



National Institute of Technology, Hamirpur

NITH Intern Project

Attendance Management Android Application

Name : **Dayanidhi Gupta**

Roll No: **185065**

Programme: **B.Tech**

Branch: **Computer Science and Engineering**

Submitted to :

Dr. T P Sharma

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How to login as admin:

user name and password for admin is:

username: **admin**

password: **admin123**

1. INTRODUCTION

1.1. ABOUT THE PROJECT

This project is entitled as “ Attendance Management Android App”. The main objective of this project is to enhance the learning of mobile based technology. This is basically an android application which use sqlite database for managing and storing attendance as well as information and data of faculty and students.

With this application we can add faculties , view faculties details, add students, view students details and their attendance by date ,month and year.

This app is for administrator and faculty only.

Admin can add student and faculties with their details. Admin can also see the overall attendance of all students.

Faculty can take attendance of particular branch , year and subject and at a specific date. Faculty can also view Total attendance of student or also according to date, year and branch.

Disadvantages:

- This App is not for students but can also be made for students which would result more beneficial for students in tracking their attendance .
- The final result of this project is not very useful for the educational organisations to keep track and maintain the database of students in real time.
- We cannot update ,delete,add data in realtime. But it can be possible using Google's FIREBASE Database Technology. Which can do many database related transaction in real time. And Even student could access data or keep track of their attendance in real time.

2. SYSTEM ANALYSIS

2.1 PACKAGE SELECTED

Front End: Designing - **XML**, Development - **JAVA**.

Back End: **SQLITE**(extending **SQLiteOpenHelperClass**)

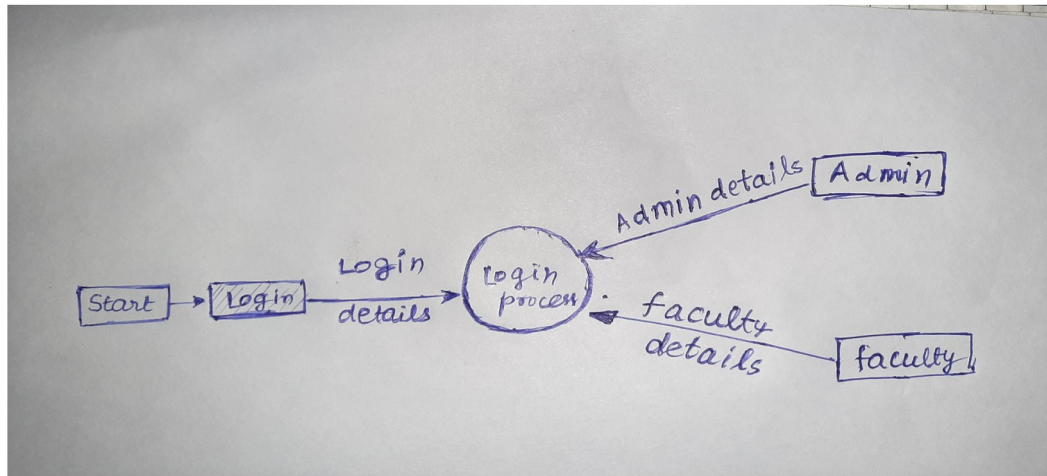
Operating System: **Linux Mint** (we can also work on other os like windows ,other linux distros)

Used ANDROID STUDIO for developing Android Application.

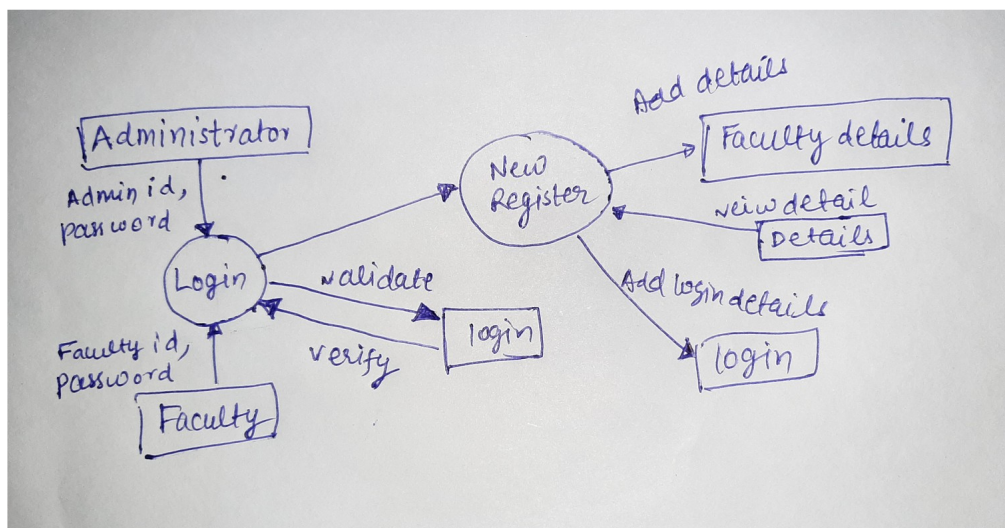
2.2. DATA FLOW DIAGRAM

Data Flow Diagram (DFD) is one of the best ways if documenting the entire functionality of the system. For any system, which will have some data inflows, processing and data outflows from the system can be documented or represented effectively by the means of the data flow diagram. It is a diagrammatic representation of the system.

