

1 Abstract

2 Introduction

2.1 Project Motivation

2.2 Problem Outline

2.3 Project Specification

2.4 Report Structure

3 Background

4 Design

Discuss the control flow of the program, why it works the way it does etc...

5 Main Body

6 Decisions

7 Project Management

7.1 Schedule

7.2 Methodology

7.3 Tools

This project utilized several tools to aid in the development of this Android application. Two of the main tools used to add value to this project are outlined below, one from a development standpoint and one from a project management standpoint.

7.3.1 Android Studio

Android Studio was used as an IDE (Integrated Development Environment) throughout development as it comes with many useful built in features. These features are specifically designed with android app development in mind. Examples of these features are:

- Rendering engine which converts XML into how it will appear in the application itself
- Android phone emulator

The rendering engine enables both the ability to edit the XML tags and see the effects in real time, as well as the ability to edit directly into the rendering engine with a drag and drop feature. This enables quick prototyping for new pages through the use of the drag and drop feature whilst also allowing a much larger degree of control through the ability to directly edit the XML.

Use of the android phone emulator enabled quick and efficient testing cycles. When a feature was initially developed, it could be tested on a wide range of devices through the phone emulator. This add on enabled the emulation of any modern phone through the ability to download files specific to that device. The app could then be tested on an accurate test bed, seeing how the app would look and work on a mobile device. Tablets could also be emulated, which helped with ensuring the application worked on a wide variety of devices.

The Android Studio IDE greatly increased the efficiency of development. This was encouraged through the notion that it was only designed specifically for android development, and so could focus entirely on that. Being built upon the IntelliJ platform meant that code editing was incredibly smooth and intuitive.

7.3.2 Git

Git was used as version control for this project. This enabled access to the project from any device, anywhere, anytime. It also enabled the ability to revert back to an earlier version of the project if something went wrong. This meant that development could take place without fear of failure, as if anything went wrong the project could just be reverted to the last working state.

The repository for this project can be found at[x]. This repository is public and can be accessed by anyone. This enables anyone to see the code that would be running on their machines.

Git also logs the time when a change is made to the code. This enabled precise tracking of requirement completion and aided project management. DISCUSS THE GIT COMMITS AS WELL WHICH WERE USED TO KEEP TRACK OF WHAT WAS COMPLETED IN THE PROJECT AND THE RECENT CHANGES MADE!!!

7.4 Weekly Work????

Discuss weekly meetings with Ramanujan and the idea that you kept notes on everything you did and it is accessible in git. This shows that the project was managed okay. Commit messages are always helpful as well and were designed as a backup to this notes file.

8 Results

9 Conclusion

10 Future Work

11 Legal, Social, Ethical, and Environmental Issues

11.1 Legal Issues

11.2 Social Issues

11.3 Ethical Issues

11.4 Environmental Issues

12 References