HowlOnDemand Black Box Test Plan

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Introduction

HowlOnDemand is a music streaming service for NCSU students. This test plan focuses on the basic functionality of the program regarding startup and selecting stations. The program is started by running the HowlOnDemandGUI.java file. The program should immediately take the user to the station selection screen, unless there is an issue with reading in the XML file, in which case an error message is displayed and the application quits. The station selection screen displays a 3 x 3 grid of colored rectangular buttons that correspond to the available stations to select.

Test ID	Description	Expected Results	Actual Results
testProgramStartup	Preconditions:	The program starts and	The program starts and
(Noah Benveniste)	None	the user is immediately	the user is immediately
		brought to the station	brought to the station
	Run HowlOnDemandGUI.java	selection screen and is	selection screen and is
	Charles II.	shown a 3 x 3 grid	shown a 3 x 3 grid
	Check results	containing buttons that each correspond to a	containing buttons that each correspond to a
		station that can be	station that can be
		selected.	selected.
testSelectStation	Preconditions:	The user is brought to	The user is brought to
(Noah Benveniste)	testProgramStartup has passed	the "now playing view"	the "now playing view"
		in which the following	in which the following
	Run HowlOnDemandGUI.java	is displayed: buttons	is displayed: buttons
	Select the button in the upper right	for stop, play, next, back, shuffle and	for stop, play, next, back, shuffle and
	corner of the station selection menu	repeat are on the	repeat are on the
	(should be labeled as "Driving")	bottom of the window	bottom of the window
	(**************************************	as well as the name and	as well as the name and
	Check results	artist of the current	artist of the current
		song playing:	song playing:
		Artist:	Artist:
		Bruce Springsteen	Bruce Springsteen
		Brace springsteen	Brace springsteen
		Song title:	Song title:
		Born to Run	Born to Run
		In the center of the	In the center of the
		screen an audio	screen an audio
		visualizer displays the	visualizer displays the
		waveform of the song;	waveform of the song;
		in the top-left corner of	in the top-left corner of
		the window, the	the window, the
		current station name is displayed ("Driving" in	current station name is displayed ("Driving" in
		this case) as well as a	this case) as well as a
		button that allows the	button that allows the
		user to return to the	user to return to the
		station selection menu.	station selection menu.

testBackToStationSelect	Preconditions:	The user is brought	The user is brought
(Noah Benveniste	testProgramStartup and	from the Driving	from the Driving
	testSelectStation have passed	station play window	station play window
		back to the station selection menu	back to the station
	Run HowlOnDemandGUI.java	selection menu	selection menu
	Nan Flowion Bernand Got. Java		
	Select the button in the upper right		
	corner of the station selection menu		
	(should be labeled as "Driving")		
	Select the button in the top left corner		
	of the screen		
	Check results		
testPlayNextSong	Preconditions:	Initially, Born to Run by	Initially, Born to Run by
(Noah Benveniste)	testProgramStartup and	Bruce Springsteen is	Bruce Springsteen is
	testSelectStation have passed	playing from the	playing from the beginning
	Run HowlOnDemandGUI.java	beginning	beginning
	Run Howlondemandon.java	Like a Rolling Stone by	Like a Rolling Stone by
	Select the button in the upper right	Bob Dylan is now	Bob Dylan is now
	corner of the station selection menu	playing from the	playing from the
	(should be labeled as "Driving")	beginning after the	beginning after the
		user hits the "next"	user hits the "next"
	Select the "next" button at the bottom	button	button
	of the window (a right-pointing arrow)		
	Check results		
testPlayPreviousSong	Preconditions:	Initially, Born to Run by	Initially, Born to Run by
(Noah Benveniste)	testProgramStartup, testSelectStation	Bruce Springsteen is	Bruce Springsteen is
	and testPlayNextSong have passed	playing from the	playing from the beginning
	Run HowlOnDemandGUI.java	beginning	Degiiiiiig
	,	Like a Rolling Stone by	Like a Rolling Stone by
	Select the button in the upper right	Bob Dylan is now	Bob Dylan is now
	corner of the station selection menu	playing from the	playing from the
	(should be labeled as "Driving")	beginning after the	beginning after the
		user hits the "next"	user hits the "next"
	Select the "next" button at the bottom	button	button
	of the window (a right-pointing arrow)	Born to Run by Bruce	Born to Run by Bruce
	Select the "previous song" button at the	Springsteen is now	Springsteen is now
	bottom of the window (a left-pointing	playing from the	playing from the
	arrow)	beginning once again	beginning once again
		after the user hits the	after the user hits the
	Check results	"previous song" button	"previous song" button

Document Revision History

Date	Author	Change Description
10/19/17	Noah Benveniste	Wrote 5 test cases
10/20/17	Noah Benveniste	Proofread for spelling and grammar
10/31/17	Noah Benveniste	Ran tests on finished project