

# **Software Construction & Development**



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# Introduction

RIPHAHLINK is a web-based attendance management system designed to modernize and streamline the attendance process in throughout different campuses of the well-known RIPHAI International University all over Pakistan. Built with security, stability and user experience as its core, RIPHAHLINK would empower the university, teachers, students to engage with a live tracking software enabled to mark the attendance with ease and high reliability with a transparent and efficient process. This system would support real-time check-in's via QR codes, automated reporting and role-based access control. It would be optimized for both desktop and mobile use, ensuring accessibility for all the relevant stakeholders. RIPHAHLINK aims to reduce administrative overhead, improve academic accountability and also serve as a model for digital transformation in the educational market and world.

## Stakeholders

This project would aim the following stakeholders:

- University Administration
- Teachers
- Students
- Co-ordination Offices

## Functional Requirements

This project shall have the following functional requirements

### 1. Teacher Module

**FR 1.1:** Teacher will be able to login through OTP/Password or recover password

**FR 1.2:** Teacher will be able to create and manage class schedules

**FR 1.3:** Teacher will be able to mark attendance manually or via QR Code scan

**FR 1.4:** Teacher will be able to view attendance history & generate downloadable reports

**FR 1.5:** Teacher will be able to flag students with low attendance.

## **2. Student Module**

**FR 2.1:** Student will be able to login through password/OTP request

**FR 2.2:** Student will be able to mark attendance

**FR 2.3:** Student will be able to view personal attendance dashboard

**FR 2.4:** Student will be able to receive alerts for attendance thresholds

**FR 2.5:** Student will be able to submit leave applications to teacher/faculty

## **3. Admin Module**

**FR 3.1:** Admin will be able to add, edit or remove users & customize permissions

**FR 3.2:** Admin will be able to monitor attendance trends across departments

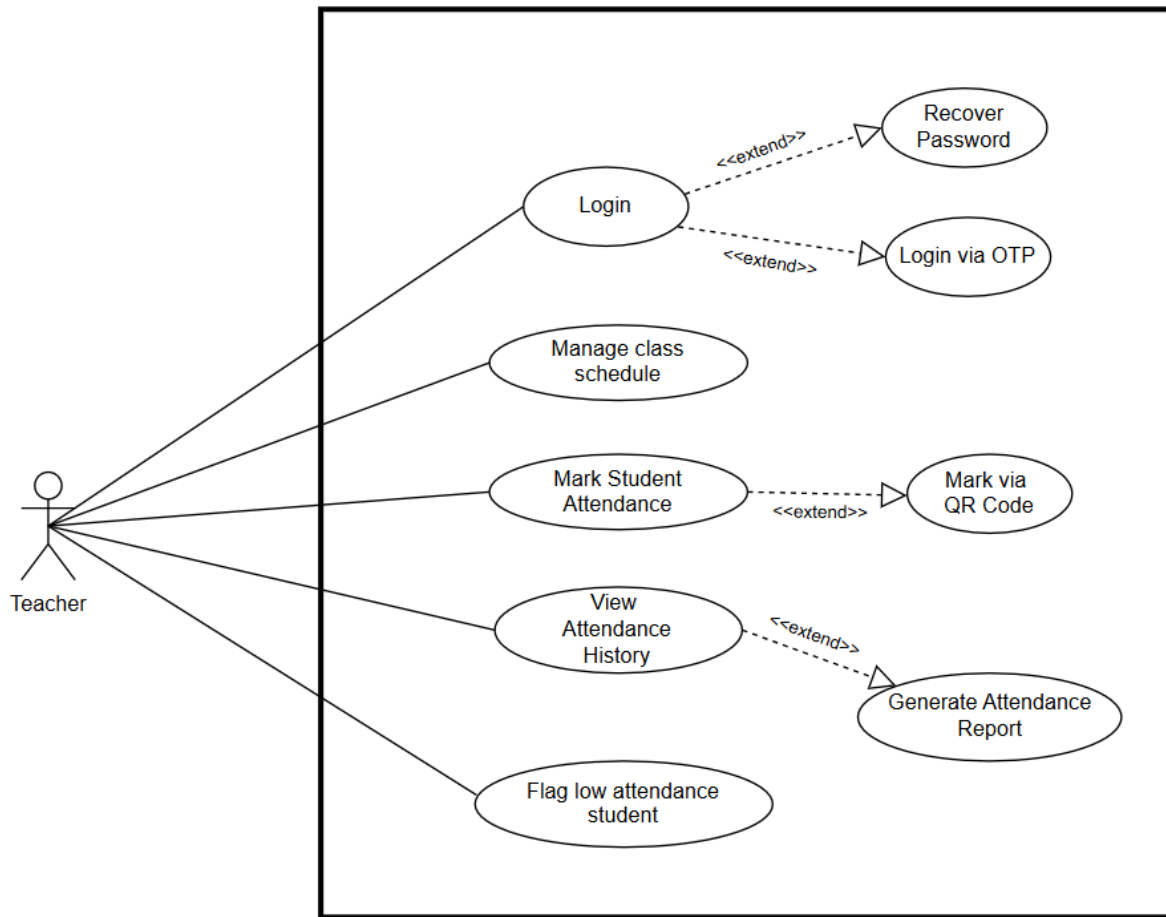
**FR 3.3:** Admin will be able to export data for audits or compliance.

