

# **GENESYS**

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## Genesys Designer Quick Start Guide

Designer current

12/30/2021

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## Genesys Designer Quick Start Guide

Welcome to the Genesys Designer Quick Start Guide.

This guide introduces you to key concepts and shows you how to create your first application in Genesys Designer. You will read about the following topics:

- Developing Your First Application This page guides you through the creation of a simple voice application and helps to explain some basic concepts about Designer.
- Application Phases This page provides more details about the phases of a Designer application (Initialize, Self Service, Assisted Service, and Finalize).
- Saving and Publishing Your Application This page provides more information about the process for saving and publishing your applications.
- Tips and Tricks This page provides a handy collection of tips and tricks for getting the most out of your Designer applications.
- Bonus Example Are you up for a challenge? This page provides a more in-depth example of a Designer application. You will learn how to use features such as Shared Modules and Segmentation blocks.

#### Tip

Are you looking for the Genesys Designer Help? Click here.

## Developing Your First Application

This example will help you to develop your first application in Genesys Designer. When you are done, you can call your application to test that it works.

We'll develop the application in stages:

- 1. Saying "Hello" Create a new application that offers a simple greeting to callers.
- 2. Adding a Menu Add a menu that provides callers with the options they can select.
- 3. Using Variables Create and use variables to automate certain processes.
- 4. Enabling Retries Tell the application what to do if callers don't immediately select a menu option.
- 5. Using Recorded Audio Upload a recorded audio file, as an alternative to using Text to Speech (TTS).

Ready? Let's get started.

## Saying "Hello"

- Say "Hello"
- Add menu
- Retries
- Audio

This example will help you to create an application that says "Hello" to callers.

😂 Desi	ner Applications	Shared Mod	ules Audio Reso	ources Speech Gram	imars Analytics	Business Co	ontrols 🔻	Version: 8.5.202.71	🛓 designer_developer 🔻 🌼 🥝
	+ Add Application	<b>⊘</b> II	nport Application					Q Search	×
	Quick Filters 🏚 Sa	aurabh SMA	RT-M1						
	Name ¢	Туре	Stage	Tags	Phone Number(s) / Endpoint	Status	() Last updated	(© Last provisioned ≎	Actions
	GIR Test	Default	Develop		▲ Unassigned		Yesterday at 4:58 PM		u 😔 🧰
	Chat Test	Digital	Develop	Saurabh	▲ Unassigned ■ Manage		08/11/2017		
	Kenzie Test	IVR	Develop				08/08/2017		
	Vini Test	Default	Develop		9744 & Manage	$\bigcirc$	08/04/2017		u ⊗ u
	Tober_Gram Test	Default	Develop		8150 S. Manage		07/27/2017	07/27/2017	2 O 1
	SMART M1	Default	Develop	SMART	▲ Unassigned		07/27/2017	05/04/2017	
	Saurabh	Default	Develop		8250, 8017 C Manage		07/20/2017	07/20/2017	<b>₽</b> ⊙ <b>₽</b>
	GetTbls2a	IVR	Develop				06/14/2017		⊕ 12 ⊗ ≣

## Create a new application

Go to Applications and click Add Application.

For the Name, enter Routing. Then click Create and Open.

For this example, we can just keep the default settings. Click **Please Review All Settings and Click Here to Continue**.

The new application is created and opened for editing. You should now see the **Palette**, **Application Flow**, and **Properties** areas.

Now we can start adding some blocks to direct the application and instruct it on how to execute.

#### Add a Play Message block

#### Link to video

We want our application to play a simple greeting of "Hello" to a caller, so we'll add a **Play Message** block to the Application Flow.

Drag the **Play Message** block from the **Palette** and drop it under the **Self Service** bar. This adds the block to the **Self Service** phase of your application.

Next, configure the **Play Message** block and specify which message it is to play. Click the **Play Message** block you just dropped into your application to open the block properties to the right.

For this example, you can create a TTS (Text-to-Speech) prompt. Click **Add Prompt** to create a prompt. A table appears with options to configure your prompt:

- Type Select TTS.
- Value Enter Hello.
- Play as Select text.

### Publish and test

#### Link to video

Now you can publish and save your application. Click **Publish** in the Toolbar.

Designer will analyze your application for errors and save your changes. When it is done, the message **Application published successfully** appears above the **Publish** button.

Click **Applications** in the Navigation Bar to return to the applications list.

Next, you must assign a phone number to your application so you can call and test it. In the **Phone Number(s)** column, click **Manage**.

In the pop-up window, select a phone number.

You're almost done. Click the slider in the **Status** column to enable your application so it can receive calls.

You can now call your application and hear it say, "Hello."

**Go to the next phase** — Adding a Menu.

## Adding a Menu

- Say "Hello"
- Add menu
- Retries
- Audio

Your application can now say "Hello" to callers, but it does not yet know how to offer them a menu to determine why they have called. In this example, you will add a **Menu** block to your application.

### Add a Menu block

Select the **Menu** block in the **Palette** and drag and drop this block below the **Play Message** block that you placed earlier.

## Add DTMF Options

#### Properties - Menu



This block can be used to speak a list of choices to callers and get their selection. Based on this selection, commonly used actions can be defined in Menu option blocks. To start, select the DTMF keys you would like to use.

III DTMF Options	<ul> <li>Menu Prompts</li> </ul>	🚸 Retry Prompt	Results	Milestone
------------------	----------------------------------	----------------	---------	-----------

#### Enable menu options for DTMF keys you would like to use.

- Accept all digits
- Accept only the digits set in this variable:

DTMF Key	Speech Inputs	Enabled	Option Name
0	one		Sales
2	two	×	Customer Service
3	three		Make a Payment
4			Menu Option 4

۳

Click the **DTMF Options** tab to enable DTMF (Dual-Tone Multi-Frequency) options 1, 2, and 3. Configure them as shown (the **Speech Inputs** field is optional).

Each DTMF option that you enable is added to the **Application Flow** under the **Menu** block that you placed earlier. Also, each DTMF option uses the name that you specified in the **DTMF Options** tab.

## Add Menu Prompts

### **Properties - Menu** This block can be used to speak a list of choices to callers and get their selection. Based on this selection, commonly used actions can be defined in Menu option blocks. To start, select the DTMF keys you would like to use. 2

III DTMF C	ptions	•) Menu Prompts	Retry Prompt	💾 Results	Milestone		
Input timeout							
Wait for	5	s before assuming that no input was received.					
Specify promp	ts to play to	offer menu selection					
🗌 Disable bar	ge-in 😧						

+ Add Prompt

Type Var? Value Play as Actions
---------------------------------

#### Specify prompts to play for each enabled DTMF option

DTMF Key	Туре		Var?	Value	Play as	
0	TTS	۳		For Sales, press 1.	text	۳
2	TTS	Ŧ		For Customer Service, press 2.	text	Ŧ
3	TTS	¥		To make a payment, press 3.	text	¥
4	TTS	Ŧ			text	Ŧ

Click the **Menu Prompts** tab and configure it as shown.

