SmartAttend_V1.0

Team Members, Class ID:
Chakra Pavan Kumar Kota,
Dharani Muli.

1. TITLE: SmartAttend

2. MOTIVATION

By observing some of the concerns faced by instructors in every class to track the attendance we were motivated to provide a solution to eradicate the issue.

3. OBJECTIVE

To bring ease in tracking the attendance for instructors.

Systems Features:

    i. **For Instructor**
        1. Login
        2. Generate QR code
        3. Attendance Report
        4. Detailed Report

    ii. **For Student:**
        1. Login
        2. Take Attendance
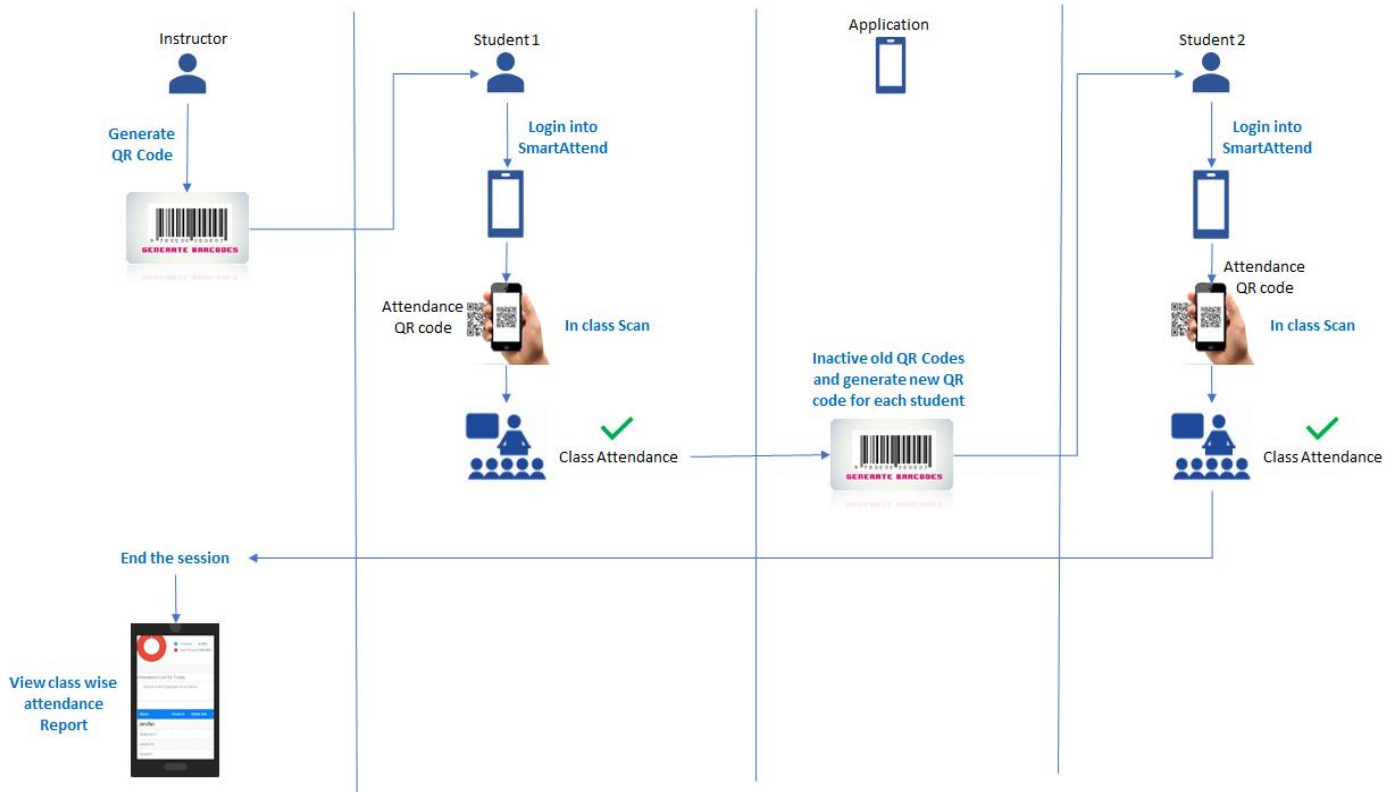   3. Attendance report

    iii. **Other:**
        1. Deployed into play store

4. TOOLS, LANGUAGES AND PLATFORMS

1. Ionic 4
2. Html5, CSS3
3. Angular 7
4. Mongo DB
5. Expressjs
6. Node.js
7. Heroku
8. Android SDK
9. X-Code
10. WebStorm
11. Github
12. App Store
13. Google paly store

