

Programming Leadership Overview

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Objective:

This document outlines the technical setup and framework selection process for the HealthCare mobile app development project. As the Programming Leader, my role is to provide a comprehensive overview of the chosen technologies, tools, and development environment.

1. Technology Selection:

After thorough research and consideration, the team has decided to use React Native for the development of the HealthCare mobile app. React Native is a popular cross-platform framework that allows us to build native mobile applications using JavaScript and React.

2. Framework Comparison:

I studied various mobile app development frameworks available and selected React Native based on its advantages such as code reusability, a large community of developers, and efficient performance.

3. Development Environment Setup:

- a) Code Editor:
Chose Visual Studio Code (VS Code) as the primary code editor for its lightweight, extensible nature, and excellent support for React Native development.
- b) Node.js Installation:
Installed Node.js LTS version to leverage its package manager (npm) for managing project dependencies and utilizing the Node.js runtime environment.

4. React Native CLI vs. Expo:

After evaluating both React Native CLI and Expo, I opted for Expo due to its streamlined development process, ease of use, and built-in tools for simplifying common development tasks.

5. Project Initialization:

Utilized the npx command to create the HealthCare app using Expo. This command automatically pulls the latest Expo template, setting up the initial project structure.

6. Component Study:

Prior to project initiation, I delved into studying various React Native components, understanding their functionalities, and how they contribute to the overall app structure.

Conclusion:

The technical foundation is now in place for the HealthCare mobile app development project. By choosing React Native with Expo, we aim to capitalize on the benefits of cross-platform development while maintaining efficiency and ease of use throughout the development lifecycle.

This document serves as a reference for the technical decisions made in the initial phase, providing transparency and clarity regarding the programming aspect of the project.