## Configure DTMF Options

Application Flow Views  Actions	Properties - Sales							
➡ Initialize	Menu Option blocks can be used to specify common operations if the DTMF key associated with this option is pressed.							
? Self Service ^	Option key 1							
Play Message								
13 Menu ^	Specify block label Sales							
Sales	Specify actions in tabs holen in the Mone Ontion is selected. All these actions are optional.							
Customer Service	🛫 Call Handing 🔄 Play Audio < Playingation (A) Set Variables 🔳 Milestone							
Make a Payment	Set audio messages to play if this menu option is selected.							
C Assisted Service	🗹 Disable barge-in 🚱							
	Always play prompt and disable buffering 🚱							
Play Message	+ Add Audio Message							
✓ Finalize	Type Var? Value Play as Actions							
	TTS V Sales text V V I							

Click the **Sales** block in the **Application Flow**. Go to the **Play Audio** tab and add an **Audio Message** as shown.

Repeat this step for the **Customer Service** and **Make a Payment** blocks, replacing the prompt value with Customer Service and Make a payment, respectively.

## Publish and test

Click **Publish** to publish your application and save your changes.

Call your application to hear it say "Hello" and offer you the three menu options that you just configured.

Go to the next phase — Using Variables

## Using Variables

- Say "Hello"
- Add menu
- Retries
- Audio

Variables are a powerful tool to automate some settings in your application to accept an array of values. In this example, you will define a variable to dynamically tell callers to whom they will be transferred.

## Create a User Variable

#### **Properties - Initialize**



This block or phase is typically used to setup variables for the application and initialize them. Assign blocks can be used to calculate expressions and assign their results to variables in this phase.

👤 User Variables	🔲 System Variables
------------------	--------------------

Specify User Variables. String values must be surrounded by single quotes.

+ Add Variable

Name	Default Value	Description	Secure	Trace	Delete
TRANSFER_DEST	'the receptionist'				Ō

Click the **Initialize** phase to see its properties. In the **User Variables** tab, click **Add Variable** to add a variable TRANSFER\_DEST with a value of 'the receptionist'.

#### Tip

String values, such as the one used in this example, must use single quotation marks.

## Apply the User Variable

Now that you have a variable, you can use it to tell callers to whom they will be transferred after they select a menu option.

Drag a new **Play Message** block from the **Palette** and drop it in the **Assisted Service** phase. Select the **Play Message** block to edit its properties. Click **Add Prompt** and add a TTS following prompt with the following value: Please hold while I transfer you to.

To use the variable that you created earlier, click **Add Prompt** and add another TTS prompt, but this time enable the **Variable?** check box and select the **TRANSFER\_DEST** variable.

#### Properties - Play Message



This block is used to play audio messages. These messages can be TTS (Text to Speech), Audio Files (previously uploaded in Audio Resources page, or variables played as TTS.

Specify prompts to be played

🗹 Disable barge-in 👔

Always play prompt and disable buffering 🚱

-	۸	Ы	А	Promot
	~	u	u	FIOID

Туре		Var?	Value	Play as	Actions
TTS	٣		Please hold while I transfer you to	text 🔻	↑ ↓ 🖬
TTS	۳		TRANSFER_DEST	text •	↑↓

Select the **Sales** block and click **Set Variables**. Click **Add Assignment** and select the **TRANSFER\_DEST** variable. In the **Expression** field, enter 'a Sales associate'.

Properties - Sales			
Menu Optio	n blocks can be use	to specify common operations if the DTMF key associa	ated with this option is pressed.
Option key	1		
Specify block label		ales	
Specify actions in tabs be	low if this Menu Opt •)) Play Audio	n is selected. All these actions are optional.	ilestone
String values must be sur + Add Assignment	rounded by single qu	tes.	
Variable		Expression	Delete
TRANSCER DEST			

Repeat this step for the **Customer Service** and **Make a Payment** blocks, replacing the **Expression** value with 'Customer Service' and 'Payment Processing', respectively.

## Publish and Test

Click **Publish** to publish your application and save your changes.

Call your application to hear it say "Hello" and offer you the three menu options that you configured earlier.

Select any menu option and it will use the variable and prompts that you configured in this exercise.

**Go to the next phase** — Enabling retries.

## Enabling Retries

- Say "Hello"
- Add menu
- Retries
- Audio

Your application has come a long way from saying "Hello." It can now offer callers a menu and even play a message using the variable that you created.

However, what if you do not select a menu option right away? In this example, you will configure retry settings for callers who do not immediately choose a menu option.

Actions

Play as

## Allow Retries

#### **Properties - Menu**

1	_
2	
3	

Type

This block can be used to speak a list of choices to callers and get their selection. Based on this selection, commonly used actions can be defined in Menu option blocks. To start, select the DTMF keys you would like to use.

<ul> <li>Menu Prompts</li> </ul>	III DTMF Opt	tions	Retry Pi	rompt	💾 Results
Milestone					
Specify retry prompt to ale	ert user				
Allow retries					
Number of No Input retries	allowed	1	•		
Number of No Match retrie	es allowed	1	•		
No Input #1					
+ Add Prompt					

Play original menu prompt after this retry prompt

Var? Value

After Final No Input						
No Match #1						
+ Add Prompt						
Туре	Var?	Value	Play as	Actions		

Play original menu prompt after this retry prompt

Click the **Menu** block and open the **Retry Prompt** tab. Enable the **Allow retries** check box to enable retries. You can allow up to three retries, but for now just select **1** in the drop-down menus.

Click **No Input #1** to expand it. Enable the **Play original menu prompt after this retry prompt** check box to repeat the menu prompt if the caller does not provide an input. You could also choose to use a specific retry prompt.

Next, click **No Match #1** to expand it. Enable the **Play original menu prompt after this retry prompt** check box to repeat the menu prompt if the caller does not provide an input that matches your options. You could also choose to use a specific retry prompt.

### Publish and Test



Click **Publish** to publish your application and save your changes.

Call your application to hear it say "Hello" and offer you the three menu options that you configured earlier.

Try not entering a menu option, or entering an invalid menu option, to test the retry settings.

## Using Recorded Audio

- Say "Hello"
- Add menu
- Retries
- Audio

Your application can now greet callers and offer them a simple menu. The next step is to use recorded audio, instead of TTS, to give your application a more polished presentation. In this example, you will upload recorded audio and use it in your sample application.

The video below demonstrates the full example. See below the video for step-by-step instructions.

#### Link to video

## Add an Audio Collection

ල් Designer	Applications Shared Modules	Audio Resourc	es Speech Grammars	Analytics	Business Controls 🔻					<u>*</u> •	¢	8
1	+ Add Audio Collection				🛓 Download Template	Q Search			×			
	Quick Filters 🌣											
	Name 🗢	Cre	ating new Au	dio Coll	ection		× Action	ı				
	Callback	Name					₽	@ ⊘				
	System Resources	2 -	iting audio		Create	Create and Open						
	QA Test Tones				oreate	oreate and open	₽	@ ⊘	Î			
	Shared Resources			10/25/2017	10/25/20	17						
	Callback V2 Audio			05/31/2017	05/31/20	17	۵	@ ⊘				

Click **Audio Resources** in the Navigation Bar to open the list of Audio Collections.

The list shows collections of Audio Resources that are stored on your system. Each collection might have one or more audio resources associated with it.

Your next step is to create an Audio Collection and add an Audio Resource to it. You will use this audio resource in your application.

Click Add Audio Collection and enter Routing audio in the Name field. Click Create and Open.

## Add an Audio Resource

+ Add Audio Resource	<b>Q</b> Search	×
name	description	tags
Ні		

Click **Add Audio Resource**. A pop-up window appears and asks you to name this announcement. Enter Hi in the **Name** field and click **OK**. The **Hi** audio resource now appears in the list.

Now that you have added an audio resource to this collection, your next step is to upload an audio file.

## Upload an Audio File

Manage Languages				
+ Add Language			This a	nnouncement plays TTS only
Language	Alternate TTS Text	File		Delete
English (United States) (en-US)	• Hello	des_hi.wav	0	Þ
Save				Cancel

Select the **Hi** audio resource to view its details, which appear to the right of the Audio Resources list. At the bottom of the details section, click **Manage Languages** .

Make sure that This announcement plays TTS only is NOT selected.

Click **Add language** to select the language spoken by the audio resource. For this example, select **English (United States) (en-us)**.

Download the following sample audio file: des\_hi.wav

Click the **File** button and select the audio file you have just downloaded. A checkmark appears when the file is uploaded successfully.

Click **Save**.

## Publish the Audio Collection

් Designer	Applications Shared Modules Audio Resource	es Message Resources Speech Grammars A	analytics Business Controls 🔻	
	Audio Collections >> Routing audio			← Res >> Publish Audio Collection
	+ Add Audio Resource	Q Search	×	Audio Resource
	name	description	tags	Name
	✓ Hi			Description
				Add description
				Tags
				Add a tag
				Delete Reset Save
				🜗 Manage Languages
				Language Filename
				English (United des_hi.wav ▶ ★ States)

Audio Collections must be published before their audio resources can be used in applications.

From the Audio Resources page, click **Publish Audio Collection**. Designer will display a message when the audio collection is successfully published.

You now have an audio resource that you can use in your application.

## Add Audio to your Application

(prev	block is used iously uploa	I to play audio messages. The ded in Audio Resources page,	se messages can be TTS (T or variables played as TTS.	ext to Speech), Audio Files	3	
pecify prompts	to be played	I				
Disable barge	⊦in 😮					
🖞 Always play p	rompt and c	isable buffering 👔				
+ Add Prompt						
	Var	Value		Play as		Actions
Гуре	· cu (					

Click **Applications** in the Navigation Bar to return to the applications list.

Click the **Routing** application to open it for editing and then click **Settings**.

Go to the **Audio** tab. From the **Audio Resource Collection** drop-down list, select the **Routing audio** collection that you created in the previous step. Click **OK**.

Next, select the first **Play Message** block in your application to edit its properties.

Change the prompt **Type** to **Announcement**, and then click the **Value** field. Go to the **Routing audio** tab and select the **Hi** announcement. Click **OK**.

### Publish and Test

Click **Publish** to publish your application and save your changes.

Call your application to hear it say "Hi" with the recorded audio that you uploaded in this example.

#### Next steps

Congratulations, you have created your first application in Genesys Designer.

The next pages will explain application structure and configuration so you can create more

applications that suit your business needs.

You can also refer to the Bonus Example page to learn more about advanced topics such as shared modules and segmentation.

## Application Phases



As you have been developing your application, you might have noticed that there are several blocks that are common to each application. These blocks are known as phases, and they divide your application as follows:

- **Initialize** This phase initializes application variables and parameters to use when the application executes.
- **Self Service** This phase hosts blocks that provide automated interaction with the caller via speech and/or DTMF.
- Assisted Service This phase hosts blocks that route the call to a live agent, if necessary.
- Finalize This phase provides post-processing and call termination after the call has been serviced.

To learn more about application phases, refer to the Genesys Designer Help.

## Saving and Publishing Your Application

It is a good idea to manually save your work often, especially after you have made important changes. If you forget to save, Designer periodically saves a temporary backup of your work.



Click **Save Flow** to save your application. This action saves your work and performs some validation checks on your application. If no problems are found, a green check mark appears beside the **Validation Status** field. Otherwise, if problems are found, a warning icon appears beside the **Validation Status** field. You can click the warning icon to display the list of warnings.

When you are ready to test and deploy your application, click **Publish**. Designer performs another validation test on your application and, if no errors are found, it generates the code that will run on Genesys platforms.



#### Validation Issues

If errors are found in your application, you can click the red exclamation icon beside the **Validation Status** field to display the **Validation Issues** list.

Validation Status: 🛕	Settings	省 Save Flow	>+ Publish
Click to show validation	on warnings.		

The **Validation Issues** list displays warnings in yellow and errors in red. Code generation can complete if warnings are present, but fails if errors exist.

Click a warning or error to return to the block containing the issue and address the problem.

Validation Status: 🛕	Settings	省 Save Flow	>→ Publish
	v	alidation Issues	×
ation and initialize them. results to variables in this		Assign - Initializa No assignments no functions are defin block	tion A or sort ed in this
		Main - Service A Prompts: Prompts not be empty	should
Dele	ete	Service - Battery Prompts: Prompts not be empty	A should
• •	i	Service - Electron Prompts: Prompts not be empty	nic 🛕 should

## Tips and Tricks

### Blocks

#### **Block Actions**

• Hover over a block to expose icons that allow you to interact with the block.