**FR 3.4:** Admin will be able to configure system settings and institutional policies.

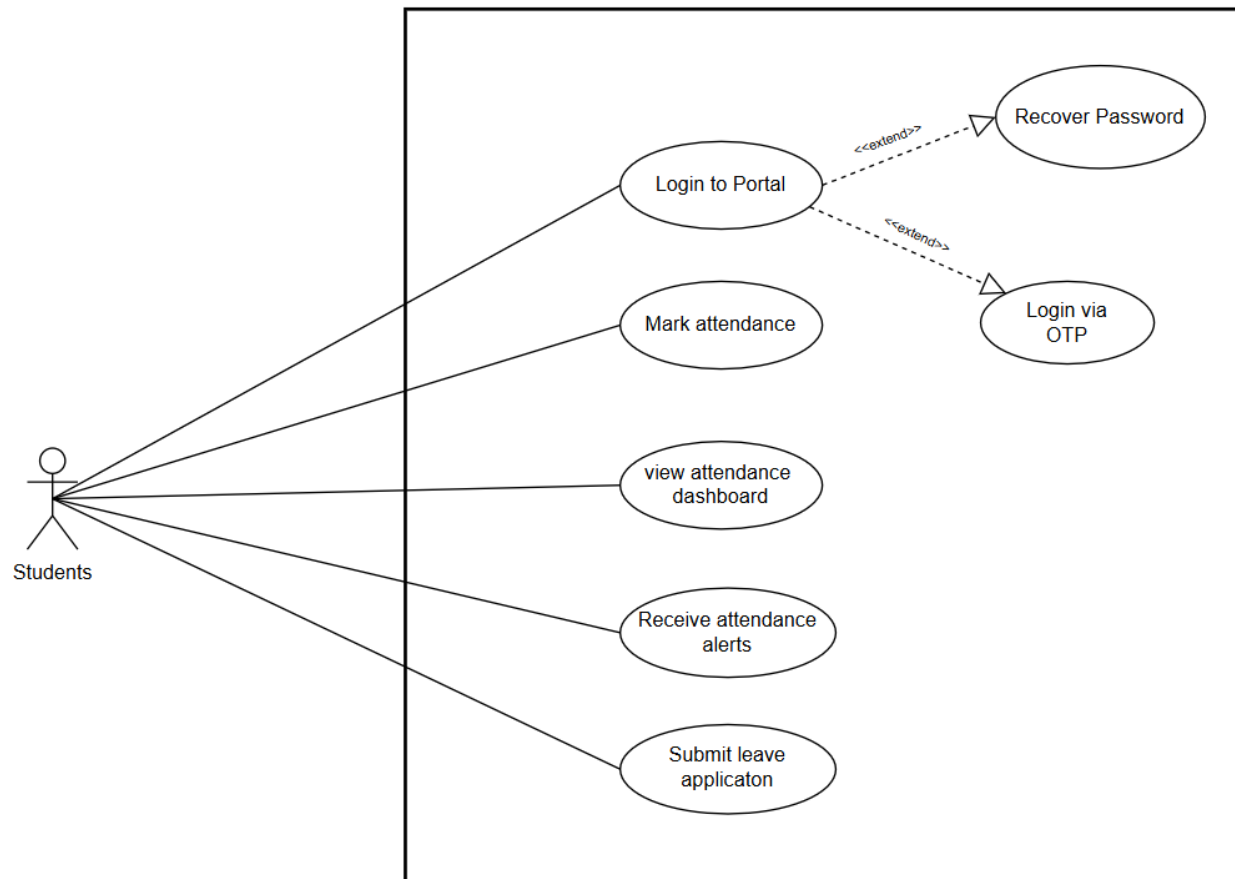
**FR 3.5:** Admin will be able to upload department wide notifications

## Use Case Diagram

### Teacher Use Case



## Student Use Case



## Admin Use Case

