



## **Assignment 1**

**Faculty of Engineering and Applied Science**

**Mobile App Development SOFE-4640U**

**October 4th, 2023**

**GitHub Link:** <https://github.com/mbarrett26/MobileAppDevEMICalculator>

Michael Barrett - 100779360

## **Objective:**

To create a mobile application to calculate EMI based on user input for principal, interest, and tenure. The UI features 3 fields for users to input information and a button used to calculate the resulting EMI in a result field below.

## **Layouts:**

Layouts make the UI more simple and user friendly, they can be used for aligning elements such as the text boxes and can contain views within them. For example this was used to align all inputs in the ui to prevent any issues and keep them centered.

## **Intents:**

Intents are objects for interacting with different components within the application.

Explicit Intents: Used to start a specific component within your own application (e.g., starting a new activity).

Implicit Intents: Used to request actions from components provided by other apps (e.g., opening a web page or sending an email). The Android system resolves these intents and determines the appropriate component to handle them based on the intent's information.

Intents were not needed as this was a simple one page app.

## **Views:**

Views are a fundamental building block of a user interface (UI). Views are used to create the graphical elements that users interact with in an Android app. Each View is responsible for rendering a specific UI component, such as buttons, text fields, images, or layout containers.

View Types: Android provides a wide range of predefined view types, such as TextView (for displaying text), Button (for user interaction), ImageView (for displaying images), and many more.

Views were used for the user input and for my calculation button, which then triggers another view at the end to display the resulting EMI.