- As your application grows, you might want to rename blocks to describe which function they provide. For example, if you have several **Play Message** blocks, you might want to rename each one to describe which message they play. To do so, hover over a block and click the pencil icon to edit the block name.
- You can drag and drop blocks around the **Application Flow** to change the order in which they execute. You can also click the up and down arrows to move their position within the **Application Flow**.
- Click the trash icon to delete the block.

#### Parent/Child Blocks

• Some blocks might have several child blocks. In the parent block, you can click  $\uparrow$  or v to hide or expand the list of child blocks.



• Be careful when manipulating a parent block, as your action might also affect its child blocks. For example, if you delete a parent block, all of its child blocks are also deleted.

### Shared Modules

• Do you often use a common structure in your applications? Instead of building this common structure in each application, you can define a shared module to host the common structure. Then you can simply use the Shared Module block to place this common structure in each application. If you make a change to the shared module, each application receives the update instantly.

## Bonus Example

Now it's time to apply all of the knowledge you have learned so far. This example uses **Menu**, **Segmentation**, and **Shared Module** blocks to demonstrate how you can use Genesys Designer to create an application for a pizzeria.

#### Tip

This example aims to help you demonstrate what you have learned so far. Therefore, it does not provide you with step-by-step instructions for each task. If you think you need extra help, click **[+] Show Tip** to see the steps that you need to do.

## Play Greeting

First, let's play a greeting for the caller. Click and drag the **Play Message** block from the **Palette** to the **Application Flow** and drop it in the **Self Service** phase.

Next, let's configure the block to play a greeting. Ensure the **Play Message** block is selected and go to the block properties section to the right of the **Application Flow**. Click **Add Prompt** and configure a TTS prompt that will say "Welcome to Pizza Palace!"

#### [+] Show Tip

- Type TTS
- Variable? Disabled
- Value Welcome to Pizza Palace!
- Play as text

As we might add several **Play Message** blocks to our application, it is a good practice to rename the block to describe what it does. In this case, let's rename the block to Play Greeting.

#### [+] Show Tip

To rename a block, hover over it and click the pencil icon to display a text

field.

## Pizza Size Menu

Now let's ask the caller to specify a pizza size. Add a **Menu** block below the **Play Greeting** block. Rename the block to Pizza Size Menu. Ensure the **Pizza Size Menu** block is selected and go to the block properties to configure the block to provide the following functions:

- Play a prompt that asks the caller to choose a size.
- Use DTMF Options to input a size:
  - 1 Small
  - 2 Medium
  - 3 Large
- Use Retry Prompt to allow two No Match events and one No Input event. After each event, the caller
  is asked to "Please try again" and the menu options are repeated.
- Store the outcome of the interaction in two variables: pizza\_size and menu\_result.

- 1. In the **Menu Prompts** tab, click **Add Prompt** and configure the prompt as follows:
  - Type TTS
  - Variable? Disabled
  - **Value** What size pizza would you like? For Small, press 1. For Medium, press 2. For Large, press 3.
  - Play as text
- 2. In the **DTMF Options** tab, enable DTMF keys **1**, **2**, and **3** and name them Small, Medium, and Large, respectively.
- 3. In the **Retry Prompt** tab, enable the **Allow retries** check box and configure the retries as follows:
  - Number of No Input retries allowed 1
  - Number of No Match retries allowed 2
  - No Input #1 Click Add Prompt and add a TTS prompt with the value of Please try again. Enable the Play original menu prompt after

this retry prompt check box.

- After Final No Input Skip.
- No Match #1 Click Add Prompt and add a TTS prompt with the value of Please try again. Enable the Play original menu prompt after this retry prompt check box.
- No Match #2 Click Add Prompt and add a TTS prompt with the value of Please try again. Enable the Play original menu prompt after this retry prompt check box.
- After Final No Match Skip.
- 4. Click the **Initialize** phase and add the following variables: pizza\_size and menu\_result. Do not provide a default value.
- 5. Click the **Pizza Size Menu** block to and then click the **Results** tab. Configure the tab as follows:
  - Store user entered digits in this variable pizza\_size
  - Store the outcome of the user interaction in this variable menu\_result

### Save and Validate

It is a good idea to save often (although Designer will periodically save a temporary version of your application automatically). Click **Save Flow**.

Designer saves your application, but it also displays a warning icon beside **Validation Status** to indicate that it has found warnings or errors with your application. This is expected, as the application is not yet complete.

Click the warning icon to view the warnings.

Validation Issues



The warnings indicate that each of our menu options do not provide a prompt. Let's take a closer look and investigate these warnings. You can click the warning to open the block to which the warning refers. For now, let's look at these blocks in the **Application Flow**.

1	<b>P</b> i	zza Size Menu	^
		Small	
		Medium	
		Large	

Click the Small block and view its properties. Click the Play Audio tab and add a TTS prompt with the value You chose small. Add similar prompts to the Medium and Large blocks.

Next, click **Save Flow**. You have fixed the warnings, and a green check mark is displayed by Validation Status.

#### Testing

Like saving, it's a good idea to regularly test your application to ensure it is working as you intend. Click **Publish**.

In the navigation bar, click **Applications** to return to the applications list. In the **Phone Number(s)** column, click Manage and assign a phone number to your application. Finally, click the Status slider to enable your application.

That's it—give your application a call and test it to ensure it is working.

## Time to Segment

We now have a simple application to determine the pizza size that the customer wants, but what happens next? Let's add an option to let the customer choose toppings for the pizza. Also, just in case the caller was not successful in making a size selection, let's add an option to transfer to a live operator.

So, after the **Pizza Size Menu** blocks, we need to branch into two different paths, depending on whether or not the caller gave a valid response at the menu.

Add a **Segmentation** block after the **Pizza Size Menu** blocks. When done, check to see if the **Segmentation** is indented to the right of **Pizza Size Menu** parent block. What happened? Now is a good time to review layers. Click **[+] Show Tip** below to see how to fix this problem. Or, if you know how to resolve this problem, skip ahead to continue with this example.

#### [+] Show Tip

First, look at how the blocks are indented underneath the **Pizza Size Menu** block. The **Application Flow** uses indentation to indicate that these blocks are child blocks of the parent block. In other words, the child blocks are contained within the parent block, and the child blocks are only executed if the parent block is executed.

You can also determine that a block has sub-blocks by looking at the ^ or v icons on its right edge. Notice that both the **Pizza Size Menu** block and the **Self Service** blocks have these icons, which means you can show or hide the blocks within.

If you move a parent block, its child blocks move with it. If you delete a parent block, its child blocks are also deleted.

However, we do not want the **Segmentation** block to be a child block of the **Pizza Size Menu** block. We have two options to resolve this situation:

- Hover over the **Segmentation** and click the left-arrow icon to move this block up a layer.
- Delete the Segmentation block block, then click the ^ icon beside the Pizza Size Menu block to hide its child blocks. Now you can add the Segmentation block to your application on the same layer as the Pizza Size Menu block.

