GLA UNIVERSITY, MATHURA

Department of Computer Engineering & Application

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MINI PROJECT SYNOPSIS ON FEE COLLECTION APPLICATION

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I hereby declare that this project work entitled "**Fee Collection Application**" has been prepared by our team during 2021-2022 under the guidance of Mr. Akash Kumar Choudhary, Technical Trainer, Department of Computer Science, GLA UNIVERSITY, MATHURA In the partial fulfilment of B.Tech degree prescribed by the college. I also declare that this project is the outcome of the effort of our team that it has not been submitted to any other university or college or any other institute for the award of any degree. We hereby declare that the project is done by us.

Thank You

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INTRODUCTION

This Application is particularly used to register students and collect Bus fees from them and store all the data to cloud.

About the Project:

Fee Collection Application is an Android mobile Application which we can download in android mobiles and maintain all the fees related records of students.

This Application have 3 main Sections:

1. Registration Section- In this section we register a student by using its primary fields like name ,course ,year ,stop ,phone and Photograph.

   On registration time Application will provide a unique 4 digit ID to every student (b/w 1-9999). By using this ID we can fetch any data of student.

2. Fee Section- This section generally used for all fee related queries like paying fees and or getting the fee status of students/students.

3. Registration List Section- This section contains the list of all the registered students in a recycler view format and we from here we can also get all the basic information like no. of students from a particular stop etc.

Primary Reason to Choose This Project

I have choosen this project because of the current scenario of my bus as maintaining record of hundreds of students is and Lakhs of fees calculation is not an easy task specially using pen papers specially when there are many students of same name and stop present.

And by using this application we can have every information of any student on different devices at a time which is practically not possible in case of papers.

The Main Obejctive of the Project

The Main objective of the project is to build an android app that can save lots of paper and provide and provide transparency in the system.

Scope of the Project

Apps that provide transparency within the system and helps in saving the paper definitely have bright scope.

In today's time as world is shifting to technology so we should also shift our traditional paper work to technical.

This app is for collecting fees so we can use it in Schools ,Bus, Coaching classes ,Gyms etc.

Working Methodology of the Project

This application tracks record of every student and provide alerts to collect fees of students after a fixed interval of time and after fees payment it save the fee status of student of that current month to the database and all this stuff is done by using google firestore database.

When we register a student a object of student type has been created to google firestore database with its all primary value and a filed named fee status. Initially after registration the fee status of student is false that is student have fees dues. By going on Fee section we can update the student's fees in the back end it just update the fee status field of student in database to true means fee is paid.

Details About the Hardware and the Software

System Requirements:-

Supported operating system:- **Android**

Software Required:- Operating System, Processor ,Storage ,RAMand Internet.

Hardware Requirements:-

For Android Studio:

64-bit Microsoft® Windows® 8/10.

x86_64 CPU architecture; 2nd generation Intel Core or newer, or AMD CPU with support for a Windows Hypervisor.

8 GB RAM or more.

8 GB of available disk space minimum (IDE + Android SDK + AndroidEmulator)

1280 x 800 minimum screen resolution.

Listing Out testing technology

Frontend and Backend :-

Frontend

For developing android app using JAVA language is front end .

Backend

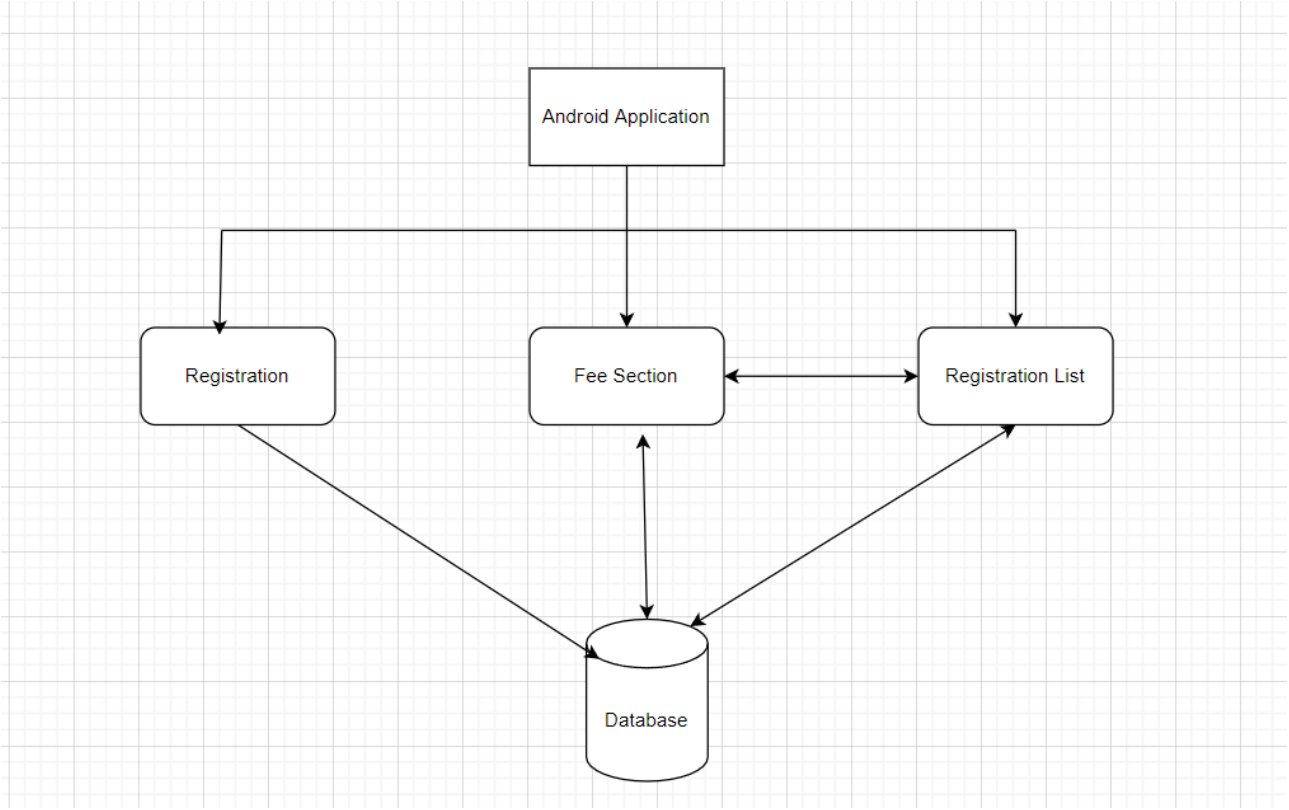
The backend of this app is Google Firebase Firestore database for storing the data andlater retrieve the data in app.

Module Description

To gain more transparency in fee collection system this application use face and given unique ID as a key .

Data Flow Diagrams

DFD:- A data flow diagram (DFD) illustrates how data is processed by a system in terms of inputs and outputs. As its name indicates its focus is onthe flow of information, where data comes from, where it goes and how itgets stored.



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