Attendance Register

# Developer Guide for the Application



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**Requirements of the Application:**

* + - Application Used for student’s attendance register in ESAIP school of engineering.
    - It has two types of users: Admin and Faculty.
    - Admin can have some additional functionality other than the faculty
    - Admin can create new Students, add new Faculty, and store the data into database.
    - Admin can only create users and no other person cannot create the credentials in the application
    - Admin can add the name of the students and other details like surname, mobile number, address, subject, and semester of the students and faculty details. It will be added to the database.
    - Admin can create faculty in faculty we can add some details first name, last name, phone number, address of the faculty and username and password.
    - Faculty have login access and faculty can view students name and they can access to give attendance to students, it will be store in database.
    - Take attendance and keep them class wise.

# Technical Requirements

* + - By default, there is one admin user in the database where he/she can add the other student or faculty to the application. Application starts with the Login page, which gets the login credentials from the user and in the file it creates the SQLite instance and retrieves the data to the Array list and compares the current user credentials and serialize the current user data to the next page –Admin page. User data has been handled by the User class for making the better usage for comparison.
    - In Admin page the current user data from the login page has been deserialized and we extract the user type property of user which is defined in user class. If the User is admin, he/she can have all the access without any restrictions.
    - If the user is of faculty type, he cannot have access to certain UI buttons in this page such as ADD STUDENT page, ADD FACULTY page.
    - From Admin page if the admin user clicks on the ADD STUDENT button, he will be redirected to the page which contains fields such as name of the student, contact, address, semester details and course details.
    - If the add student details, we can add complete details about the students, and which is stored in database inside the phone.
    - In the VIEW STUDENT page, we can see the complete details about the student, and which is stored in database also.
    - Come to another button in admin page which is ATTENDANCE PER STUDENT. it can see the attendance details about the student and admin have only access to see this detail.
    - From admin page ADD FACULTY button use to enter the faculty registration form. In this page we can add complete details about the faculty, which is first name, last name, mobile number, address and here we can create username and password for login purpose. Then submit button to save the complete details into the database.
    - Then VIEW FACULTY page is used to display the faculty details in ESAIP school. Which is include the complete details about the faculty.
    - The after the LOGOUT button use to logout admin page
    - Come to the FACULTY login we can access the complete details about the student and add the attendance register into the page. which is mainly used to take and mark the student present or absent details which is stored in the database.
    - In faculty login we need to add the date of attendance which is included in this page. And add the subject and semester details.

# Details of Infra-Structure of the Application in the development:

* + - SQLite database and database Storage
    - **IDE:** Android Studio
    - **LANGUAGE:** JAVA
    - Android Device for testing the Application on each development phase

Using android device to test each phase.