➡ Initialize	
<b>?</b> Self Service	^
Play Greeting	
<sup>1</sup> / <sub>3</sub> Pizza Size Menu	~
Segmentation	∕ → ↑ 💼
Assisted Service	
✓ Finalize	

Change the name of the **Segmentation** block to Size result. Next, go to the block properties. In the **Conditions** tab, click **Add Condition** to create a branch under this Segmentation block. Change the name of the condition from Segment to Size Error. For Condition Expression, enter menu\_result.success == false.

Segment Label	Condition Expression	Delete
Size Error	menu_result.success == false	â

This expression refers to the **menu\_result** variable that we used to store the outcome in the **Pizza Size Menu** block. If its success element is false, it means the customer exited the menu due to a noinput or no-match error, and the application did not receive a valid response from the customer. In this case, the expression evaluates to true, and the application executes the **Size Error** block. If the application did receive a valid response from the customer, the application executes the next block after the **Size Result** block and its child blocks (we are adding more blocks to the **Size Result** block a little later).

Click the **Size Error** block in the **Application Flow** to select it and display its properties. Click the **Navigation** tab near the bottom. In the drop-down menu, choose the **Assisted Service** phase. The application now skips directly to the **Assisted Service** phase whenever there is an error result from the **Pizza Size Menu** block.

Milestone 🤇 🕻 🕺 🗮

Choose a targe	et block if redirecting:	
choose a	block	•
choose a Play Greetir Pizza Size M Size result	block Ig Aenu	
Assisted Se	rvice	
Finalize		

Did you notice that when you set the **Navigation** property, Designer applied a blue bar to the right edge of the **Size Error** block in the **Application Flow**? This indicates that the block contains a *Go To* command, which means it jumps to a specific location after executing, rather than continuing with the normal top-down execution flow.

Size Error		

Click **Save Flow** to save your work. Designer displays the following validation warning: **Expression may have undefined reference: "success"**.

Designer tracks that you have created variables, but it does not track which types of objects are stored in them. As a precaution, it warns you if it detects expressions that reference elements of variables.

It is always important to pay attention to validation warnings. However, some of them (such as this example) can be safely ignored once you have verified that your logic is correct.

### Routing to an Agent

If the **Self Service** phase cannot handle the call, the application proceeds to the **Assisted Service** phase and it can transfer the call to an agent.

Drag and drop a **Route Call** block under the **Assisted Service** phase.



The **Route Call** block can provide several types of routing, such as skills-based routing, Agent Group routing, routing by priority ranking, and more. For this example, select **Direct number routing**. You could enter a phone number in the **Number** field, but for this example we will create a User Variable, **routing\_number**, to hold the number. The default value of this variable must be a number that you

can use to test the routing function.

#### [+] Show Tip

- 1. In the **Application Flow**, select the **Initialize** phase and view its properties.
- 2. In the User Variables tab, click Add Variable.
- 3. In the **Name** field, enter routing\_number.
- 4. In the **Default Value** field, enter a test phone number that you can use to test the application.

#### Tip As this is a string, you must include the value in single quotation marks. For example: '180055555555'.

Ensure you have selected the **routing\_number** variable for the **Direct number routing** option in the **Route Call** block. Next, go to the **Routing Priority** tab and disable the **Use Priority during Routing** check box, as we are not using this feature for this example.

#### Tip

You could add more numbers to the **Direct number routing** list by clicking **Add Number**. Then, you could weight them to control the percentage of calls that go to each number.

We are almost done. However, before we route the call, we should play a message to the caller to let them know that we are transferring the call. We do not use the options in the **Play Audio** tab of the **Route Call** block for this function, because those options are used for audio that loops while the caller is being transferred (hold music).

Add a **Play Message** block at the beginning of the **Assisted Service** phase, before the **Route Call** block. Change the block name to Announce Transfer and have it play this TTS prompt: "Please hold while we transfer your call."

### [+] Show Tip

1. In the Application Flow, select the Announce Transfer block and view its

properties.

- 2. Click **Add Prompt** and configure the prompt as follows:
  - Type TTS
  - Variable? Disabled
  - Value Please hold while we transfer your call
  - Play as text

Click **Save Flow** to save your work. Designer displays the following new validation warning: "Prompts should not be empty."

In this case, the warning refers to the **Play Audio** tab of the **Route Call** block. It is not always necessary to enter a prompt for every audio property slot. If you determine that it is best for your application design to leave some of these slots empty, you can safely ignore the resulting warnings.

## Adding a Shared Module

Let's add a shared module to offer the caller a menu of specialty pizzas. As you might recall, shared modules are small pieces of applications that you can use in one or more applications.

Click **Shared Modules** in the navigation bar to open the list of shared modules. Next, click **Add Module** and create a module named Specialty Pizza Menu and set its type to **Self Service**, since it will use Self Service functionality that we will include in the **Self Service** phase of our application. Click **Create and Open** to create the shared module and open it for editing.

Creating new Shared Module		
Name		
Specialty Pizza Menu		
Туре		
Self Service		,
Cancel	Create	Create and Open

The edit window for shared modules looks similar to the application editing window, except that the **Application Flow** contains only two phases: **Initialize** and **Self Service**. This is because we chose **Self Service** as the type for this shared module; if we selected **Assisted Service**, the **Application Flow** would contain only **Initialize** and **Assisted Service** phases.

You build a shared module in a manner similar to how you build an application:

- Drag blocks from the **Palette** and drop them into the **Application Flow**.
- Edit block properties.
- Rearrange blocks to suit the execution order in the **Application Flow**, which is usually from top to bottom.

Usually, when you call a shared module from within an application, your application passes some input parameters to the shared module. After the shared module finishes executing, the application receives some output parameters. You define these input and output parameters in the **Initialize** phase of your shared module.

For our **Specialty Pizza Menu** shared module, the application will pass in the size of pizza that the caller selected. Then the module will present a menu of choices (for example: plain cheese, meat lovers, and so on) and will return the selection back to the application. It will also return a flag to indicate whether the caller made a valid choice in the shared module.

#### Input/Output Parameters

First, let's define our input/output parameters. Select the **Initialize** phase and view its properties. Let's create one input and two output parameters, and one more parameter to store the result of the interaction. In the **User Variables** tab, click **Add Variable** four times to create four variables.

Each variable has two check boxes, **In** and **Out**. This specifies whether the variable is used for input or output.

Configure the four variables as shown below:

#### **Properties - Initialize**



This block or phase is typically used to setup variables for the application and initialize them. Assign blocks can be used to calculate expressions and assign their results to variables in this phase.

👤 User Variables 🛛 🗔 ICM Variables 🛛 📾 System Variables

opeoing over runableo, ouning rundeo maos be ouniounded by guote	Specif	v User	Variables.	String	values	must	be	surrounded	b	v qu	otes
--	--------	--------	------------	--------	--------	------	----	------------	---	------	------

+ Add Variable

Name	In	Out	Default Value	Delete
pizza_size	1		"	â
pizza_type				â
success			false	â
menu_outcome				Ŵ

Next, let's create a menu for the shared module to present to the caller.

#### Toppings Menu

Add a **Menu** block to the **Self Service** phase and rename it to Toppings Menu. Configure it as shown below:

#### **Properties - Toppings Menu**



This block can be used to speak a list of choices to callers and get their selection. Based on this selection, commonly used actions can be defined in Menu option blocks. To start, select the DTMF keys you would like to use.

<b>III</b> DTMF Options	Menu Prompts	🔹 Retry Prompt	💾 Results	Milestone
-------------------------	--------------	----------------	-----------	-----------

v

Enable menu options for DTMF keys you would like to use.

Accept all digits

Accept only the digits set in this variable:

DTMF Key	Speech Inputs	Enabled	Option Name
0	Plain Cheese		Plain Cheese
2	Meat Lovers		Meat Lovers
3	Veggie Supreme		Veggie Supreme

#### Properties - Toppings Menu This block can be used to speak a list of choices to callers and get their selection. Based on this selection, commonly used actions can be defined in Menu option blocks. To start, select the DTMF keys you would like to use. DTMF Options •) Menu Prompts Retry Prompt FI Results Milestone Input timeout 5 s before assuming that no input was received. Wait for Specify prompts to play to offer menu selection 🗌 Disable barge-in 🚱 + Add Prompt Туре Var? Value Play as Actions Ŧ What kind of TTS text ۳ ≁ 🔸 💼 v v v Ŧ TTS pizza\_size text ተ v pizza would you like? v TTS text v For Plain Cheese, press 1 v TTS text ۳ For Meat Lover's, press 2 v TTS text TTS v For Veggie Supreme, press 3 ٧ text

n

Ô

#### Properties - Toppings Menu

4	
1	
2	
-	

This block can be used to speak a list of choices to callers and get their selection. Based on this selection, commonly used actions can be defined in Menu option blocks. To start, select the DTMF keys you would like to use.

DTMF Options	<ul> <li>Menu Prompts</li> </ul>	Re	etry Prompt	💾 Results	Milestone
Specify retry prompt to al ✓ Allow retries	lert user				
Number of No Input retrie	es allowed	1	Ŧ		
Number of No Match retr	ies allowed	1	v		
No Input #1					

+	Ad	d	Pr	om	pt
---	----	---	----	----	----

Туре	Var?	Value	Play as	Actions
TTS T		Please try again.	text •	↑ ↓ 🖬

Play original menu prompt after this retry prompt

After Final No Input	
No Match #1	

+ Add Prompt				
Туре	Var?	Value	Play as	Actions
TTS 🔻		Please try again.	text 🔻	↑ ↓ 📋

Play original menu prompt after this retry prompt

Propertie	es - Toppings M	lenu			
	This block can this selection, the DTMF keys	be used to speak a list of o commonly used actions ca you would like to use.	choices to callers and ge n be defined in Menu op	t their selection. Ba tion blocks. To star	ased on rt, select
III DT	MF Options	•)) Menu Prompts	Retry Prompt	🖰 Results	Milestone
Store us	er entered digits	in this variable			
cho	ose variable	T			
Store the	e outcome of the	user interaction in this var	iable		
menu	_outcome	•			
The form	nat of the outcon	ne variable will be an objec	t with the contents:		

- <var>.lastAttemptCount = 3
- <var>.lastAttemptType = "NO\_INPUT" | "NO\_MATCH"

You might have noticed that we did not assign a variable to the **Store user entered digits in this variable** menu, as we do not need to store which key the caller pressed. Instead, we will store a readable string in the **pizza\_type** variable that can be passed back to the application.

Click the **Plain Cheese** block and view its properties. Click the **Set Variables** tab, and then click **Add Assignment**. Select the **pizza\_type** variable and enter 'plain cheese' in the **Expression** field. This sets the **pizza\_type** variable to the string 'plain cheese' whenever the caller selects option 1 at this menu.

Repeat the above steps for the **Meat Lovers** and **Veggie Supreme** blocks and and use the strings 'meat lovers' and 'veggie supreme', respectively. If you need help, click **[+] Show Tip** below.

this option is press	is can be used to specify common operations if the DTMF sed.	key associated wit
Option key	1	
Specify block label	Plain Cheese	
Specify actions in tabs belo	w if this Menu Option is selected. All these actions are opti	onal.
ድ Call Handling 🕠	) Play Audio 🛛 - 🕻 Navigation 🛛 (A) Set Variab	oles
Milestone		
+ Add Assignment		
Variable	Expression	Delete
pizza_type roperties - Meat Lovers Menu Option block this option is pres	'plain cheese'      secan be used to specify common operations if the DTMF ised.	key associated wit
pizza_type roperties - Meat Lovers Menu Option block this option is press Option key	'plain cheese'      sec an be used to specify common operations if the DTMF is a sec of the determined of the DTMF is a sec of the determined of the de	key associated wit
pizza_type roperties - Meat Lovers Menu Option block this option is press Option key Specify block label	<ul> <li>'plain cheese'</li> <li>ss can be used to specify common operations if the DTMF</li> <li>2</li> <li>Meat Lovers</li> </ul>	key associated wit
pizza_type roperties - Meat Lovers Menu Option block this option is press Option key Specify block label Specify actions in tabs belo	<ul> <li>'plain cheese'</li> <li>As can be used to specify common operations if the DTMF is sed.</li> <li>2</li> <li>Meat Lovers</li> <li>w if this Menu Option is selected. All these actions are option</li> </ul>	key associated wit
pizza_type  roperties - Meat Lovers  Menu Option block this option is press  Option key  Specify block label  Specify actions in tabs belov  Call Handling	<ul> <li>v 'plain cheese'</li> <li>cs can be used to specify common operations if the DTMF is sed.</li> <li>2</li> <li>Meat Lovers</li> <li>w if this Menu Option is selected. All these actions are option</li> <li>play Audio - Navigation (A) Set Variab</li> </ul>	key associated wit
pizza_type  roperties - Meat Lovers  Menu Option block this option is press  Option key  Specify block label  Specify actions in tabs belo  Call Handling  Milestone	<ul> <li>v 'plain cheese'</li> <li>cs can be used to specify common operations if the DTMF is sed.</li> <li>2</li> <li>Meat Lovers</li> <li>w if this Menu Option is selected. All these actions are option</li> <li>(A) Set Variab</li> </ul>	key associated wit
pizza_type  roperties - Meat Lovers  Menu Option block this option is press  Option key  Specify block label  Call Handling  Milestone + Add Assignment	<ul> <li>'plain cheese'</li> <li>ts can be used to specify common operations if the DTMF is sed.</li> <li>2</li> <li>Meat Lovers</li> <li>w if this Menu Option is selected. All these actions are option</li> <li>) Play Audio &lt; Navigation (A) Set Variab</li> </ul>	key associated wit
pizza_type  roperties - Meat Lovers  Menu Option block this option is press  Option key  Specify block label  Call Handling  Milestone + Add Assignment  Variable	<ul> <li>'plain cheese'</li> <li>ts can be used to specify common operations if the DTMF is sed.</li> <li>Meat Lovers</li> <li>Wif this Menu Option is selected. All these actions are option</li> <li>Play Audio &lt;\$ Navigation (A) Set Variab</li> <li>Expression</li> </ul>	key associated wit onal. des Delete