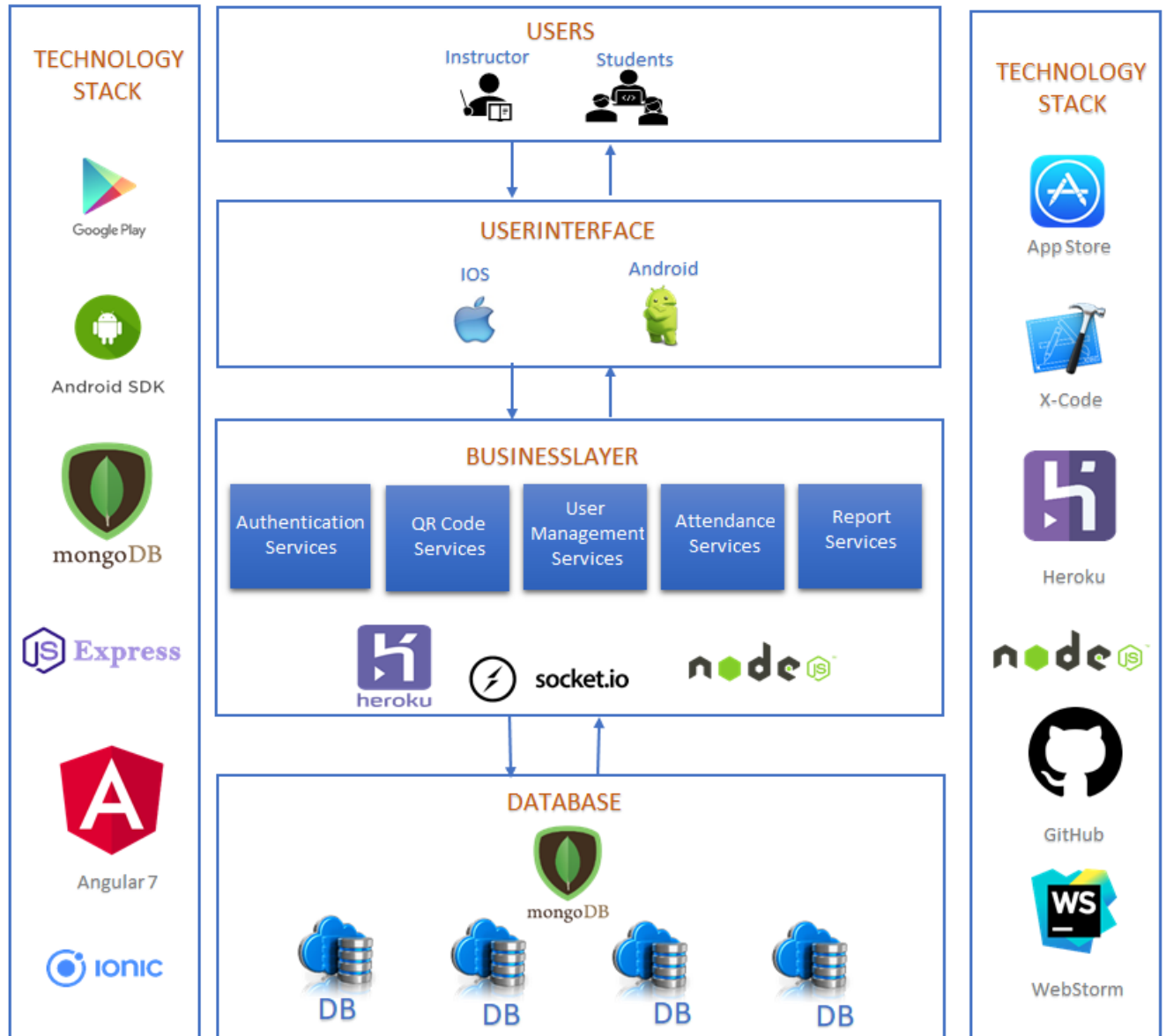**5. TYPE OF PROJECT:** Development (Mobile application)

