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Test plan

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# Test strategy

## Unit and integration testing

One of the strategies for testing my code, that I will apply is unit testing using Mockito. I will be using this framework, because it allows us to test the service layer and API layer of the back-end code by just adding a few annotations and automatically creates mock classes for the data access layer for us. Another important thing about Mockito is that Spring Boot is compatible with it.

# Acceptance tests

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID | UC | Name | Pre-condition | Test data | Expected result |
| TC- | UC-07 | View content | Actor is not logged in and is on the home page |  | Displaying of part of the songs and public playlists |
| TC- | UC-02 | Create an account with valid data | Actor is on the log in page of the application | First name: Radost  Last name: Neradost  Email: [radost@abv.bg](mailto:radost@abv.bg)  Username: radost  Password: 1234 | The user will receive a message for successful creation of an account and will be able to log in with the given credentials |
| TC- | UC-02 | Create an account with invalid data | Actor is on the log in page of the application | First name: Radost  Last name: Neradost  Email: [radost@abv.bg](mailto:radost@abv.bg)  Username: radost  Password: 1234 | The user will be alerted, that the information is already used |
| TC- | UC-01 | Log in with wrong credentials | Actor is on the log in page of the application | Username: radost  Password: 1111 | The user will be alerted, that the credentials are invalid |
| TC- | UC-01 | Log in with correct credentials | Actor is on the log in page of the application | Username: radost  Password: 1234 | Redirection to the log in page, where personalized data is displayed |
| TC- | UC-15 | Updating account information | Actor is logged in as a user | Email: [radost@gmail.com](mailto:radost@gmail.com)  Username: radostinka | Message for successful updating of the information and logging in with old information is unsuccessful |
| TC- | UC-03 | Create a playlist | Actor id logged in as user and is in the playlist page | Title: Test playlist  Public: false | The created playlist will be displayed after the button for creation is clicked |
| TC- | UC-04 | Add song to personal playlist | Actor is logged in as a user and is the playlist page | Playlist: Test playlist  Song: Kiwi | The song is displayed as a playlist’s song |
| TC- | UC-04 | Add same song to personal playlist | Actor is logged in as a user and is the playlist page | Playlist: Test playlist  Song: Kiwi | User is alerted that the song is already in the playlist |
| TC- | UC-04 | Add a song to another user’s playlist | Actor is logged in as a user and is the playlist page | Playlist: A public one, not created by the user | The user is not allowed to perform this action |
| TC- | UC-05 | Remove song from a personal playlist | Actor is logged in as a user and is the playlist page | Playlist: Test playlist  Song: Kiwi | The song is removed from the list of songs pf the playlist |
| TC- | UC-05 | Remove song from another user’s playlist | Actor is logged in as a user and is the playlist page | Playlist: A public one, not created by the user  Song: One of the songs | The user is not allowed to perform this action |
| TC- | UC-06 | Delete personal playlist | Actor is logged in as a user and is the playlist page | Playlist: Test playlist | The playlist is removed from the list with personal playlists of the user |
| TC- | UC-08 |  |  |  |  |
| TC- | UC-09 | View detailed information about a song | Actor has clicked on a particular song | Song: Kiwi | Detailed information about the song, including the title, artist, seconds, monthly listeners |
| TC- | UC-10 | Retrieve aggregated data regarding the interaction with the content | Actor is on the page with detailed information about a song | Song: Kiwi | Monthly listeners will be displayed |
| TC- | UC-11 | Filter music content | Actor is on the home page | Filter: Actor’s choice | Display of the filtered results |
| TC- | UC-12 | Search for music content by partial title | Actor is on the home page | Title: Actor’s choice | Display of results that contain the input in their title |
| TC- | UC-13 | Add music content | Actor is logged in as an admin and is in the songs page | Title: Arabella  Artist: Arctic Monkeys  Seconds: 143  Genre: pop | Display of message for successful creation and searching for the song by title on the home page displays it |
| TC- | UC-14 | Deleting existing musical content | Actor is logged in as an admin and is in the songs page | Song: Arabella | Display of message for successful deletion and searching for the song by title on the home page displays no results |