

Listen Up

Research Document

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Introduction

This document is about the research done to get answers of list of questions. These questions are related to the understanding new things and getting new ideas to be used in ListenUp project.

Research Questions

Major 1: What data should the software store?

Minor 1: What user data should be stored?

Methods:

- Competitive analysis
- Explore user requirements
- Security test

Answer: User email, username, and password.

Minor 2: What details of main component need to be stored?

Methods:

- Competitive analysis
- Explore user requirements
- Data Analytics

Answer: Currently software is storing song info data, artist info data, user info data(incudes their playlists, liked playlists and liked songs).

Minor 3: How to determine relevancy of the data stored?

Methods:

- Competitive analysis
- Explore user requirements
- Data Analytics

Answer: Data usage is checked throughout the whole application.

Major 2: How to use React and connect the front-end to back-end?

Minor 1: What are the functionalities of JavaScript that are important to learn?

Method: Literature study

Answer: Researched the whole W3School. Currently important to learn how to operate with arrays and some of the basic functionalities

Minor 2: How to use axios?

Method: Literature study

Answer: Going through demos and samples of code.

Major 3: What are DTOs

Minor 1: Why DTO?

Method: Literature study

Answer: Increases security and reduces data usage.

Minor 2: How to convert DTO to model and vice versa?

Method: Literature study

Answer: Going through demos and samples of code.

Major 4: How to determine quality of the code?

Methods:

- Code review
- Unit testing
- Root cause analysis

Minor 1: What is SonarQube?

Method: Literature study

Answer: SonarQube is a software system which supplies with automated testing of bugs, code smell and quality of codes.

Minor 2: How to use SonarQube?

Method: Literature study

Answer: Going through slides and researching through Google.

Minor 3: How to connect SonarQube with git using yaml file?

Method: Literature study

Answer: The localhost:9000(SonarQube) actually have the tutorial for it.

Major 5: How this application is better than its competitor?

Methods:

- Benchmark test
- Available product analysis

Answer: It is not.

Major 6: How can this application be extended?

Methods:

- Brainstorm
- Explore user requirements

Answer: Currently application can only do simple crud functionalities. In near future it will be able to perform interesting actions.

Conclusion

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