

JAVA PROJECT QUESTION 4

TEST DOCUMENT

Question 4

Testing and debugging for Java III project.

Debugging

The screenshot displays an IDE interface with two main panels. The top panel shows the 'Test Results' tab for 'MusicPlayer (test)'. It indicates that 3 tests passed and 1 test failed. The failed test is 'musicplayer.MusicControllerTest', which failed at 'testSort_TheUnsortedSongList_IsSorted'. The error message states: 'Failed: expected: <musicplayer.Song@ea1a8d5> but was: <[musicplayer.Song@ea1a8d5, musicplayer.Song@2bbf4b8b, musicplayer.Song@30a3107a]>'. Below this, the 'Output - MusicPlayer (test)' tab shows that all 4 tests passed successfully.

The bottom panel shows the 'Source' tab with the 'loadSongs()' method in 'MusicPlayer.java'. The code is as follows:

```

205    /// This method loads the song list if there is one into the music player.
206    private void loadSongs() {
207        System.out.println("Hello World");
208        try {
209            // declare instantiate reader.
210            // Set a FileReader to read from the file.
211            String fileName = "../Docs/SongList.csv";
212            try (CSVReader csvReader = new CSVReader(new FileReader(fileName))) {
213
214                String[] nextLine;
215
216                while ((nextLine = csvReader.readNext()) != null) {
217
218                    Song song = new Song(nextLine[0], nextLine[1]);
219                    // System.out.println(nextLine[1]);
220                    File file = new File(nextLine[1]);
221                    if (file.exists()) {
222                        mc.add(song);
223                    }
224                }
225                mc.sortList(mc.getList());
226                updateList();
227            }
228        } catch (FileNotFoundException e) {
229            System.out.println("The File was not found.");
230            // System.out.println(
231            //     "When the program closes the song list will be saved to a new file.");
232        } catch (IOException e) {
233            System.out.println("There was an error reading the file.");
234            // Logger.getLogger(MusicPlayer.class.getName()).log(Level.SEVERE, null, e);
235        } catch (CsvValidationException ex) {
236
237        }
238    }

```

The bottom panel also shows the 'Output - MusicPlayer (run)' tab, which displays the output of the program. It starts with 'Hello World' and then lists several MP3 files that were loaded from the 'SongList.csv' file:

```

run:
Hello World
file:/F:/Documents/Tafe/Dip_Of_Programming/Java%203/AT3/Music/A%20New%20Beginning.mp3
file:/F:/Documents/Tafe/Dip_Of_Programming/Java%203/AT3/Music/A%20New%20Beginning.mp3
file:/F:/Documents/Tafe/Dip_Of_Programming/Java%203/AT3/Music/Beauty%20in%20the%20Eye%20of%20the%20Orbiter.mp3
file:/F:/Documents/Tafe/Dip_Of_Programming/Java%203/AT3/Music/Beauty%20in%20the%20Eye%20of%20the%20Orbiter.mp3
file:/F:/Documents/Tafe/Dip_Of_Programming/Java%203/AT3/Music/Epic.mp3
file:/F:/Documents/Tafe/Dip_Of_Programming/Java%203/AT3/Music/Epic.mp3
file:/F:/Documents/Tafe/Dip_Of_Programming/Java%203/AT3/Music/Going%20Higher.mp3
file:/F:/Documents/Tafe/Dip_Of_Programming/Java%203/AT3/Music/Going%20Higher.mp3
file:/F:/Documents/Tafe/Dip_Of_Programming/Java%203/AT3/Music/Memories.mp3
file:/F:/Documents/Tafe/Dip_Of_Programming/Java%203/AT3/Music/Memories.mp3

