* What are you planning on making?

I am aiming to develop a android mobile application for NHS employees, managers and HR. The Human Resources department will add a new employee or amend a existing employee information. The service managers will be able to allocate shifts to those employees depending on their job role. Employees will have access to their personal roster. Employees also will be able to book extra shifts online. There will be three separate logins for Employees, Service managers and HR. Employees and Managers could login using username and password. HR login will be implemented using Biometric fingerprint.

**Technologies and Materials:**

* What platforms/languages will you build it with ?

I will use Java programming language and SQLite/MySql for database. BiometricPrompt class of Java for Biometric authentication.

**Motivation research:**

I have volunteered for London based NHS Trust for many years. In this ongoing pandemic NHS staff efforts and contribution has given me inspiration to implement this application.

I have managed to achieve Initial idea from this application below. There will be significant changes on the GUI and other options.

**Graphical user interface, application

Description automatically generated**

**Existing knowledge:**

I have knowledge in Java for few years now. Refreshed my knowledge on Java in 2nd year module, also have gained MySql DBMS in 2nd year. I have knowledge in Oracle also.

**New knowledge:**

Using android studio to develop the application.

<https://google-developer-training.github.io/android-developer-fundamentals-course-concepts-v2/unit-1-get-started/lesson-3-testing,-debugging,-and-using-support-libraries/3-2-c-app-testing/3-2-c-app-testing.html>

**Timeline and milestones:**

Research and Specification: 01/06/2020 – 10/10/2020

Ideation and exploring different projects.

Prototyping: 21/11/2020 – 11/01/2021

* GUI on Android studio
* Interim project report

Development and testing: 14/01/2021 – 16/03/2021

Draft report submission.

Final implementation, write up and evaluation : 17/03/2021 – 14/05/2021

Showcases and Vivas : 15/05/2021 – 04/06/2021

Git repository : <https://gitlab.doc.gold.ac.uk/misla006/finalyproject>

Blog : https://misla006.tumblr.com