



Software Engineering Fundamentals

Assessment: 4

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Git repository link:

https://github.com/dheeraj78677/SEF_Assignment4

Recording link:

[Assignment4 Recording.mp4](#)

Test Cases for addArtists() function

Test Cases	Test Data	Expected Result	Test Result	Pass/Fail
Test Case 1: Creating and adding Artist with valid inputs	Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [2022, Best Singer of the year])	Add the artist to the artists text file in the same directory	Add the artist to the artists text file in the same directory	Pass
	Artist (777SABCD%_, Geet, Armadale Sydney Australia, 05-11-1980, Hello word good morning this is your friend Geet Singh, [Singer], [metal, jazz], [2000, Best guitar player of the year])			Pass
Test Case 2: Creating and adding artist with invalid ID format	Artist (7A7EABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [2022, Best Singer of the year])	It should return false and the artist should not add in the text file	It should return false and the artist should not add in the text file	Pass
	Artist (123XBCD%_, Geet, Armadale Sydney Australia, 05-11-1980, Soulful singer with a mesmerizing voice captivating audiences worldwide with heartfelt lyrics and unforgettable melodies.,			Pass

	[Singer], [metal, jazz], [2000, Best guitar player of the year])			
Test Case 3: Creating and adding artist with invalid Birthday	<p>Artist (569MMMRR_%, Sneha, Geelong Victoria Australia, 1977-08-25, Mesmerizing vocalist enchanting crowds with her powerful voice and heartfelt melodies., [Musician], [rock, classical])</p> <p>Artist (569MMKRR%, Prerna, Auckland Victoria Australia, 2027-15-25, Mesmerizing vocalist enchanting crowds with her powerful voice and heartfelt melodies., [Musician], [rock, classical],[2022, Best Song of the year])</p>	It should return false and the artist should not add in the text file	It should return false and the artist should not add in the text file	<p>Pass</p> <p>Pass</p>
Test Case 4: Creating and adding artist with invalid address format	<p>Artist (569MMMRR_%, Sneha, Geelong--Victoria--Australia, 04-08-1995, Mesmerizing vocalist enchanting crowds with her powerful voice and heartfelt melodies., [Musician], [rock, classical])</p> <p>Artist (569MMKRR%, Prerna, Auckland--Victoria--NewZealand, 22-05-1996, Mesmerizing vocalist enchanting crowds with her powerful voice and heartfelt melodies., [Musician], [rock, classical],[2022, Best Song of the year])</p>	It should return false and the artist should not add in the text file	It should return false and the artist should not add in the text file	<p>Pass</p> <p>Pass</p>
Test Case 5: Creating and adding artist with invalid occupation data format	Artist (569MMKRR%, Prerna, Auckland Victoria NewZealand, 22-05-1996, Mesmerizing vocalist enchanting crowds with her powerful voice and heartfelt melodies., [Musician, Singer, Dancer, Producer, Composer, Athlete], [rock, classical],[2022, Best Song of the year])	It should return false and the artist should not add in the text file	It should return false and the artist should not add in the text file	Pass

	Artist (569MMMRR_%, Sneha, Geelong Victoria Australia, 04-08-1995, Mesmerizing vocalist enchanting crowds with her powerful voice and heartfelt melodies., [rock, classical])			Pass
Test Case 6: Creating and adding artist with invalid Genre's data format	Artist (569MMKRR%, Prerna, Auckland Victoria NewZealand, 22-05-1996, Mesmerizing vocalist enchanting crowds with her powerful voice and heartfelt melodies., [Singer, Dancer, Producer, Composer, Athlete], [rock],[2022, Best Song of the year])	It should return false and the artist should not add in the text file	It should return false and the artist should not add in the text file	Pass
	Artist (569MMMRR_%, Sneha, Geelong Victoria Australia, 04-08-1995, Mesmerizing vocalist enchanting crowds with her powerful voice and heartfelt melodies.,[Musician] [rock, classical,jazz, pop, metal, folk])			Pass

Test Cases for updateArtists() function

Test Cases	Test Data	Expected Result	Test Result	Pass/Fail
Test Case 1: Create a valid data at first and try to update its name Create artist/add artist with these inputs Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop,	Artist (778DABCD%_, Prerna, Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [2022, Best Singer of the year])	It should return true and update artist file with name	It should return true and update artist file with name	Pass
	Artist (778DABCD%_, Kalpana, Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop,			Pass

jazz], [2022, Best Singer of the year])	[Singer], [pop, jazz], [2022, Best Singer of the year])			
<p>Test Case 2: Create a valid data at first and try to update with valid birthdate</p> <p>Create artist/add artist with these inputs</p> <p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [2022, Best Singer of the year])</p>	<p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 11-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [2022, Best Singer of the year])</p> <p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 22-10-1980, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [2022, Best Singer of the year])</p>	It should return true and update artist file with birthdate	It should return true and update artist file with birthdate	<p>Pass</p> <p>Pass</p>
<p>Test Case 3: Create a valid data at first and try to update with valid occupation string</p> <p>Create artist/add artist with these inputs</p> <p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [2022, Best Singer of the year])</p>	<p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer, Chef], [pop, jazz], [2022, Best Singer of the year])</p> <p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-2001, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer, Musician, Dancer, Composer, Producer], [pop, jazz], [2022, Best Singer of the year])</p>	<p>It should return true but it should not update artist file with occupations as Birthyear <2000</p> <p>It should return true and update artist file with occupations</p>	<p>It should return true but it should not update artist file with occupations as Birthyear <2000</p> <p>It should return true and update artist file with occupations</p>	<p>Pass</p> <p>pass</p>
<p>Test Case 4: Create a valid data at first and try to update with invalid Genre lists</p> <p>Create artist/add artist with these inputs</p> <p>Artist (778DABCD%_, Dheeraj,</p>	<p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop], [2022, Best Singer of the year])</p>	It should return false and not update artist file with invalid genre list	It should return false and not update artist file with invalid genre list	Pass