```

Test Table

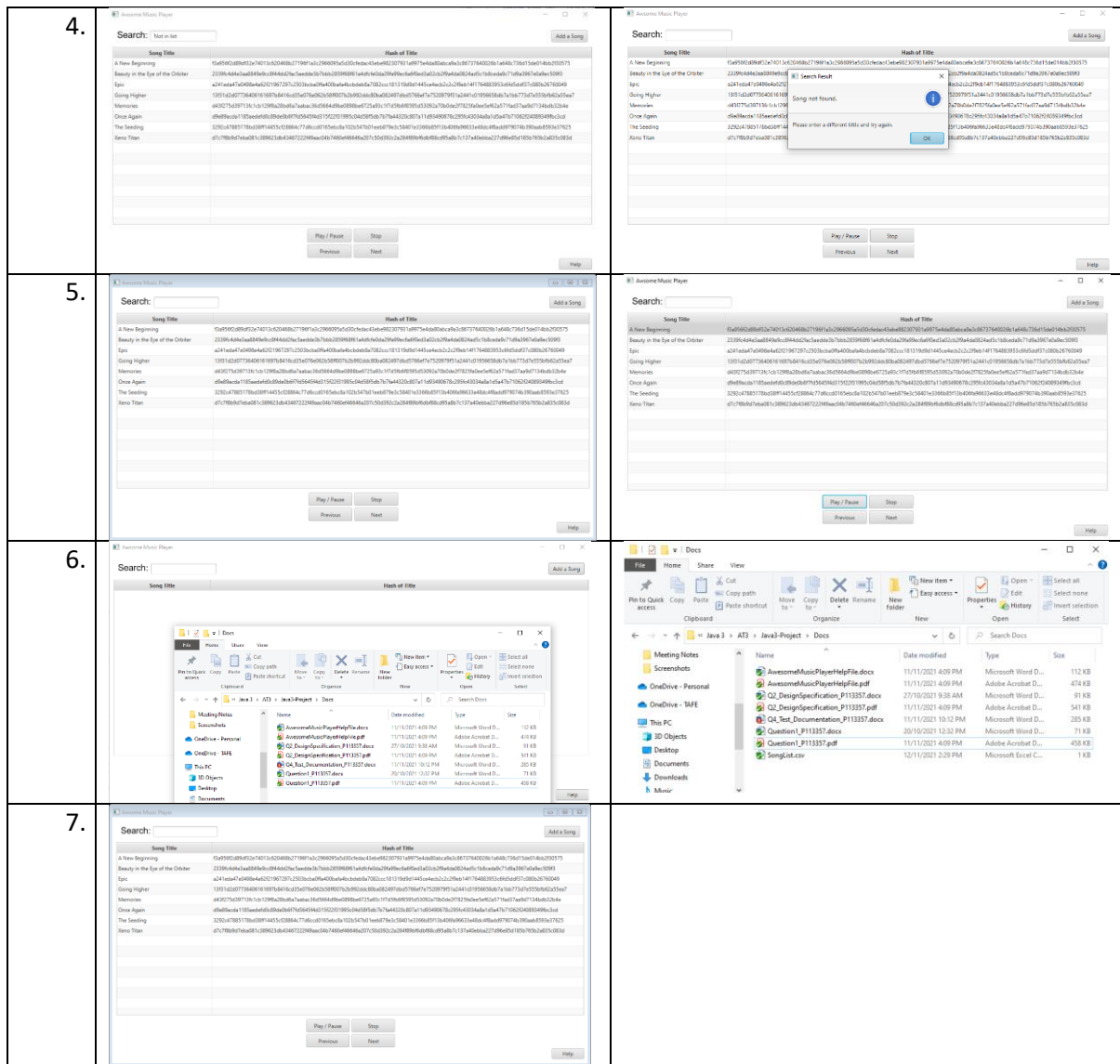
Case	Data	Expected Result	Actual Result
1	Add the first song to the list.	The song & hash are added to the table.	As expected, Ref Figure 1
2	Add more songs are added to the list.	More songs are added, and the list is sorted.	As expected, Ref Figure 2
3	Search for a song in the list	The song is found, highlighted in the list, and starts playing.	As expected, Ref Figure 3
4	Search for a song not in the list	A popup appears stating that the song was not found.	As expected, Ref Figure 4
5	Play a song.	The song is highlighted in the list and plays.	As expected, Ref Figure 5
6	Close the program.	The track list is saved to a csv file.	As expected, Ref Figure 6
7	Start the program.	The song list is loaded from the csv file.	As expected, Ref Figure 7

Screen Shots

1.

2.

3.



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