



Automated Attendance System

Course: CSE 4408 – System Analysis and Design Lab

Team Composition

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Introduction

This project is about building an automated attendance system that is fast, reliable, easy to implement and less sophisticated hardware oriented than the systems that are currently in use at other places. Our system aims at solving the problems of current analogue attendance system through a way that is convenient for both teachers and students. Through the implementation of regular day hardware that everyone uses, like mobile phones and computers, we wish to automate the attendance system in a simple but effective manner.

What will our system do?

Our system comprises of two major parts, one for the students, the other for the teacher. In short, every class, using the system, the teacher would generate a QR code that will be shown through projector. The students will log into SIS (Student Information System) and scan the QR that would give them present. The teacher can review and modify the attendance and also get all related reports connected with attendance like percentage, whether any student is defaulter or not and many others. A limited time window and secured log in will provide security to the system.

Problems in Current System

- ▶ Manual
- ▶ Time consuming
- ▶ Prone to error
- ▶ Prone to proxy
- ▶ Difficult to manage and store
- ▶ Requirement of manual calculations for attendance related information

Proposed Solution

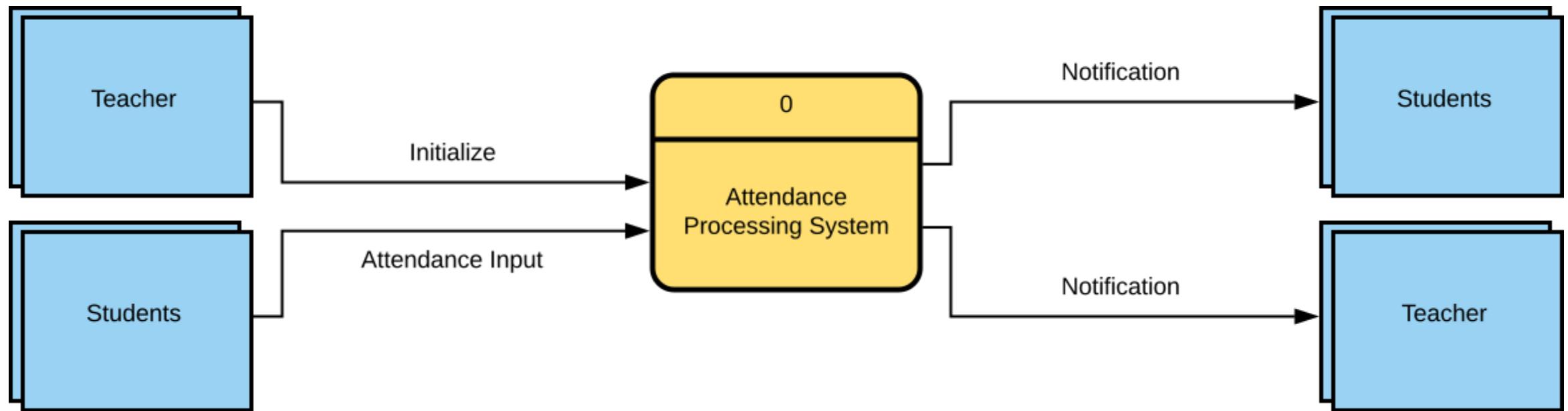
- ▶ An automated system
- ▶ Quick attendance taking
- ▶ Accurate
- ▶ Secured
- ▶ Auto management and storage
- ▶ Automated and real time calculation of attendance information and report generation

