

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 RIPHAH 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
- IT Department
- Student's Faculty

Functional Requirements

This project shall have the following functional requirements:

Authentication & Access Control

- Secure login for Admin, Teacher and Student roles.
- Password encryption and session management
- Role-based permissions for feature access

Teacher Module

- Create and manage class schedules
- Mark attendance manually or via QR Code scan
- View attendance history & generate downloadable reports
- Flag students with low attendance

Student Module

- Check-in via QR code or login interface
- View personal attendance dashboard
- Receive alerts for attendance thresholds
- Submit absence justifications (optional)

Admin Module

- Add, edit or remove users and roles
- Monitor attendance trends across departments
- Export data for audits or compliance
- Configure system settings and institutional policies