Team 4 Choonz test plan

Product Overview

Choonz is a music application that is created using spring boot as a back end along with a front end created using HTML and CSS with bootstrap 5. There are 5 sections to it - Albums, Artists, Tracks, Genres and playlists. These are linked together through many relationships.

Test Strategy

Scope of Testing:

- Back end service and controller unit tests (Tom +Michael)
- Back end service and controller integration tests (Tom + Jordan)
- Acceptance testing with selenium (Michael + Hasan)
- Non-functional testing with JMeter (Jordan)

Not in scope:

- Simple back end components like DTOs and Mappers

Risk	Mitigation Plan
Tight Schedule	Prioritise testing and try and get a broad coverage
Lack of Experience	Give extra time to learn technology – not possible due to the tight schedule

Test Objectives

- Test the rest API using unit and integration tests to ensure it is fully functional
- Using Selenium to test the front end of the website to ensure all buttons and features work as intended
- Use JMeter to ensure the website runs well with many users simultaneously

Resources

Tom – Leading Backend tests

Hasan – Aiding with acceptance testing

Jordan – Leading non- functional testing and aiding with backend

Michael – Leading acceptance testing

Test Schedule

Time estimates are laid out on the Jira board

Deliverables

Backend tests will be ran and the results can be shown – little need for reports as they are self-explanatory, the same goes for Selenium testing.

JMeter tests will be ran and reports will be produced explaining the purpose of each test along with the outcome.