Diagrams and Work Flow

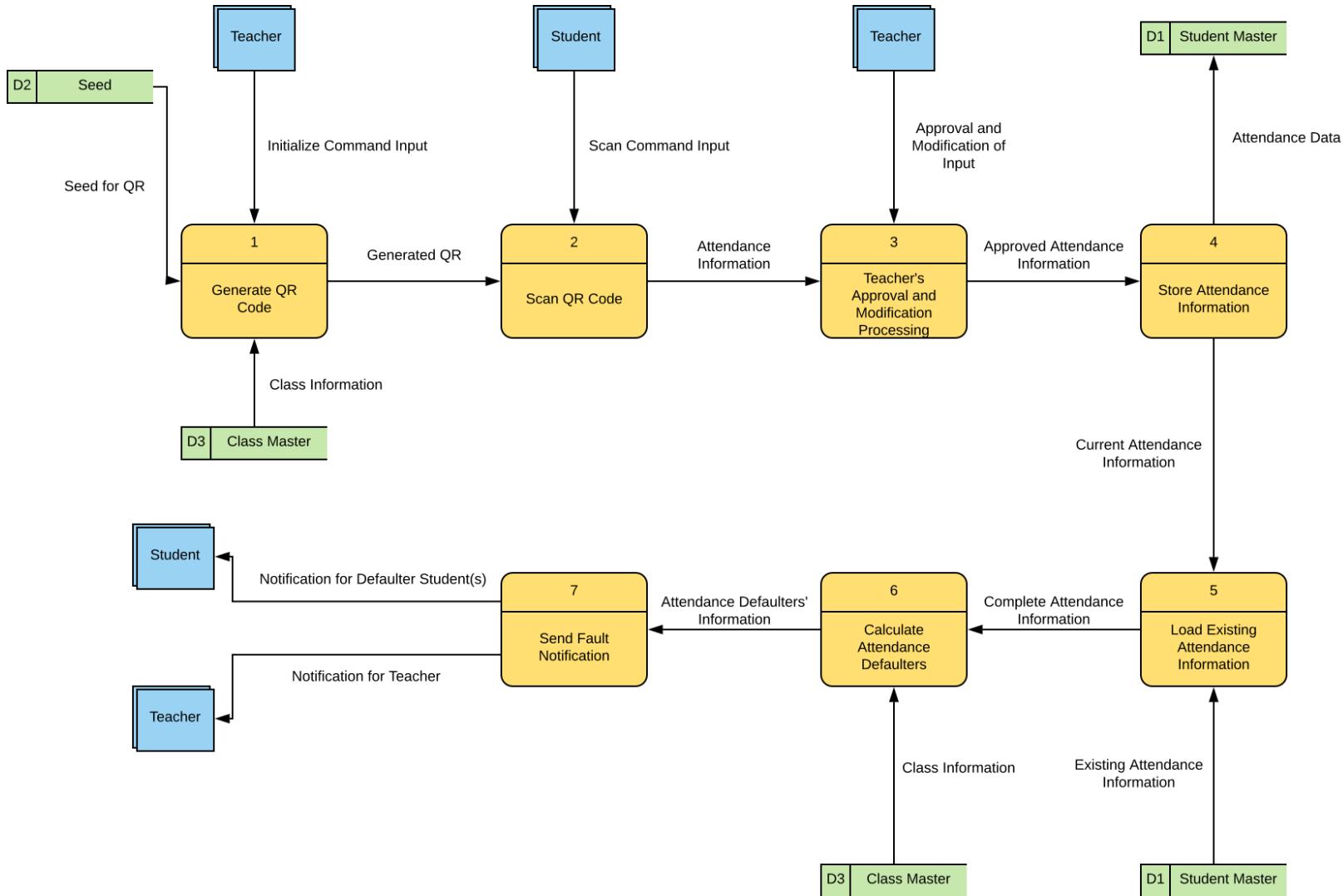
Data flow, class and sequence diagrams

Data Flow Diagrams

Context Diagram

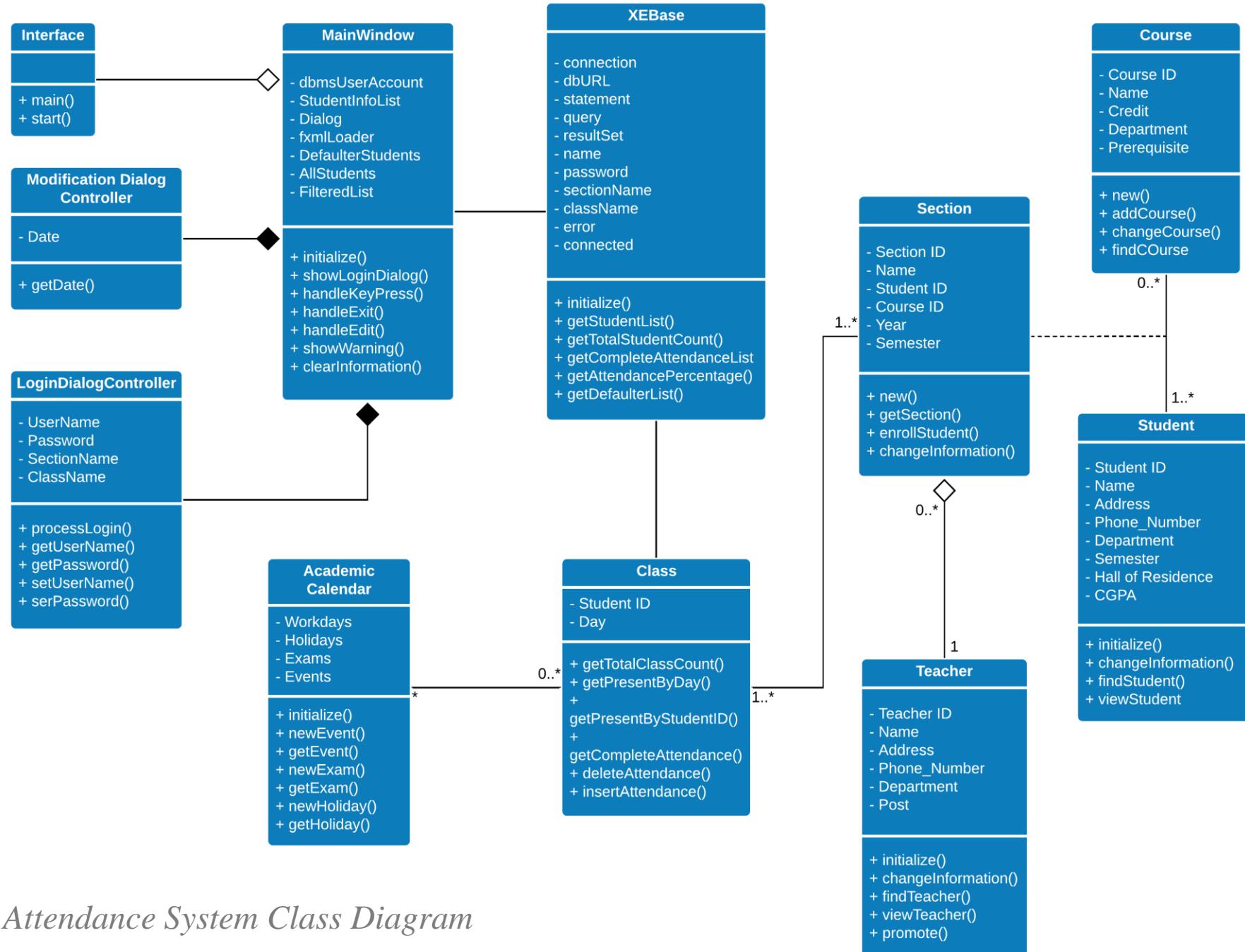


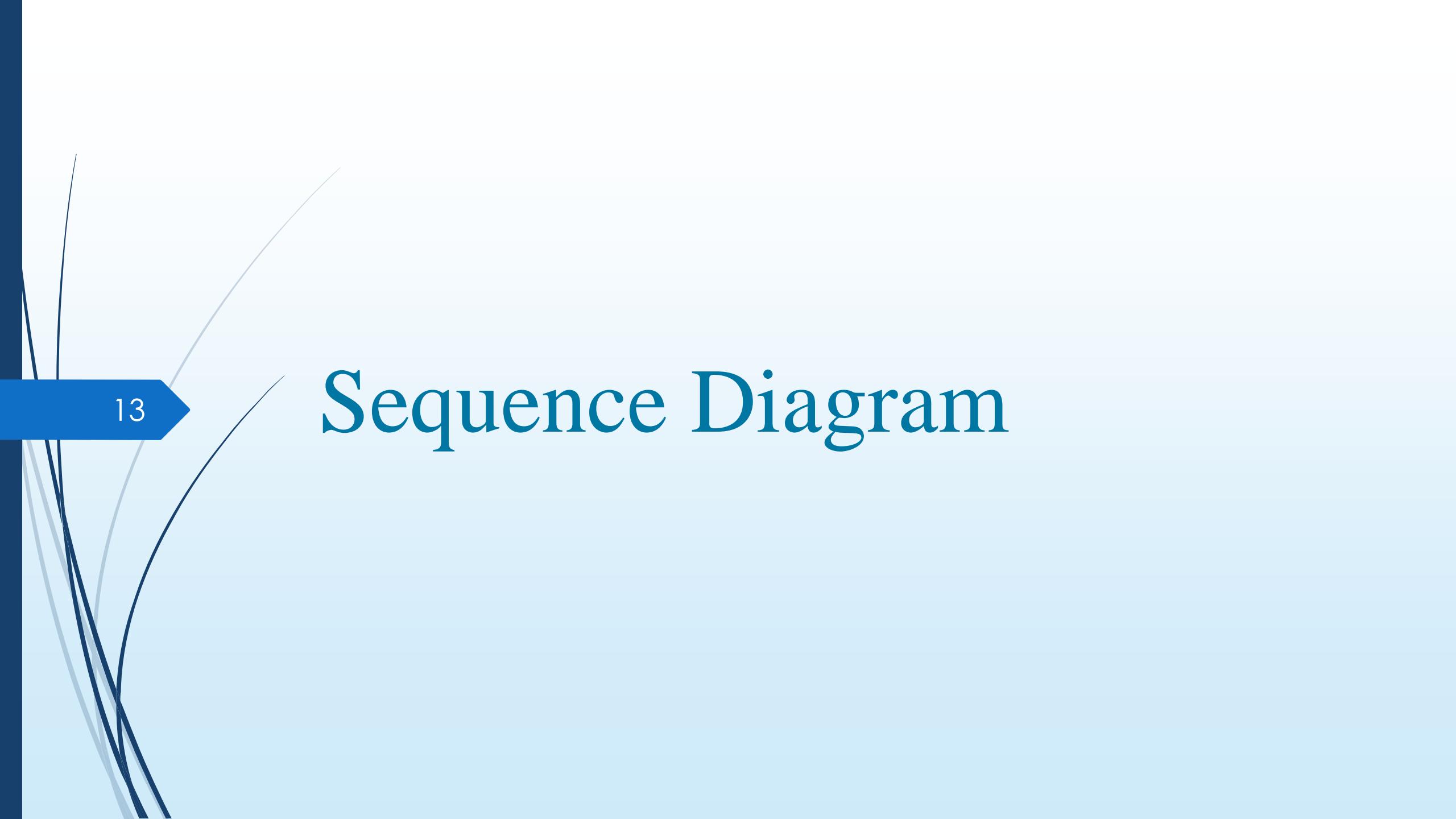
Zero Diagram



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Class Diagram