6. BLOCK DRAGRAM:

7. ROLE OF TEAM MEMBERS:
- Research – Pavan (owner), Dharani
- Documentation – Pavan, Dharani (owner)
- Development – Pavan (owner), Dharani
- Project Management – Pavan, Dharani (owner)
- Performance Evaluation: Pavan, Dharani (owner)

8. SYSTEM ARCHITECTURE:

SYSTEM ARCHITECTURE

9. PRODUCT JOURNEY

10. FUTURE FEATURES:

1. App store deployment
2. Securable application
3. User should request instructor to add attendance if they user is unable to take the attendance. Ex: if student don't have phone
4. Build Statistics
5. Late Attendance tracker
6. Course wise attendance
7. Enhancements in Reports
8. Make Robust
9. Web based application for Instructor
10. Instructor profile management
11. Student Profile management

11. SCREENSHOTS OF VERSION_1.0
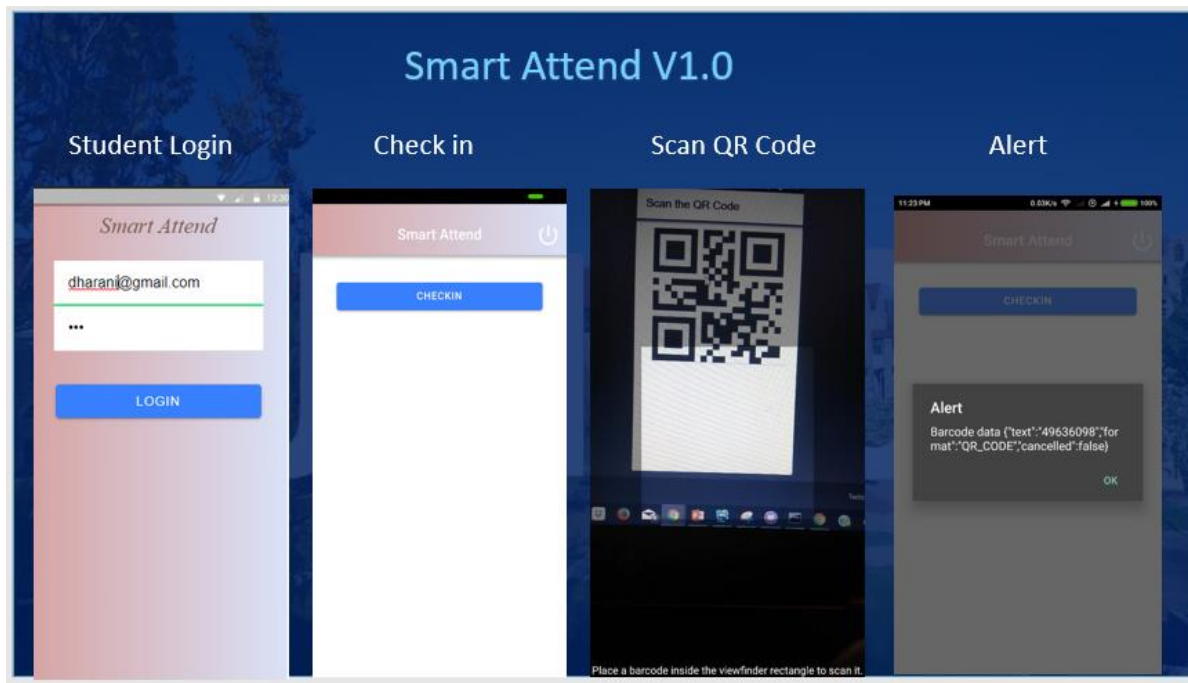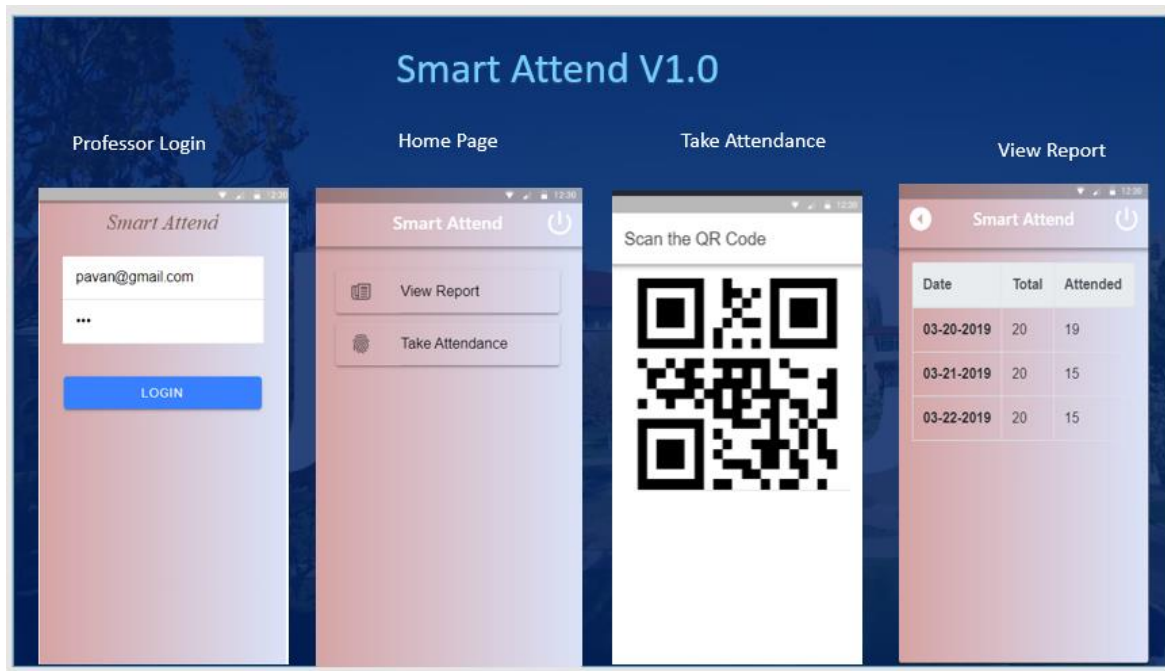
12.SCREENSHOTS OF VERSION_1.1

