



ALLIANCE  
UNIVERSITY

Alliance College of Engineering and Design

## Bachelor of Technology

### Fortnightly Status Report for IIP

**Fortnightly Report No. :**

**Date :** 31/08/2024

**Reg. No:** 2021BCSE07AED475

**Name of the Student:** MANOJ B C

**Submitted to :** Rajkumar N

**Title of Internship Work:** PresentPlus iOS App

#### **Summary**

During my internship, I developed the "PresentPlus iOS App," an application aimed at streamlining and enhancing the attendance tracking process within educational institutions. The primary objective of this project was to create a user-friendly iOS application that facilitated efficient attendance management for both students and instructors. My key responsibilities included designing an intuitive interface, implementing attendance verification through automatic code generation, and integrating Firebase for secure backend services.

The project methodology encompassed several stages: requirement analysis based on user feedback and research, design and prototyping using tools like Sketch and Figma, development using Swift and Xcode, and comprehensive testing to ensure functionality and reliability. By following an iterative development process, I continuously refined the app based on user feedback to optimize its usability and performance.

The internship provided me with valuable learning outcomes, including mastering iOS app development, backend integration with Firebase, and gaining a deep understanding of the complete project lifecycle from planning to deployment. The internship, which ran from June 13, 2024, to July 13, 2024, 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:**

No.

**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)**