



# SMUCTian App DEVELOPMENT DOCUMENTATION

## **PREPARED FOR**

Students of  
Shanto Mariam University of Creative Technology

## **PREPARED BY**

Md Al Momin Mostafa Tamim  
193061001  
CSIT 19th

# 1. Project Overview

Students of Shanto-Mariam University face an issue every time Mid or Semester Final occurs, And the problem is “How much should I pay? Is the Corona waiver available this time? What’s the last date of payment?”. And to solve this problem they previously had to call CR or call an advisor. To address this problem I would like to add a feature <SMUCTian app> called Fee Calculator. It will also be a stand alone application for the departments of CSE and CSIT and later for all the other departments

## 2. Obstacles

Our biggest obstacle is maintenance & security of student data. To solve this issue we are using firebase.

## 3. Technical Obstacles

Transferring data from pipilikaSoft database to firebase fire store.

## 4. Hardware

Our software will run on Android, iOS, MacOS, Windows and linux.

## 5. Software

- Android Studio
- Android SDK
- Flutter SDK
- VS Code
- Getx mini framework
- Firebase Suite

## 6. Milestones and Reporting

**Total estimation of man hours: 328**

Milestone	Tasks	Reporting	Done	remarks
1 - Analysis				
1.1	Analysis and design stage, gather data and create system mockup	None	Done	Fee Calculation
2 - Development				
2.1	Firebase Auth	None	70%	Full Integration is needed to work properly
2.2	Data Model	None	Done	
2.3	Firebase FireStore	None	70%	Full Integration is needed to work properly
2.4	Shared Preferences	None	Done	
2.5.0	Get X implementation	None	Done	
2.5.1	Back-end logic	None	80%	Have to connect fire store and shared pref for optimizations
2.6	Front-end	None	—	
3 - Testing				
3.1	Back-end logic testing Android application (Closed)	K M Tanvir Anjum	Done	
3.2	Back-end testing Linux application (Closed)		Done	
3.3	Open Beta (volunteer employees)		—	
3.4	Finalise documentation	None	—	
4 - Deployment				

4.1	Deployment to smartphones	None	—	
4.2	Deployment to desktops	None	—	
5 - Training				
5.1				Simple design, no training required.

## 7. Flow Charts and ERD:

