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Synopsis Presentation
on

CHECKIT

Click. Check. Done.

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Contents

1. Introduction

1.1 Overview

CheckIT is a web-based ERP platform developed to modernize and automate academic management, particularly attendance and communication. It integrates Google Forms and Sheets, enabling a streamlined and accessible interface for students, faculty, and administrators.

1.2 Purpose

- Automate student attendance tracking
- Enhance academic communication
- Provide centralized access to notes and timetables
- Issue real-time alerts and reminders
- Encourage efficient academic management

2. Literature Review

Sr. No.	Solution/ System	Key Features	Limitations/ Drawbacks
1	Basic Spreadsheet Systems	Widely adopted due to simplicity	Prone to manual errors; time-consuming data entry
2	Biometric Attendance Systems	High accu-cacy and tamper-prof verification processes	Require signific-ant initial investment in hardware and maintenance
3	Google Forms	Quick, setup: ease of use	Slower response for real-time updates if not optimized
4	Smart Card Attendance Systems	Quick, automated check-in and check-out proces-ses	High infrastructural cost for readers and smart cards

3. Problem Statement

Manual attendance systems are outdated, inefficient and error prone.

No centralized platform for notes, reminders or timetable.

Lack of real-time alerts for students and faculty.

Students cannot easily manage tasks or receive updates promptly.

Data inconsistency due to scattered tools.

4. Proposed Solution

- ✓ **Digital Attendance:** Students mark attendance via Google Forms, reducing manual errors and saving time.
- ✓ **Real-Time Data Management:** Attendance data is synced instantly with Google Sheets and stored securely in MySQL.
- ✓ **Smart Notifications:** Sends alerts to students for low attendance and reminds faculty about upcoming lectures.
- ✓ **Role-Based Access:** Admin, faculty, and students each have personalized access to relevant features.
- ✓ **Academic Resource Sharing:** Faculty can upload notes and class timetables for easy student access.
- ✓ **Task & Reminder Module:** Users can create to-do lists and receive reminders to stay organized.

5. Objectives

- **Dynamic Class Selection** Faculty chooses a class from a dropdown menu, triggering the system to load the corresponding student roster in real time.
- **Real-Time Attendance Marking** Once students are loaded, faculty can directly mark attendance (e.g., via checkboxes or toggles) on the same interface, eliminating the need for separate forms.
- **Automated Data Storage** The attendance data is automatically recorded into subject-specific sheets or sections, which simplifies subsequent analysis and record-keeping.
- **Academic Data Integration** The system features additional modules, such as a class timetable and an academic calendar with holidays, providing a holistic academic management environment.
- **Role-Based Access Control** Faculty have full editing rights to update records, while students have a view-only version of the compiled attendance for transparency.

6. Theoretical Analysis

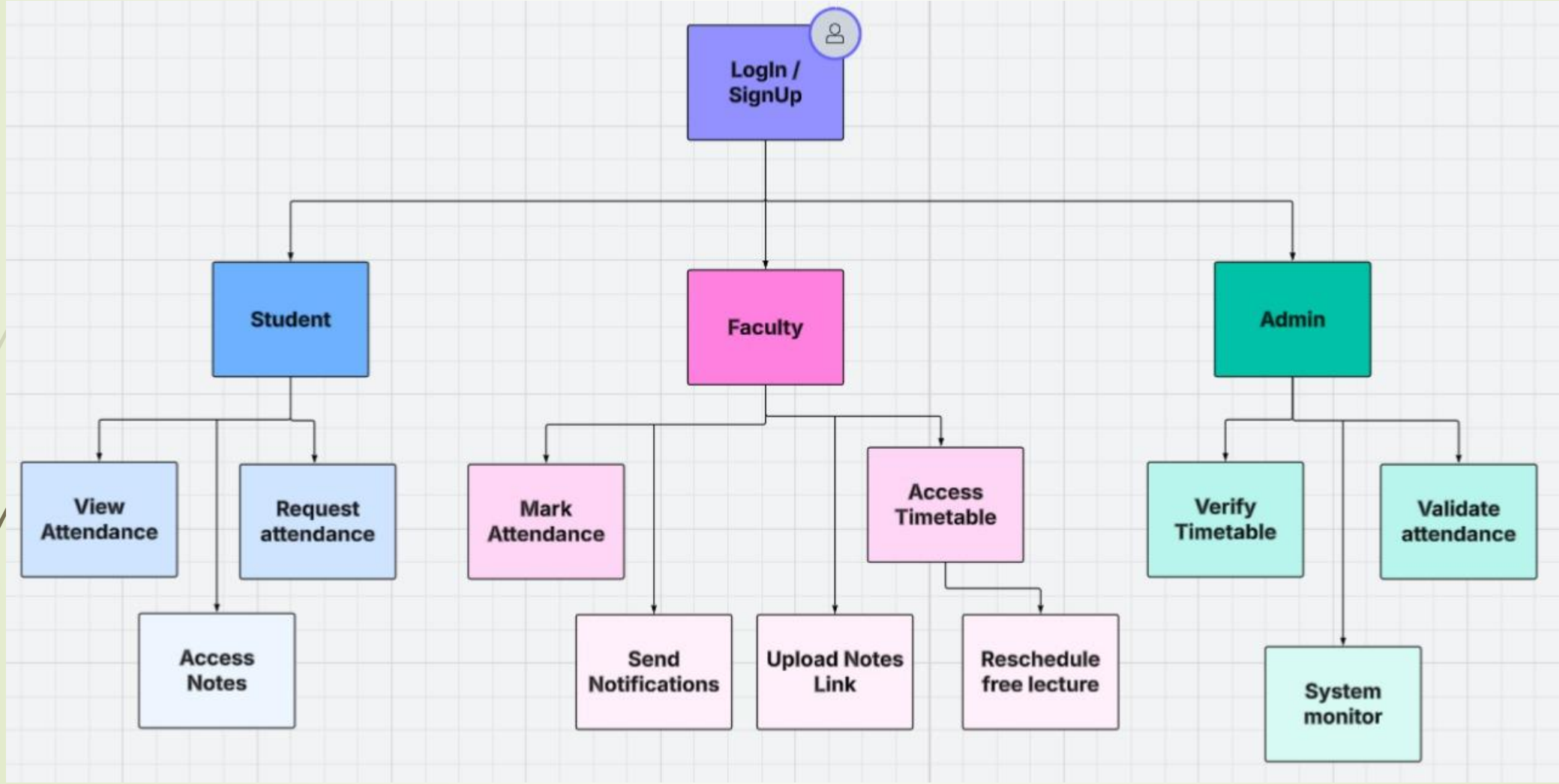

Fig.1. **Flow Diagram**

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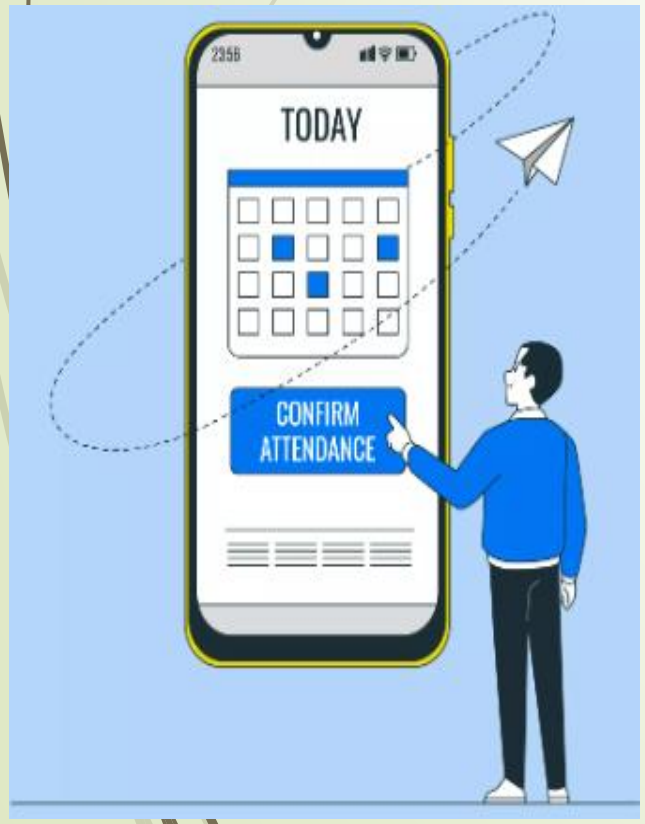
6.2 Hardware Requirements

- **CPU**: Multi-core processor
- **RAM**: Minimum of 8GB, but for large user bases, 16GB or more.
- SSD storage for faster read/write speeds, around 250GB or more depending on content volume.
- High-speed internet connectivity to ensure fast response times and reliable service.

6.3 Software Requirement

- **Frontend -** HTML5, CSS3, JavaScript, ReactJS, Tailwind.
- **Backend** – Node.js, Apache
- APIs for synchronization with Google Sheets.

7. Applications



Scalability for Institutions: Adaptable to various sizes of academic institutions, allowing for easy upgrades and integration with other administrative systems.

Analytical Reporting: The centralized system can easily generate attendance reports and analytics, supporting performance evaluations and institutional decision-making.

Error Reduction and Efficiency: The dynamic student roster integration minimizes manual data entry errors and streamlines the overall process, saving administrative time.

Real-Time Attendance Recording: Faculty can quickly load a class's student roster and mark attendance directly, ensuring immediate data capture and eliminating delays.

GitHub Link

- https://github.com/Saloni-Jain25/checkit

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Thank You

Any Queries ?