

<b>Object Oriented Analysis and Design with Software Engineering Laboratory</b>								
<b>Test Plan</b>								
<b>Section-B</b>								
<b>Team No. 14</b>								
<b>Manjunath Hegde(PES2201800110) - Tests 9-16</b>								
<b>Tejus D(PES2201800148) - Tests 17-25</b>								
<b>Tushar Dixit(PES2201800138) - Tests 1-8</b>								
Test Case ID	Name of Module	Test case description	Pre-conditions	Test Steps	Test data	Expected Results	Actual Result	Test Result
IT-1 (Integration test case for cpp files and users.csv databasefile)	Music Listener Login	To test the login functionality of listener users.	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Enter user as Listener. 2. Enter the credentials 3. Press Enter	Username: Tushar Password: tushar	Login should be successful with top 10 songs displayed on home page along with available functions.	Successful login with top 10 songs and available functions displayed on home page.	Pass
IT-2 (Integration test case for cpp files and admin.csv databasefile)	Admin Login	To test the login functionality of administrative users	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Enter user as admin 2. Enter credentials of the sole admin. 3. Press Enter	Username: root Password: toor	Login should be successful with admin functions displayed on home page.	Successful login with available admin functions displayed on home page.	Pass
UT-3	Display Playlist	To test the playlist display for listeners	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for listener login. 3. Enter username 4. Enter password 5. Press 1 for displaying playlist.	Username: Tushar password: tushar Index of playlist display function: 1	Display all the details of songs in the playlist of listener.	Successful display of all details of all songs in listener's playlist.	Pass
IT-4, UT-4(Integration test case for cpp files and songs.csv databasefile)	Display Database	To test the database display for admin users	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 1 for admin login. 3. Enter username 4. Enter password 5. Press 1 to display database	Username: root Password: toor Index of playlist display function: 1	Display all the details of songs in the entire database.	Successful display of details of all the songs in database.	Pass
UT-5	Recommend Songs	To test the song recommendation system for listeners	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for listener login. 3. Enter username 4. Enter password 5. Press 8 for recommend songs option	Username: Tushar Password: tushar Index of recommend_songs function: 8	Display the recommended songs for the listener.	Successful display of all the details of recommended songs for the logged in listener.	Pass
UT-6	Listener Signup	To test the signup for new listeners	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 2 for signup 2. Enter username 3. Enter password 4. Enter email 5. Enter favourite genre	Index of signup option: 2 Username: one Password: two Email: three Genre: rock	Display success as the username does not already exist in the database.	Displays success since the username did not exist in the user database	Pass
UT-7	Invalid Listener Signup	To test the signup functionality with already existing username	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 2 for signup 2. Enter username 3. Enter password 4. Enter email 5. Enter favourite genre	Index of signup option: 2 Username: Tushar Password: tushar Email: tushar@gmail.com Genre: rock	Should Display "Username Already exists" as the user already exists in database	Displays "Username Already Exists"	Pass

UT-8	Add Songs to Listener Playlist	To test the functionality of adding songs to the playlist of a listener.	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for listener login. 3. Enter username 4. Enter password 5. Press 3 for adding songs function. 6. Enter song id of the song to be added. 7. Press 1 for displaying the playlist to check if the new song is added.	Index of Login option: 1 Index of Listener login: 2 Username: Tushar Password: tushar Index of Adding songs option: 3 Song id of the song to be added: 3 Index of display playlist option: 1	Should display "Success" as the song does not exist in Manjunath's playlist and on displaying the playlist it should display the new song too.	Displays "Success" and shows the new song added in the playlist.	Pass
UT-9	Add a previously added song to database.	To test the functionality of adding previously existing song in the playlist to the playlist of a listener.	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for listener login. 3. Enter username 4. Enter password 5. Press 3 for adding songs function. 6. Enter song id of the song to be added. 7. Press 1 for displaying the playlist to check if the new song is added.	Index of Login option: 1 Index of Listener login: 2 Username: Manjunath Password: manju Index of Adding songs option: 3 Song id of the song to be added: 3 Index of display playlist option: 1	Should display "Song already exists in your database"	Displays "Song already exists in your database" and shows the song only once in the playlist.	Pass
UT-10	Removing a song from playlist of a listener	To test the functionality of removing a song the playlist of listener	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for listener login. 3. Enter username 4. Enter password 5. Press 4 for removing songs function. 6. Enter song id of the song to be removed. 7. Press 1 for displaying the playlist to check if the song is not displayed or not.	Index of Login option: 1 Index of Listener login: 2 Username: Manjunath Password: manju Index of Adding songs option: 4 Song id of the song to be removed: 3 Index of display playlist option: 1	Should display "Success" as the song is present in the playlist and the playlist display should not list the song.	Displays "Success" as the song was present in the playlist. The display of playlist does not show the song which has been removed.	Pass
UT-11	Removing a song which does not exist in the playlist	To test the functionality of removing a song which does not exist in the database.	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for listener login. 3. Enter username 4. Enter password 5. Press 4 for removing songs function. 6. Enter song id of the song to be removed. 7. Press 1 for displaying the playlist to check if the song is not displayed or not.	Index of Login option: 1 Index of Listener login: 2 Username: Manjunath Password: manju Index of Adding songs option: 4 Song id of the song to be removed: 3 Index of display playlist option: 1	Should display "Song does not exist in your playlist" as the song is not present in the playlist and the playlist display should not list the song.	Displays "Song does not exist in your playlist" as the song was not present in the playlist. The display of playlist does not show the song which has been removed.	Pass
UT-12, IT-12(Integration test case for cpp files and songs database folder which contains all the songs.)	Play playlist function for the listener.	To test the functionality of playing the listener's playlist in a loop.	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for listener login. 3. Enter username 4. Enter password 5. Press 5 for entering the music player for playlist.	Index of Login option: 1 Index of Listener login: 2 Username: Manjunath Password: manju Index of playing playlist option: 5	Should Display a new menu which is the music player interface of playlist.	Displays the music player interface of playlist. Pressing 1 plays the song. Pressing 1 again pauses the song. Pressing 2 Stops the song. Pressing 3 opens the next song. Pressing 4 exists the music player.	Pass

UT-13	Play an individual song function.	To test the functionality of playing any song from the database.	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for listener login. 3. Enter username 4. Enter password 5. Press 6 for entering the music player for a song.	Index of Login option: 1 Index of Listener login: 2 Username: Manjunath Password: manju Index of playing playlist option: 6 Song id of the song to be played: 1	Should Display a new menu which is the music player interface of song.	Displays the music player interface of the song. Pressing 1 plays the song. Pressing 1 again pauses the song Pressing 2 Stops the song.	Pass
UT-14	Display song details of an individual song for listeners.	To test the functionality of displaying the details of a song for listeners	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 1 for listener login. 3. Enter username 4. Enter password 5. Press 2 for display details function.	Username: Manjunath Password: manju Index of displaying song details function: 2 Song id for which the details should be displayed: 1	Should display all the details of the song with song id 1 as it exists in the database.	Displays the details of the song with song id 1.	Pass
UT-15	Like a song	To test the functionality of liking a song in the database	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 1 for listener login. 3. Enter username 4. Enter password 5. Press 2 for displaying the number of likes for the song. 6. Press 7 for like song functionality 7. Press 2 for displaying the number of likes for the song liked.	Username: Manjunath Password: manju Index of like song function: 7 Song id of the song to be liked: 1 Index of the displaying song details function: 2	First the details should show 51 likes. After the like function display "Success" and should display 52 likes for the song.	Displays 51 likes, then displays "Success" and 52 likes for the liked song.	Pass
UT-16	Display Song Details of an individual song for admins	To test the functionality of displaying the song details for admin users	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 1 for admin login. 3. Enter username 4. Enter password 5. Press 2 for display details function.	Username: root Password: toor Index of displaying song details function: 2 Song id for which the details should be displayed: 1	Should display all the details of the song with song id 1 as it exists in the database.	Displays the details of the song with song id 1.	Pass
