User Requirements

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Project: Music trivia game

Semester: 6

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| Version | Date | Description |
| 0.1 | 7 March 24 | Initial user stories |
| 0.2 | 23 March 24 | Initial non-functional requirements |
| 0.3 | 25 March 24 | Format the document structure and fix user story 10. |

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# Context

This document represents the user requirements which contains the user stories and non-functional requirements. The user requirements are for a music trivia game, It is a web-based game where players have 30 seconds to guess either the artist or the song name based on a 10-second preview of the song. This document outlines the project requirements, defines the target user, and describes the user's interactions on the website. Please note that these user stories are not final and may be updated over time until the final delivery week of the project.

There are currently two users, the player, and the admin on this system.

# User story

The user story has:

* **Estimation points (Est pts).** It ranges from 1 to 10 and is used to estimate the amount of time required to complete the user story. 1 rating is equal to 1 to 3 days and 10 rating is equal to 10 to 30 days. The point system for the minimum days is 1 x point amount. The maximum estimation points are 3 x point amount.
* **Priority points (Prior pts).** It starts from 1 and ends at 10. It is to rate which user story is important and must be done first. The higher the priority, the more important it is. 10 being the highest priority and 1 being the lowest priority.
* **Acceptance criteria**. It is like the definition of done. Certain stuff needs to be done in the acceptance criteria for the user story to be done/ complete.

## User story 1

As a player, I want to select the genre of music and the year that I want to play, so that I can test my knowledge on that specific music.

Est pts: 2

Prior pts: 7

**Acceptance Criteria**

* I can pick which genres of music I want to play.
* I can pick which year I want to play.
* Start the game when the ready button is pressed.

## User story 2

As a player, I want to have the option to choose how many rounds the session has, so that we can play longer or shorter rounds.

Est pts: 1

Prior pts: 4

**Acceptance Criteria**

* I can pick how many rounds I want to play till the round pick.
* I can see the rounds that I picked during the game session.

## User story 3

As a player, I want to know which round I’m currently at, so that I know how many rounds are still left during the session.

Est pts: 1

Prior pts: 4

**Acceptance Criteria**

* It displays the current round.
* It displays how many rounds there are.

## User story 4

As a player, I want to see the timer when I play the trivia game, so that I know how many times I have left before I lose the round.

Est pts: 2

Prior pts: 8

**Acceptance Criteria**

* The timer is displayed each round.
* The timer restarts every round.
* The timer should start when the song started to play.
* After the timer stop you won’t be able to click on the answer.

## User story 5

As a player, I want to see the correct answer when I pick the wrong answer, so that I know the right answer next time when the specific song plays.

Est pts: 3

Prior pts: 8

**Acceptance Criteria**

* I can see the correct answer by the color.
* I can see the wrong answers by the other color.
* It displays the answer I picked.

## User story 6

As a player, I want to be able to invite my friends to play, so that I play with them and have fun.

Est pts: 5

Prior pts: 8

**Acceptance Criteria**

* I can see an invite button.
* I can invite my friends by they’re name.
* I can see the empty player slot.
* I can see a ready button.
* I can see that my friend has join the session.
* There is a message box for the players invited to the session.

## User story 7

As a player, I want to create a session, so that I can challenge players who join.

Est pts: 4

Prior pts: 8

**Acceptance Criteria**

* Random player can join the session.
* There is a ready button.
* The random people who join the session will be in the game.
* There is a message box for the players who joined the session.

## User story 8

As a player, I want to be able to see the other players answers, so that I know what answer they have picked.

Est pts: 4

Prior pts: 7

**Acceptance Criteria**

* The other players answer is displayed.
* Each player is displayed differently.

## User story 9

As a player, I want to see the total score of each player during the game session, so that I know who is winning.

Est pts: 3

Prior pts: 7

**Acceptance Criteria**

* I can see my total score each round.
* I can see the other players total scores each round.

## User story 10

As a player, I want to see the total score of each player after the end of the whole round, so that I know who won this session.

Est pts: 3

Prior pts: 7

**Acceptance Criteria**

* Display the total scores of each player at the end.
* Display the total scores from high to low.
* Display a ‘Play again’ button.
* You can play again after the score is displayed.

## User story 11

As a player, I want to know the specific song name after the end of the whole round, so that I can go listen to that specific song.

Est pts: 2

Prior pts: 5

**Acceptance Criteria**

* I can see all the artist’s names and song names from each round after the end of the game session.

## User story 12

As an admin, I want to add songs on the trivia game website, so that I can easily include the song for the game.

Est pts: 2

Prior pts: 9

**Acceptance Criteria**

* it’s required to add the genre and the year of the song.
* it's required to add the name of the song and the artist’s name.
* You can add the wrong answers.

## User story 13

As an admin, I want to see all the added songs, so that I know which songs are already in the trivia game.

Est pts: 1

Prior pts: 9

**Acceptance Criteria**

* I can see all the songs by song names and artist named.
* I can filter by genre and by year.
* I can click on the song to see more details.

## User story 14

As an admin, I want to be able to update a song, so that I can correct my mistakes.

Est pts: 1

Prior pts: 9

**Acceptance Criteria**

* I can update the gerne and the year of the song.
* I can update the name of the song and the artist’s name.
* I can update the wrong answers.

## User story 15

As a player or an admin, I want to be able to login to the web app, so that I see my information.

Est pts: 1

Prior pts: 7

**Acceptance Criteria**

* I can see my profile page.
* I can edit, delete, and add some information on my profile page.
* I can see a logout button.

## User story 16

As a player or an admin, I want to be able to logout of the web app, so that another person that uses my system doesn’t have access to my account.

Est pts: 1

Prior pts: 7

**Acceptance Criteria**

* I can’t see my profile page.
* I can still see a sign-up button.

# Non-Functional requirements

Here are the define non-functional requirements for this project and their criteria.

* **Performance:** The game interface should respond to interaction during the game or outside the game within 1 second for 95% of the interaction.
* **Scalability:** The system should be able to handle at least ten thousand concurrent players during peak hours with minimal response issues.
* **Security:** The system should comply with relevant data protection and security standers like OWSAP.
* **Integration:** The testing framework should integrate seamlessly with continuous integration and delivery (CI/CD) pipelines, enabling automated testing as part of the software development lifecycle.