



ALLIANCE
UNIVERSITY

Alliance College of Engineering and Design

Bachelor of Technology

Fortnightly Status Report for IIP

Fortnightly Report No.: 1

Date :31/08/2024

Reg. No: 2021BCSE07AED466

Name of the Student: Kushal Gowda SD

Submitted to: Dr. R.Jayabhaduri Radhakrishnan

Title of Internship Work: PresentPlus iOS App

Summary

During the internship, the PresentPlus iOS App was developed to streamline and enhance the attendance tracking process within educational institutions. The primary objective of the project was to create a user-friendly iOS application that facilitated efficient attendance management for both students and instructors. Key responsibilities included the design of an intuitive interface, the implementation of attendance verification through automatic code generation, and the integration of Firebase for secure backend services.

The project methodology followed several stages, starting with requirement analysis based on user feedback and research. Design and prototyping were conducted using tools such as Sketch and Figma. Development was carried out using Swift and Xcode, followed by comprehensive testing to ensure functionality and reliability. The app was continuously refined through an iterative development process based on user feedback, optimizing its usability and performance.

This internship provided valuable learning outcomes, including mastering iOS app development and backend integration with Firebase, while offering a deep understanding of the complete project lifecycle from planning to deployment. Running from June 13, 2024, to July 13, 2024, the internship concluded with the successful delivery of a fully functional, user-tested app that significantly improved the attendance management process in educational settings.

Work carried out during the fortnight under report:

- A. Virtual Visits to Departments in the organisation if any:** Yes
- B. Training undergone in the organisation if any:**

Received hands-on training in iOS app development, including Swift programming, Xcode, and Firebase backend integration.

C. People with whom you have interacted in the organisation, if any and outcome of such interactions:

Interacted with senior developers and team members, discussing best practices for user interface design, app security, and real-time data management. These interactions enhanced my understanding of app scalability and performance optimization.

D. Visits to Institutions / Libraries / Companies, if any:

Yes, Centre of Excellence in Apple Lab at Alliance University.

E. Designing/Modelling of any form full or partial, if any:

Designed the interface for the PresentPlus app using Sketch and Figma, focusing on user-friendly layouts for both students and instructors.

F. Research Papers / Articles read / Internet searching results, if any: Studied articles and documentation on Firebase backend integration, iOS app development best practices, and automatic code generation for attendance verification.

G. Analysis of Data collected:

Yes, I collected student data from the college to test and validate the app's attendance tracking functionality.

H. Draft write up prepared, if any:

Project documentation and testing reports.

I. Problems encountered, if any: If yes, how did you solve?

Challenges with Firebase integration, resolved by consulting online resources and feedback from mentors.

J. Proposed steps during the next fortnight:

In the upcoming fortnight, I aim to finalize the project report for the work I completed. This includes refining the project documentation and ensuring that all technical aspects are well-detailed. The report will summarize my contributions, learnings, and outcomes from the internship.

Date:31/08/2024

(Signature of the student)