

College Management System

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Abstract: *The Collage Management system is a user-friendly android operating system based application software platform designed to creating and managing student and faculty activity and collage information.*

Three type of user in application 1. Admin 2. Student 3. Faculty

Admin will manage student and faculty account and also collage information. admin can upload information of collage like course assign faculty work, verify user account.

faculty can take attendance of class and download attendance sheet char in excel file and post job and internship reference of company, and also approve type of query application of student. Student can apply job and internship through resume and student can manage own resume also view class time-table and attendance list. Student can write multiple type of application for specific faculty for take permission and give suggestion.

Keywords: collage app, dgi app

I. INTRODUCTION

The collage management application provide flexible way to communicate student to faculty and wise versa and easy to accessible collage and class information from anywhere and anytime. In this project leveraging Android SDK (Java) and Java web-services (J2EE) framework and non-SQL database (MongoDB)

The application aims to make paperless work and make every activity easy. The Java is a popular technologies for develop android operating system based application and also web application, web services with security.

While MongoDB use for data store and manage data

The application primary focus is show the collage information like collage provide courses and in collage upcoming events and happening result.

Collage management allow faculty can post job and internship and download particular job chart sheet of student data who has apply that job and student can apply job and internship automatically through fill resume details. Student make resume only one time and use for apply job.

Faculty can take attendance of class student and download chart sheet in excel file and student can view all attendance of class for particular subject and also get overall percentage of attendance.

In collage management application have share collage bus location status by single user in bus can share current bus location and all application user can get current location of bus for particular route.

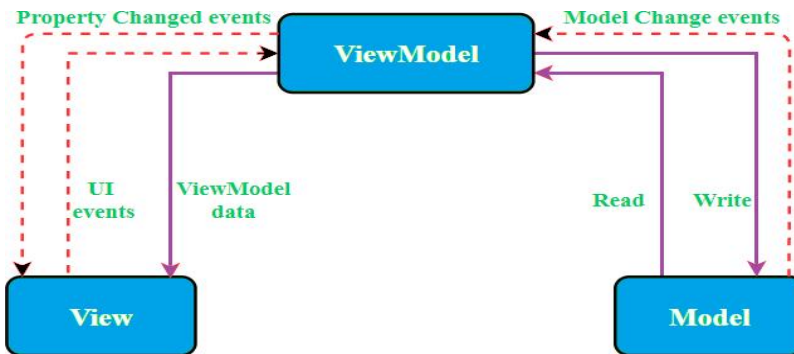
And one most important feature of application is student can write multiple type of application like- Leave application or any suggestion for faculty and send that application to particular faculty and faculty will get notification for application, and faculty can view application in format and can approve application or reject application, when action will take faculty then automatically notify that particular user through notification message

II. ARCHIECTURE

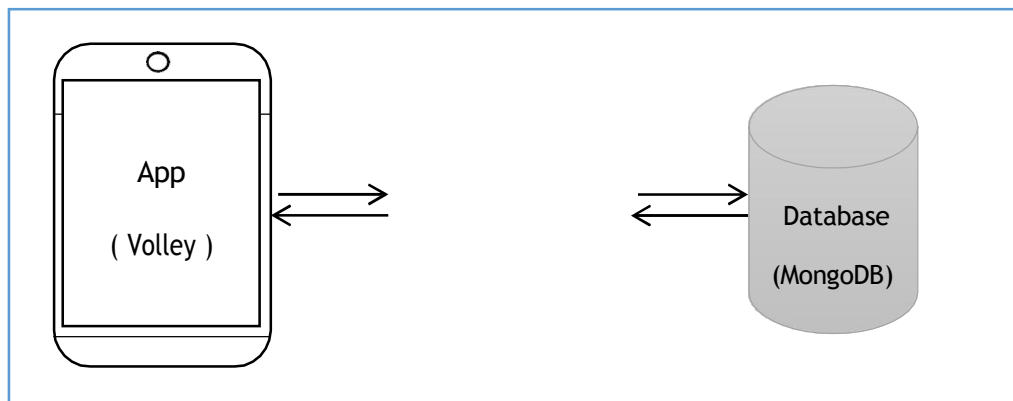
The Collage Management android operation system based application software build using Android SDK in Java.

Design Architecture

- This application created using **MVVM** architecture with data-binding, this development architecture in
- **M:** Model : this layer is responsible for abstract data with ViewModel using set and get data
- **V:**View : this layer purpose is inform to the view-model while user take action and this model observe ViewModel layout
- **VM:** ViewModel : it is exposes the data which is relevant to View



- **Network connection** Volley is a library for HTTP protocol use to communicate with network and make connection faster, it schedule automatic network request. And support multiple concurrent network connection
- **API's** Java Servlet use to make REST-API and store data in MongoDB



III. CONCLUSION

The Collage Management system, developed using the Android SDK (java) and Java REST-API with MongoDB framework, it is user-friendly software platform for student and faculty of collage and also admin, the main goal of this application easy to deliver information of collage and all activity of class by admin and faculty for students, in this application have attendance, leave application, Job & internship post and time-table feature for faculty they upload and student can view table-table, attendance, bus-status, apply job, write application. And admin can upload happening result, upcoming event, time-table, assign faculty subject, verify user account.

Collage management system are a usefully for collage registrar and faculty also student, it make easy to manage activity of collage and it is provide flexibility to view information from anywhere

IV. ACKNOWLEDGMENT

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