LEVEL 0 DFD

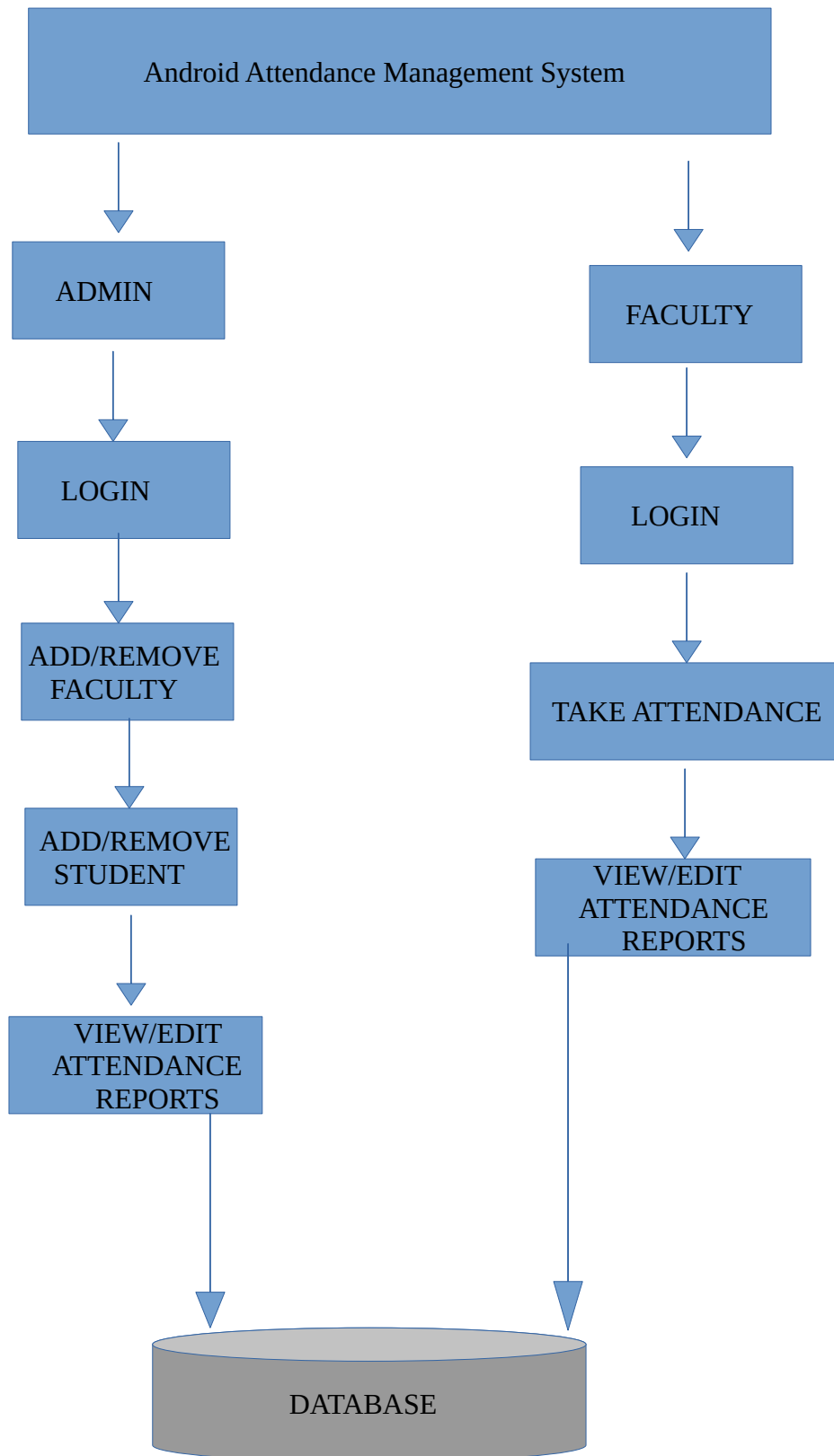


LEVEL 1 DFD

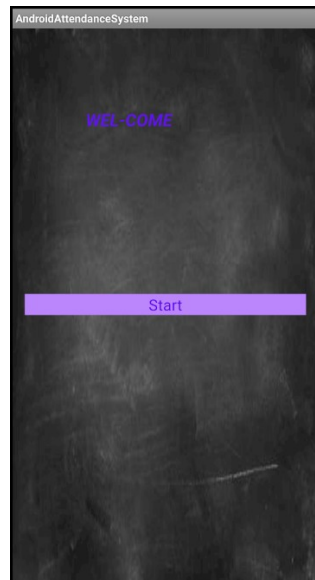


System Design

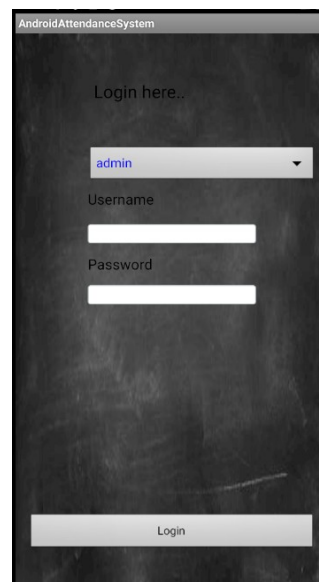
3.1 ARCHITECTURAL DESIGN



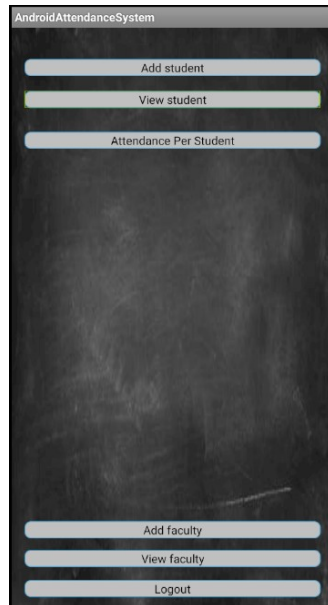
3.2 INPUT AND OUTPUT FORM DESIGN



WELCOME ACTIVITY



LOGIN SCCREEN(ADMIN/FACULTY)



ADMIN HOME PAGE

A screenshot of the "registration" form within the "AndroidAttendanceSystem" app. The form is titled "registration" and is set against the same dark, textured background. It contains several input fields, each with a label above it: "firstname", "lastname", "Mobileno", "Address", "Username", and "password". Each label is in a light blue font, and the corresponding input field is a white rectangle. At the bottom of the form, there are two light blue buttons: "submit" and "cancel".

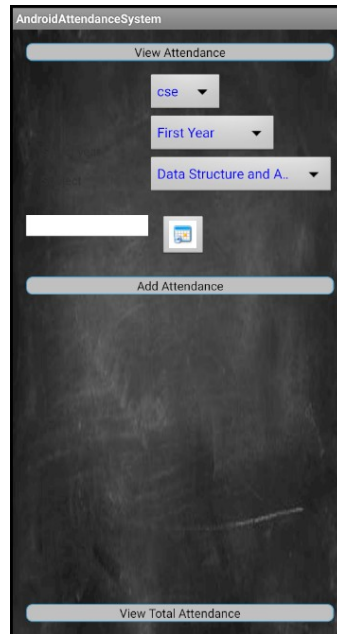
ADDING FACULTY AND ASSIGINING USERNAME AND PASSWORD

AndroidAttendanceSystem		
Present Count Per Student		
1.	s1f,f1s	1
2.	s2f,f2s	2
9.	s1fo,of1s	1
10.	s2fo,of2s	2

OVERALL ATTENDANCE OF STUDENT

AndroidAttendanceSystem		
FirstName: f1 LastName:1f		
FirstName: f2 LastName:2f		

VIEW ALL FACULTIES



FACULTY HOME PAGE



VIEW STUDENT

AndroidAttendanceSystem		
Id	StudentName	Status
1.	s1f,f1s	A
2.	s2f,f2s	P
3.	s3f,f3s	A
Date : 3 / 8 / 2021		

VIEW STUDENT ATTENDANCE

3.3 TABLES

Table Design

Table : faculty_table

Field Name	Data Type	Constraints	Description
faculty_id	INTEGER	NOT NULL	PRIMARY KEY AUTOINCREMENT
faculty_firstname	TEXT	NOT NULL	
