

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

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

#### Document Revision History

Date	Author	Change Description
10/19/17	Noah Benveniste	<ul style="list-style-type: none"> <li>Wrote 5 test cases</li> </ul>
10/20/17	Noah Benveniste	<ul style="list-style-type: none"> <li>Proofread for spelling and grammar</li> </ul>
10/31/17	Noah Benveniste	<ul style="list-style-type: none"> <li>Ran tests on finished project</li> </ul>

