Project Document

Project Idea

Our project for this course started as a collaborative idea between Beth Miles a speech therapist and Gregory Myers our professor. They saw a need in the market for an app to help patients of speech and cognitive therapy after the therapist was no longer seeing the patient. This need sparked the idea for a framework for apps that would be used differently but work very similarly, this allows us to make the apps quickly.

Our target audience for this application is former speech and cognitive therapy patients who still need assistance or stimulation. We chose this target audience because they were in need of assistance but without the extraordinary costs that can accumulate when paying for long term care.

Stakeholders

The stakeholders for this project were the main users of the app, their family members and us the developers. We chose these stakeholders because they were the most significant people that would use or be part of this project.

Languages Proposed

The language we proposed was java because as a group that was what we most competent in and fit the project the best.

Frameworks Proposed

We went with android studio for this project over other app development frameworks because its supported by android and uses java as its main language. Easy to use, the emulator and java knowledge

Component Architecture Proposed

For this project we chose object-oriented programming. Object oriented programing has tons of benefits including encapsulation to help simplify the design of the program as well as making code reuse a main principal. For this project we used the Model View Controller architecture, we chose this architecture because it gives you the benefit of having separate view logic and program logic. This allows us to change the view easily while not having to change the program logic which fits perfect for our project necessities.

Persistent Data Storage

For this project we went for a File structure for our persistent data storage. We chose this structure because it allows us to keep the storage of user information local to their device as well as allows the user to upload media to use in the program.

Dependability and Reliability

The dependability of the application is very high given the nature of the development method. The Agile methodology is very dependable because it has continual releases and has a principal of never having a release be broken, because you are releasing continually this allows for quick fixing of any issues that may occur and continued support.

Quality

Our first two version releases were successful in achieving the milestones we created. The group also plans on implementing later versions of the project to improve the quality of the app and its usefulness.

Group Members

Dustin Marshall

Jacob Rozycki

Yasmin Sakalla

Group Repository

Github

Group Communication Platforms

Microsoft Teams

Text Messaging

Identification of Requirements

For this project we met with a speech therapist Beth Miles and discussed with her possible features and what would be useful for patients in a mobile application. After each release we would get feedback and create new user stories.