<p>Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [2022, Best Singer of the year])</p>	<p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz, rock, classical, metal, folk], [2022, Best Singer of the year])</p>			Pass
<p>Test Case 5: Create a valid data at first and try to update name and valid address</p> <p>Create artist/add artist with these inputs</p> <p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1997, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [2022, Best Singer of the year])</p>	<p>Artist (778DABCD%_, Kalpana,Mumbai Maharashtra India, 04-08-1995, Mesmerizing vocalist, enchanting crowds with her powerful voice and heartfelt melodies.,[Musician] [rock, classical,jazz, pop, metal, folk])</p> <p>Artist (778DABCD%_, Prerna, Auckland Victoria NewZealand, 04-08-1995, Mesmerizing vocalist, enchanting crowds with her powerful voice and heartfelt melodies.,[Musician] [rock, classical,jazz, pop, metal, folk])</p>	<p>It should return true and update artist file with name and address</p>	<p>It should return true and update artist file with name and address</p>	<p>Pass</p> <p>Pass</p>
<p>Test Case 6: Create a valid data at first and try to update awards</p> <p>Create artist/add artist with these inputs</p> <p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1980, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [1999, Best Song of the year])</p>	<p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1980, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [1999, Best Singer of the decade])</p> <p>Artist (778DABCD%_, Dheeraj, Melbourne Victoria Australia, 04-04-1980, Passionate vocalist captivating hearts with soulful melodies and powerful emotive performances., [Singer], [pop, jazz], [2021, Best Musician of the year])</p>	<p>It should not update the title of the award as the award year is less than 2000</p> <p>It should add award in the award list</p>	<p>It should not update the title of the award as the award year is less than 2000</p> <p>It should add award in the award list</p>	<p>Pass</p> <p>Pass</p>

Part2: User Story and acceptance criteria based on Assignment 1 functional and non-functional requirements

User story: As a music listener, I want to be able to share my favorite songs to my friends across popular social media platform (Facebook, WhatsApp, Instagram), so that I can easily introduce them to the music I love.

Acceptance Criteria:

1. To access the SEF_Music app platform, the user must log in.
2. Upon selecting a song, a share icon should be visible, which, when clicked, will display a list of available social media platforms.
3. After clicking on a social media platform, the app should open it, enabling the user to choose a recipient. The message should already contain the song title and a link.
4. The user who initiated the song share should receive a notification from the SEF_Music app confirming the successful completion of the process, and the recipient should be notified through the chosen messaging platform.

User story: As a music creator, I want to be able to view a detailed graph about my monthly listeners, most played music and region wise popularity, so that I can keep a track of my music performance and make informed decisions about my content.

Acceptance Criteria:

1. A creator must login with their creator login credentials to access the dashboard.

2. Upon opening the visual dashboard, the data presented in the graphs and lists should be accurate and updated in real-time or at least with minimal delay.
3. The SEF_Music app should allow creators to export or download the reports.

User story: As a music listener, I want to be able to follow my favorite artist, so that I can stay updated and receive notifications about their latest music releases.

Acceptance Criteria:

1. When a user searches for an artist and arrives at the Artist profile page within the SEF_Music app, they should encounter a "Follow" or "Subscribe" button that permits them to start following the artist.
2. Following an artist should grant the listener the capability to customize their notification settings regarding music releases and tour updates.
3. The SEF_Music app must offer a straightforward method for users to unfollow an artist. This can be accomplished either from the Artist Profile page directly or through an "Unfollow" or "Unsubscribe" link included in notification messages.

User story: As a user, I expect a high level of confidence in the security and privacy of my data, so that my user credentials and payment information remain protected throughout transactions

Acceptance Criteria:

1. The developer is required to employ asymmetric encryption for creating secure communication links between the SEF_Music app and external servers.

2. The SEF_Music app team must guarantee that sensitive data, such as user credentials and card details, is never stored as plain text but is instead protected through the use of a robust hashing technique.
3. The SEF_Music app should also adhere to data privacy regulations and industry standards.

User Story: As a user, I want to be able to create and manage my playlist, so I can enjoy customized song collection according to my preference.

Acceptance Criteria:

1. To create and manage a playlist on SEF_Music app platform, the user must log in.
2. The home page should prominently feature an icon for playlist creation, where users can specify a name and description for their playlist.
3. Users are allowed to include songs in their playlist from either the playlist creation interface or directly from the song playback window.
4. User can adjust the order of songs within their playlists as desired.