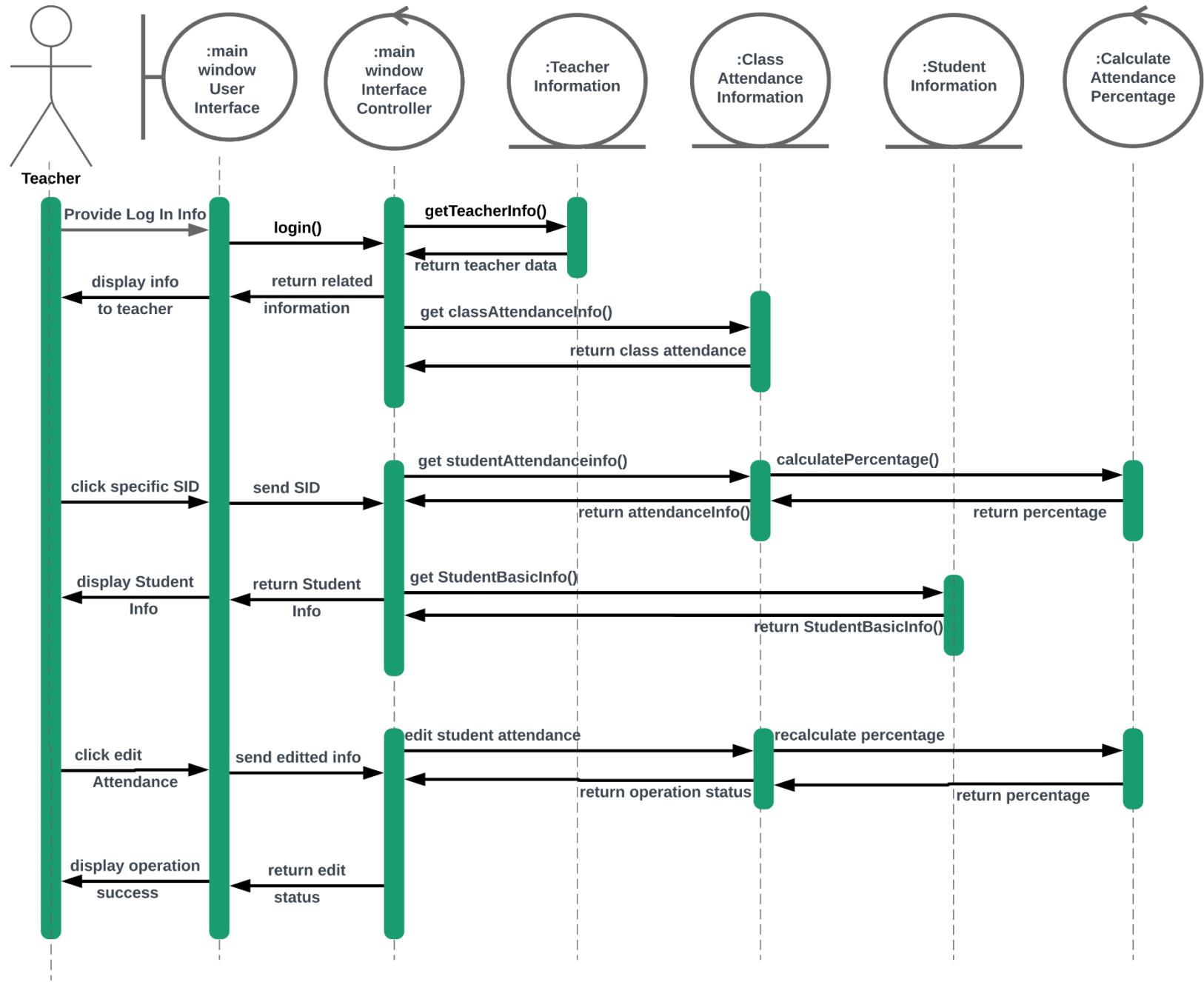


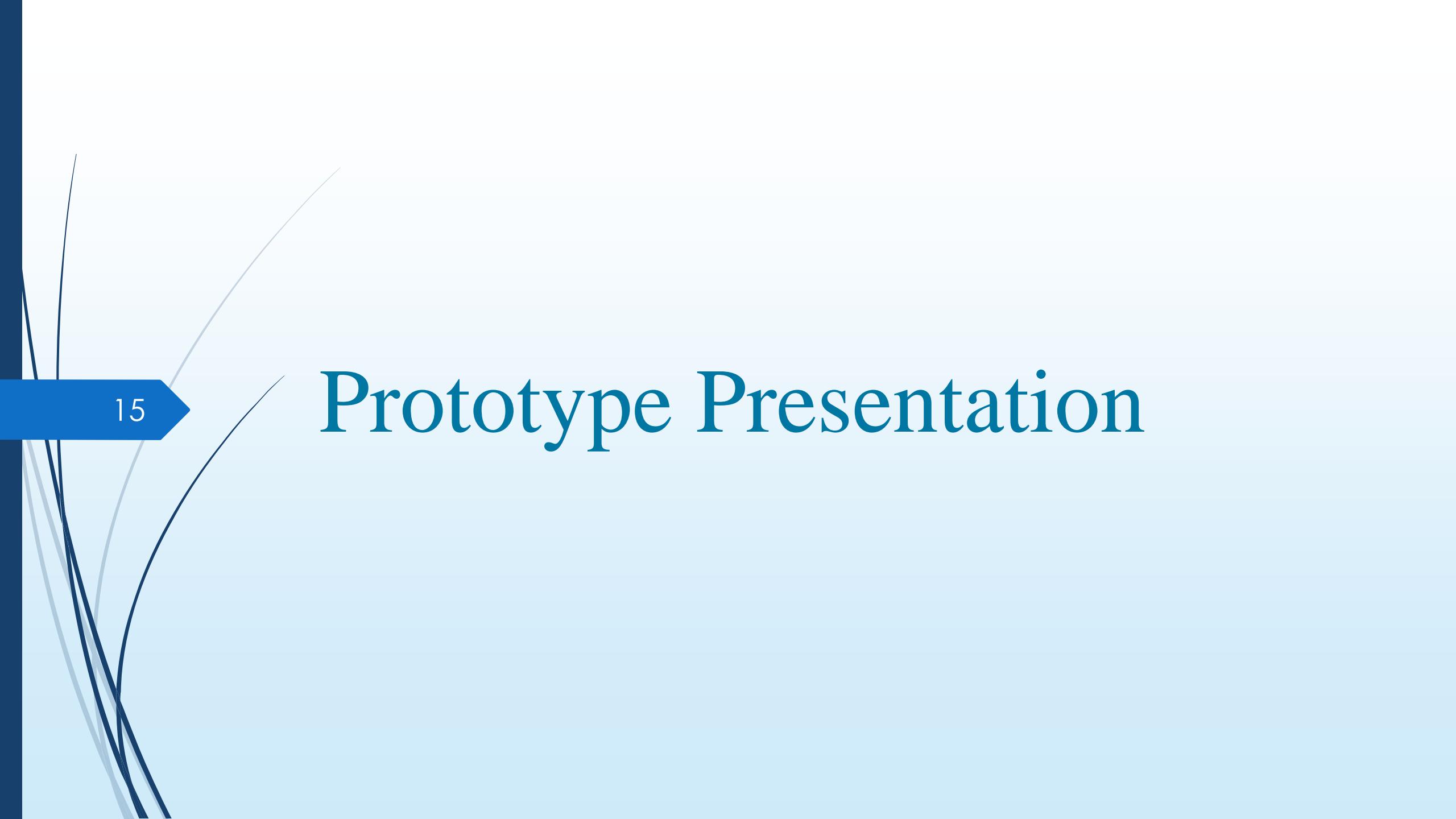
The background features a dark blue vertical bar on the left. Overlaid on the right is a light blue rectangular area containing a blue arrow pointing right. Inside the arrow is the number '13'. Several thin, curved lines in shades of grey and blue radiate from the top left towards the center.

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Sequence Diagram

Attendance System Sequence Diagram





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Prototype Presentation

Conclusion and Future Works

In this project, we attempted to introduce a cost efficient but effective attendance system that would solve the current issues in the attendance system of IUT. Due to the lacking of time and various other works, we only managed to develop prototype for one part of the system. In the future, we wish to complete the whole system and put it for a test run. At the same time, in the big picture, we wanted to develop a complete app system for IUT that would let students do all of their various activities while managing daily and academic life. So as a continuation of this project, we wish to achieve such a system in the future.

Thank you all!!!

Any Questions?