this option is pre	essed.	ociated w
Option key	3	
Specify block label	Veggie Supreme	
Specify actions in tabs be	low if this Menu Option is selected. All these actions are optional.	
Specify actions in tabs be	Image: Selected with the selected w	
Specify actions in tabs be Call Handling Milestone + Add Assignment	elow if this Menu Option is selected. All these actions are optional. •)) Play Audio - Analysis (A) Set Variables	
Specify actions in tabs be Call Handling Milestone + Add Assignment Variable	elow if this Menu Option is selected. All these actions are optional.          •) Play Audio	Delet

#### Return Block

Next, we need a **Return** block to tell the shared module to exit and return to the application. We can also use the **Return** block to assign values to any output variables that have not been updated.

#### Tip

A shared module also returns to the application automatically when it reaches the end of its flow, even if there is no **Return** block.

Place a **Return** block at the bottom of the **Application Flow**.

#### [+] Show Tip

When you add the **Return** block to the **Application Flow**, you might only be able to place the block in an indented position underneath the **Veggie Supreme** block. If so, hover over the block to make its editing icons appear on its right side, then click the green left-arrow icon to move the block to the left. This puts the **Return** block at the same level as the **Toppings**  Menu block, so that it executes after any Toppings Menu result.

In the **Return** block's properties, click **Add Assignment** and choose the output variable **success**. Assign it the following expression value: menu outcome.success.

#### **Properties - Return**



This block is used to return out of the current shared module, and back to the calling application or module.

This block returns out of the shared module, back to the calling application or module.

#### Assign Values to Output Variables (Optional)

+ Add Assignment

Variable	Expression	Delete
success •	menu_outcome.success	Ē

#### Saving and Versioning

Click **Save Flow** to save your work. Designer will identify validation errors, but you can ignore those for now.

You might also notice another button named **Create Version**. You click **Create Version** when you want to publish the final version of your shared module. If necessary, you can develop and publish several different versions of a shared module, and your various applications could each use different versions, or the same version, as appropriate.

#### Adding the Shared Module to the Application

Now that you have a shared module, let's put it in your application.

Click **Applications** in the navigation bar and click the name of your application to open it for editing.

Drag the **Shared Module** block onto the **Application Flow** and drop it beneath the **Size Result** block. If it ends up indented under the **Size Error** block, click its left-arrow icon to move it to the left, so it is in line with the **Size Result** block.

Next, view the properties of the **Shared Module** block and use the drop-down menu to select the **Specialty pizza menu** shared module. When you select a shared module, a list of its published versions appears below. Select the version that we created in the previous step (**Cheese, meat, or**)

#### veggie).

### [+] Show Tip

<u> </u>	This block can be	used to invoke	a shared module.	
□ Mo	dule 🗖 Sigi	nature		
	Shared Module	s	<ul> <li>Templates</li> </ul>	
Select a r	nodule:			
Specia	alty Pizza Menu			
	Version 🗢	Label	Note	Created 🗢
$\bigcirc$		Latest	Use latest unpublished save.	Today at 2:41 PM

The **Signature** tabs let you set up the parameters of the shared module. As you recall, we designed the shared module to do the following:

- Input
  - **pizza\_size** Holds a string value for pizza size.
- Output
  - **success** Holds a Boolean value to indicate whether a valid selection was made.
  - **pizza\_type** Holds a string value to describe which type of pizza was selected (if any).

We need to create new variables to hold these values. In the **Application Flow**, click the **Initialize** phase and view its properties. Add two new User Variables: pizza\_size\_str, and pizza\_type\_str. Set both default values to empty strings (''). To hold the Boolean return value, we can reuse the **menu\_result** variable.

Assign blocks phase.	phase is typically used to setup variables for the ap can be used to calculate expressions and assign	oplication and initialize them. their results to variables in this
Luser Variables	System Variables	
Specify User Variables.	String values must be surrounded by quotes.	
+ Add Variable		
Name	Default Value	Dele
pizza_size		
· -		
menu_result		Ī
menu_result		
menu_result routing_number pizza_size_str		

Select the **Shared Module**' *and click its* **Signature** tab. Select **Input Parameters** and set the default value of the **pizza\_size** input parameter to the variable **pizza\_size\_str**.

Next, select **Output Parameters** and assign the **pizza\_type** output to the **pizza\_type\_str** variable, and assign the **success** output to the **menu\_result** variable.

Properties - Shared Module		
This block can be us	sed to invoke a shar	red module.
٢		
🗖 Module 🎽 Input	■ Output	
	output	
Name	Variable?	Input Value
Name pizza_size	Variable?	pizza_size_str

This block can be t	used to invoke a shared module.
🗖 Module 🎽 Inpu	t <sup>K</sup> Output
Name	Assign to
ninga tuna	pizza_type_str
pizza_type	

Next, we need to assign the proper string values to the **pizza\_size\_str** variable. For each **Small**, **Medium**, and **Large** block, click the **Set Variables** tab and assign the **pizza\_size\_str** variable to the value small, medium, or large, respectively.

