# .Mobile Project

In the groups assigned by your instructor, create a mobile application with as many of the features outlined below as possible. You are free to choose whether your group will create your app with Swift, Kotlin, React-Native, or Flutter…but your team must all agree with the decision. Any conflict with making this decision will default to your instructors pick of technology.

## Groups

### Set A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Team 1** | Denis | Lucas | Tony | Crystal |
| **Team 2** | Gina | Albert | Tasnuva | Sebastian |
| **Team 3** | Fausto | Sara | Tara | Thomas |
| **Team 4** | Kaiyuan | Priyanka | Eric | Athena |
| **Team 5** | Anna | Kasra | Peter | James |

### Set B

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Team 1** | Anthony | Don | Kimo | Vibha |
| **Team 2** | Ibrahim | Peter | Thomas | Tai Thien |
| **Team 3** | Tamika | Ming | Zhaleh | William |
| **Team 4** | Winson | Alex | Neil | Ivar |
| **Team 5** | Nicole | Brian | Nidhu |  |

## App Description

A mobile mock trading app that allows users to “Buy” and “Sell” stocks and track the progress of their “portfolio” over time. The purpose of this app is to let people practice investing in the stock market without real money.

### Feature List

* Register for an account
* Login/Logout
* Search stocks by symbol or company name
* Add stocks to a “watchlist”
* “Buy” and “Sell” stocks (simulating a market order)
* View their “Portfolio”
  + Current total portfolio value
  + List of current positions
  + Simple line chart of portfolio performance over time

You can allow all stocks to be in a single currency, ie. You are not required to implement any currency conversion between stocks of different currencies.

You do not need to implement any actual purchase or sales of stocks, this is meant to be a “mock”/gamified trading app.

You do not need to handle more complex orders such as limit, stop limit etc. You only need to mock market orders.

### Authentication

Each team will need to implement either a self-managed or cloud-based authentication system.

### Stock Data

Each team will need to use an API to pull stock data into your app. While there are numerous free and paid options, I recommend <https://finnhub.io/>. This project will be a prototype, so you are not expected to use any paid services.

### User Data

Each team will need to have persistent data storage for your user portfolio data. Please create a remote database along with an API with all appropriate endpoints exposed to your app.

### UI/UX

Please ensure that the user interface effectively implements the app features in visually pleasing and user-friendly manner.

## Version Control

Please ensure that a current build is hosted on github and the master branch is the current “deployment ready” version of your app. Each team will need to have a Github Project with an automated Kanban template connected to your main app repo. All daily work and commits must be done on branches other than master with regular pull requests to master to merge features or stand-alone parts of features into the master branch.

### Task Management

Create labels in your repo for scrum point values, all tasks should be created as issues within the project “To do” column.

Meet as a group each workday (30 minutes max, called a “standup”) to estimate point values for each task and discuss progress/blockers that each team member is having. At this time, you can also add any relevant documentation within the related GitHub issue(s). If any member is going to miss a standup, they are expected to post their update within GitHub prior to the meeting. This can be easily done via a Wiki page in your GitHub Repo:

#### Example SCRUM Report Wiki Markdown

|  |
| --- |
| ## Mobile Project Day 2  ### Member Name: [Student Name Here]  Share with your teammates what you have been working on here...  Be brief but not so brief that nobody can make sense of your summary.  Provide a breakdown of hours below the summary.  \* Task 1 - 1 hour  \* Task 2 - 2.5 hours  \* etc..  ### Blockers:  \* List any blockers (items preventing you from making progress in your area) |

### README File

Links to all project resources should be kept up to date in your repo README file

**Friday Task** –

UI prepared

Code for Register/Login/Logout

Get The company Name with symbols page ready ready

Add watchlist and insert chart for 1-2 companies.