UT-17	Add a song to database	To test the functionality of adding a new song to the database for admins	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 1 for admin login. 3. Enter username 4. Enter password 5. Press 3 for adding songs function. 6. Enter song id, name, artist, genre, location of the song to be added. 7. Press 1 for displaying the database to check if the new song is added.	Username: root Password: toor Index of displaying all songs function: 1 Index of adding songs function: 3 Song id: 22 Song name: abc Song genre: rock Song artist: ghi Song location: jkl	Should display "Success" and on displaying the database it should display the new song too.	Displays "Success" and the display function shows all the details of the song added.	Pass
UT-18	Removing Song from database for admins	To test the functionality of removing a song from database for admins.	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 1 for admin login. 3. Enter username 4. Enter password 5. Press 4 for removing songs function. 6. Press 1 for displaying the database to check if the song is removed or not.	Username: root Password: toor Index of displaying all songs function: 1 Index of adding songs function: 4 Song id: 22	Should display "Success" as the song exists in the database and the database should not display the song.	Displays "Success" and the database list does not show the song anymore.	Pass
UT-19	Removing Song with invalid song id for admins	To test the functionality of removing a song with a song id which does not exist.	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 1 for admin login. 3. Enter username 4. Enter password 5. Press 4 for removing songs function. 6. Press 1 for displaying the database to check if the song is removed or not.	Username: root Password: toor Index of displaying all songs function: 1 Index of adding songs function: 4 Song id: 22	Should display "Song does not exist in your playlist/database"	Displays "Song does not exist in your playlist/database"	Pass

UT-20	Play All Song for admin	To test the functionality of play all the songs in the database for admin users in a loop.(For admins the playlist is the entire database).	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for admin login. 3. Enter username 4. Enter password 5. Press 5 for entering the music player for database.	Username: root Password: toor Index of playing all songs function: 5	Should Display a new menu which is the music player interface of database.	Displays the music player interface of database. Pressing 1 plays the song. Pressing 1 again pauses the song. Pressing 2 Stops the song. Pressing 3 opens the next song. Pressing 4 exists the music player.	Pass
UT-21	Play an individual song for admins	To test the functionality of playing any song from the database for admins.	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 1 for admin login. 3. Enter username 4. Enter password 5. Press 6 for entering the music player for a song.	Index of Login option:1 Index of Listener login: 2 Username: root Password: toor Index of playing database option: 6 Song id of the song to be played: 1	Should Display a new menu which is the music player interface of song.	Displays the music player interface of the song. Pressing 1 plays the song. Pressing 1 again pauses the song Pressing 2 Stops the song.	Pass
UT-22	Logout for listeners	To test the logout functionality for listeners	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for listener login. 3. Enter username 4. Enter password 5. Press 9 for logging out.	Username: Tejus Password: tejus Index of logout function: 9	Should go back to the login menu.	Takes control back to the login menu.	Pass
UT-23	Logout for admins	To test the logout functionality for admins	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 1 for admin login. 3. Enter username 4. Enter password 5. Press 9 for logging out.	Username: root Password: toor Index of logout function: 9	Should go back to the login menu.	Takes control back to the login menu.	Pass
UT-24	Recommend Similar Songs	To test the functionality of recommending similar songs for listeners	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for listener login. 3. Enter username. 4. Enter password. 5. Press 9 for recommend similar songs functionality 6. Enter the song id to recommend similar songs to it.	Username: Tejus Password: tejus Index for recommend similar songs function: 9 Song id: 5	Should recommend rock songs as song id 5 is a rock song.	Recommends and gives all details of all rock songs in the database.	Pass
UT-25	Recommend Similar Songs	To test the functionality of recommending similar songs for listeners with invalid song id.	Windows 10 OS, admin, songs, users database files in the same folder as cpp files.	1. Press 1 for login. 2. Press 2 for listener login. 3. Enter username. 4. Enter password. 5. Press 9 for recommend similar songs functionality 6. Enter the song id to recommend similar songs to it.	Username: Tejus Password: tejus Index for recommend similar songs function: 9 Song id: 30(invalid)	Should display "No recommended songs"	Displays "No recommended songs" as no song has id as 30.	Pass