

Department of Computer Applications.
4th Sem MCA - MINI PROJECT
Jan - May 2019

Synopsis

Project Title: *Vibhaag Mobile App*

Abstract: An Android/iOS companion mobile authentication application for the original *Vibhaag* web application. The application consists of two components, one being the mobile application for end users, that acts as a companion and authentication for the web application another being the web application for college management.

The mobile app is responsible for recording the actual events occurred when the class is held. It records the time, date and location of the incident by a QR Code and sends the data securely to the web application which in turn stores and processes the information. The processed summary can be viewed by the faculties at their convenience.

Key features of *Vibhaag* mobile app include:

- Authenticating users into the mobile and web application and personalize their account
- Details of the faculties and other relevant details can be viewed in the mobile app
- Notifies the faculties about the change of time table in advance
- Faculties can register their attendance and time taken for a class
- Uses Camera SDK to scan QR codes and processes the information

Software Requirements:

- Front End:
 - React.js v16.x, Redux, React Native v0.57
- Back End:
 - Node.js v10.x, Passport.js
- Database:
 - MongoDB v4.x
- Deployment and DevOps:
 - Ubuntu Sever 18.04, Android SDK, iOS SDK

Hardware Requirements:

- AWS Elastic Cloud Compute instances x3, each of 2 GB RAM, 30 GB SDD
- 1 Android phone and 1 iOS phone for testing and debugging

Team Details:

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