faculty_lastname	TEXT	NOT NULL	
faculty_mobilenumber	TEXT	NOT NULL	
faculty_address	TEXT	NOT NULL	
faculty_username	TEXT	NOT NULL	
faculty_password	TEXT	NOT NULL	

Table : student_table

Field Name	Data Type	Constraints	Description
student_id	INTEGER	NOT NULL	PRIMARY KEY AUTOINCREMENT
student_firstname	TEXT	NOT NULL	
student_lastname	TEXT	NOT NULL	
student_mobilenumber	TEXT	NOT NULL	
student_address	TEXT	NOT NULL	
student_department	TEXT	NOT NULL	

Table : attendance_session_table

Field Name	Data Type	Constraints	Description
attendance_session_id	INTEGER	NOT NULL	PRIMARY KEY AUTOINCREMENT
attendance_session_faculty_id	INTEGER	NOT NULL	
attendance_session_department	TEXT	NOT NULL	
attendance_session_class	TEXT	NOT NULL	
attendance_session_date	DATE	NOT NULL	
attendance_session_subject	TEXT	NOT NULL	

Table: attendance_table

Field Name	Data Type	Constraints	Description
attendance_session_id	INTEGER	NOT NULL	
attendance_student_id	INTEGER	NOT NULL	
attendance_status	TEXT	NOT NULL	

Conclusion

4.1 Summary of the Project

This whole work is to access the details about the student attendance information and generate a final report. It is only based on local shared preferences but it can be made more effective when we can access student details in real time and for everyone using firebase. It is useful for faculty to manage attendance of students.

How to use:

->Just install the apk file .

->user name and password for admin is:

username: **admin**

password: **admin123**