← 🔍 ⋮

UMKC Smart Attend

Chakra Pavan Kumar Kota

Education

UNINSTALL	OPEN

What's new ●

Last updated May 1, 2019
UMKC Smart Attend Release

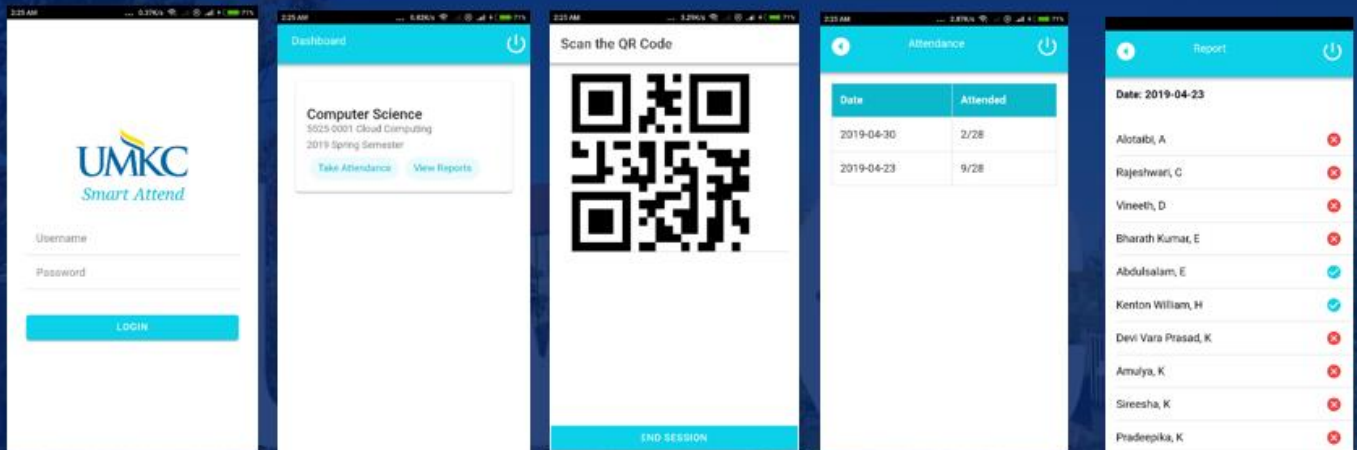Implemented features:

READ MORE

Your Review

Ⓟ Pavan Kota
★★★★★ 5/2/19 ⋮

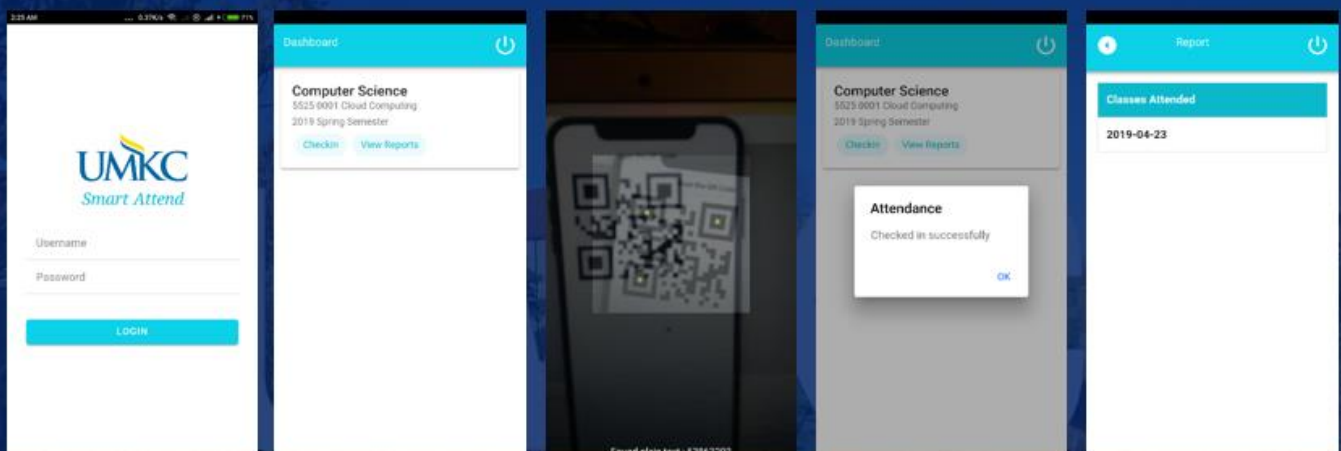**Edit your review**

Developer contact ⌃

Android : Instructor app Screenshots

Android : Student app Screenshots

IOS : Instructor app Screenshots

IOS : Student app Screenshots

13. EXPECTED PROJECT POUTCOME

1. Build a real time attendance app
2. Easy to use
3. Support IOS and Android

14. CHALLENGES AND FINDINGS

1. **Problem** : New QR code generation after every check in.
   Solution : Socket implementation
2. **Problem** : Deployment is needed for every change in backend
   Solution : Implemented CICD using GitHub and Heroku.
3. **Problem** : Digitally signing apk is a cumbersome process
   Solution : Hunted through google documentation.

15. INDIVIDUAL LEARNING OUTCOME

Chakra Pavan Kumar, Kota:

1. By end of the project I had hands-on experience on mentioned software tools.
2. Explored the functionalities of cloud services.
3. Developed and published IOS and Android app.
4. Worked and collaborated in an efficient way with team.

Dharani, Muli:

1. By end of the project I had hands-on experience on mentioned software tools.
2. Also gained knowledge of the best coding standards.
3. Developed and published IOS and Android app.
4. Improved collaboration skills working in a team.

OUR GITHUB REPOSITORY

Front End:
https://github.com/pavankotas/SmartAttend
Back End:
https://github.com/pavankotas/SmartAttendBackend
Wiki Link
https://github.com/pavankotas/SmartAttend/wiki