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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.

## E2E testing

For ensuring the quality of my front end I tested the flow of it with the help of Cypress. One disadvantage of it is that it does not work with mock API, but it directly inserts into your storage, which can lead to unsuccessful testing if not ordered in the right sequence. Despite that, it still can be used to write very useful tests.

# 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 |