By: Martin Todorov

Student number: 4491114

Project plan

Music collection system



[Version 2]

Table of contents

[Problem description 2](#_Toc118375730)

[User stories 3](#_Toc118375731)

[Constraints 4](#_Toc118375732)

[Deliverables 5](#_Toc118375733)

[Phasing 6](#_Toc118375734)

# Problem description

Music, it is everywhere, drives and inspires people to be the best version of themselves. DJs, bar owners, hotel owners and any event planners need a new, easy to use platform, through which they can entertain their audience, share their favorite playlists and communicate with others.

# User stories

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | User story | Priority | Status | | | Story points |
| US-01 | As a listener, I wish to create my own account, so that I can explore the world of music | Must | Finished | | | 3 |
| Acceptance criteria | If registration is successful, an account is created and customer is redirected to the main page  If registration is not successful, customer remains on registration page and is prompted with an error message | | | | | |
| US-02 | As a listener, I wish to log in to my account, so that I can view my favorite music | Must | Finished | | | 3 |
| Acceptance criteria | If log in is successful, customer is redirected to the main page  If log in is not successful, it remains on the log in page | | | | | |
| US-03 | As a listener, I wish to be able to search for songs, instead of scrolling for a long time | Must | To be started | | | 8 |
| Acceptance criteria | The listener inputs parts or the whole name of the song into a search bar and the program displays their song if it exists. | | | | | |
| US-04 | As a DJ, I wish to create my own playlists, so that I can combine my favorite songs | Must | Finished | | | 5 |
| Acceptance criteria | Choose the option to create a playlist and add the songs that you want in it | | | | | |
| US-05 | As a DJ, I wish to access my playlists, so that I can listen to my favorite songs | Must | Finished | | | 5 |
| Acceptance criteria | The contents(songs) of the playlists are displayed when the playlist is selected | | | | | |
| US-06 | As a DJ, I wish to create a space so that people can join | Must | | To be started | 8 | |
| Acceptance criteria | Different people can join a room | | | | | |
| US-07 | As a DJ, I wish to play a playlists to the people in my space so that we can all enjoy the same song | Must | | To be started | 21 | |
| Acceptance criteria | The DJ selects a song and everyone in the room listens to the that song at the same time | | | | | |
| US-08 | As a listener, I wish to communicate with others on the platform, so we can share our opinions | Must | | To be started | 21 | |
| Acceptance criteria | Everyone on the site can publicly chat with others in real time on the website | | | | | |

# 

# Constraints

1. Make use of a version control system, such as Gitlab
2. Usage of the spring boot framework
3. Usage of a MySQL database
4. Web application deployment on Luna

# Deliverables

1. Software solution that includes:

* A web application with a modern front-end
* MySQL database
* Unit tests

2. Project documentation

# Phasing

|  |  |  |
| --- | --- | --- |
| Sprint | Weeks | Deliverables |
| 1 | Weeks 1-3 | * Project plan * First setup of restful API * Git repository setup |
| 2 | Weeks 4-6 | * Design document version 1 * 1st prototype iteration * Applied research document |
| 3 | Weeks 7-9 | * Design document version 2 * Quality assurance in Git using SonarQube * 2nd prototype iteration Research document |
| 4 | Weeks 10-12 | * Design document version 3 * 1st release version * Quality assurance using SonarQube * UX feedback report |
| 5 | Weeks 13-15 | * Final design document Security report * 2nd release version * Up-to-date product and sprint backlogs and burn-down charts * Websockets implementation |
| 6 | Weeks 16-18 | * Final design document * Final release with Docker integration * Up-to-date product, sprint backlogs and burn-down charts * Web performance review document |