Menu Option blo this option is pre	ocks can be used to specify common operations if the DTMF key associates and the DTMF key associates and the second s	ated wit
Option key	1	
Specify block label	Small	
Specify actions in tabs be	low if this Menu Option is selected. All these actions are optional.	
Specify actions in tabs be	Iow if this Menu Option is selected. All these actions are optional.•) Play Audio	
Specify actions in tabs be Call Handling Milestone + Add Assignment	low if this Menu Option is selected. All these actions are optional. •) Play Audio - Navigation (A) Set Variables	
Specify actions in tabs be Call Handling Milestone + Add Assignment Variable	Iow if this Menu Option is selected. All these actions are optional.         •) Play Audio	Delete

Menu Option blo this option is pr	ocks can be used to specify common operations if the DTM essed.	IF key associated wit
Option key	2	
Specify block label	Medium	
Specify actions in tabs be	low if this Menu Option is selected. All these actions are o	ptional.
ድ Call Handling	•)) Play Audio - 🕻 Navigation (A) Set Vari	ables
Milestone		
+ Add Assignment		
Variable	Expression	Delete
pizza_size_str roperties - Large Menu Option blo this option is pre	'medium     cks can be used to specify common operations if the DTM     ssed.	F key associated with
pizza_size_str roperties - Large Menu Option blo this option is pre Option key	'medium     cks can be used to specify common operations if the DTM     ssed.	F key associated with
pizza_size_str roperties - Large Menu Option blo this option is pre Option key Specify block label	medium cks can be used to specify common operations if the DTM essed. 3 Large	F key associated with
pizza_size_str roperties - Large Menu Option blo this option is pre Option key Specify block label Specify actions in tabs be	Image of this Menu Option is selected. All these actions are option	F key associated with
pizza_size_str roperties - Large Menu Option blo this option is pre Option key Specify block label Specify actions in tabs be Call Handling	'medium!         cks can be used to specify common operations if the DTM         3         J         Large         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions         Iow if this Menu Option is selected. All these actions         Iow if this Menu Option is selected. All these actions         Iow if this Menu Option is selected. All these actions         Iow if this Menu Option is selected. All these actions         Iow if this Menu Option is selected. All these actions acting these acting th	F key associated with
pizza_size_str roperties - Large Menu Option blo this option is pre Option key Specify block label Specify actions in tabs be Call Handling Milestone	'medium!         cks can be used to specify common operations if the DTM         3         J         Large         Iow if this Menu Option is selected. All these actions are operations         Iow if this Menu Option is selected. All these actions are operation         Iow if this Menu Option is selected. All these actions are operation         Iow if this Menu Option is selected. All these actions are operation         Iow if this Menu Option is selected. All these actions are operation         Iow if this Menu Option is selected. All these actions are operation         Iow if this Menu Option is selected. All these actions are operation         Iow if this Menu Option         Iow	F key associated with
pizza_size_str  roperties - Large  Menu Option blo this option is pre  Option key  Specify block label  Call Handling  Milestone + Add Assignment	Image in this Menu Option is selected. All these actions are operation in the image is a constrained of the image is a con	F key associated with
pizza_size_str  roperties - Large Menu Option blo this option is pre Option key Specify block label  Specify actions in tabs be Call Handling Milestone + Add Assignment Variable	'medium!         cks can be used to specify common operations if the DTM         3         3         Large         low if this Menu Option is selected. All these actions are op         •) Play Audio       -< Navigation (A) Set Variation	F key associated with ptional. ables Delete

Finally, change the **Shared Module** block name to something more descriptive, such as Toppings

Module.

## Handling the Result

Our application is taking shape. Next, we need to consider what happens when the caller returns from the **Toppings Module**.

	Toppings Module	
🔁 A	ssisted Service	^
•	Announce Transfer	
Ω	Route Call	

Let's look at the **Application Flow**. After the caller exits the **Toppings Module** block, he will enter the **Assisted Service** phase and be unnecessarily transferred to an agent, even if he made a successful order selection in the **Self Service** phase.

We need to add the following functions:

- If the **Toppings Module** returns an error, the caller is directed to the **Assisted Service** phase so they can speak to an agent.
- If the **Toppings Module** returns a valid result, the order is considered complete and we play a wrap-up message to the caller and end the call.

To accomplish this, add a **Segmentation** block below the **Toppings Module** block. Change the name of this **Segmentation** block to **Toppings Result**.

In the **Toppings Result** block properties, add two conditions:

- **Toppings error** menu\_result == false (This condition executes if the caller did not give a valid response in the shared module.)
- Order complete true

This block is used outcome. E.g var2	sult d to evaluate expressions and take different paths in ZipCode==94014 can be used to take a different path	the application based on ti vs varZipCode==95125.
•) Conditions 📕 + Add Condition	Milestone	
Segment Label	Condition Expression	Delete
Toppings error	menu_result == false	ā

When a **Segmentation** block is executed, its conditions are evaluated in order from the top. The first condition that is satisfied is executed, and no further conditions are evaluated. In our **Toppings Result** block, if the first condition evaluates to true, **Toppings error** is executed. Otherwise, the next condition is evaluated. In our case, we want the last condition to execute whenever it is reached, so we set the expression to true.

In the **Toppings Error** block, click the **Navigation** tab and set the target block to **Assisted Service**. This transfers the call to an agent.

In the **Order complete** block, we want to play a message and then end the call. Place a **Play Message** block under the **Order complete** block so that it is indented inside that block. Next, place a **Terminate Call** block under the **Play Message** block so that it is lined up at the same indentation level as the **Play Message** block. Since these two blocks are indented blocks (child blocks) underneath the **Order complete** block (parent block), they execute in top-down order only if the **Order complete** block executes.

Order complete				
	۶	Play Message		
	8	Terminate Call		

Configure the **Play Message** block as shown below:

#### Properties - Play Message

This block is used to play audio messages. These messages can be TTS (Text to Speech), Audio Files (previously uploaded in Audio Resources page, or variables played as TTS.

#### Specify prompts to be played

+ Add Prompt				
Туре	Var	? Value	Play as	Actions
TTS	•	OK, your	text	↑ ↓ 🖬
TTS	•	pizza_size_str	▼ text ▼	↑ ↓ 🖬
TTS	•	pizza_type_str	▼ text ▼	↑ ↓ 🖬
TTS	•	pizza will be ready in 15 minutes.	text	↑ ↓ <b>i</b>
TTS	•	Thank you. Goodbye!	text	↑ ↓ 💼

The **Terminate Call** block has no property settings - it signals the application to jump to the **Finalize** phase. You might notice that the **Terminate Call** block has a red bar on its right edge, to indicate that it causes the call to end, bypassing any blocks that might be below it.

Click **Publish** and call your application to test it.

## Applying What You Have Learned

You now have a solid foundation for understanding how to use Genesys Designer to build and deploy voice applications.

Refer to the Designer Help to learn more about blocks, Shared Modules, Audio Resources, and more.