Digital Diary

“Where Teaching Meets Technology”

Presented by:

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Introduction

Traditional paper-based diaries are often hard to maintain, prone to errors and lack the efficiency and convenience of digital systems.

Our project proposes a digital solution for managing educational workflows.

It offers a range of features that optimize the management of personal and professional schedules.

Problem Statement

Teachers face numerous challenges in managing their workflows, including lesson planning, attendance tracking and assignment management.

These tasks often involve excessive paperwork, time-consuming manual processes, and fragmented tools, leading to inefficiencies and a lack of centralized data access.

Objective

To develop a digital tool that helps teachers organize their daily tasks, track student progress, manage lesson plans and ensure easy access to records.

Target Audience

Teachers who need an organized platform to manage their teaching resources, track student progress and plan lessons.

Computer Science department of CECOS University.

Features Overview

- Intuitive Dashboard
- Lesson Planning
- Student Progress Tracking
- Digital Notes
- Reminders and Notifications
- User Support and Tutorials

Literature Review

1. P. M. Elisabeta and M. R. Alexandru, "Comparative Analysis of E-Learning Platforms on The Market," *2018 10th International Conference on Electronics, Computers and Artificial Intelligence (ECAI)*, Iasi, Romania, 2018, pp. 1-4, doi: 10.1109/ECAI.2018.8679004.

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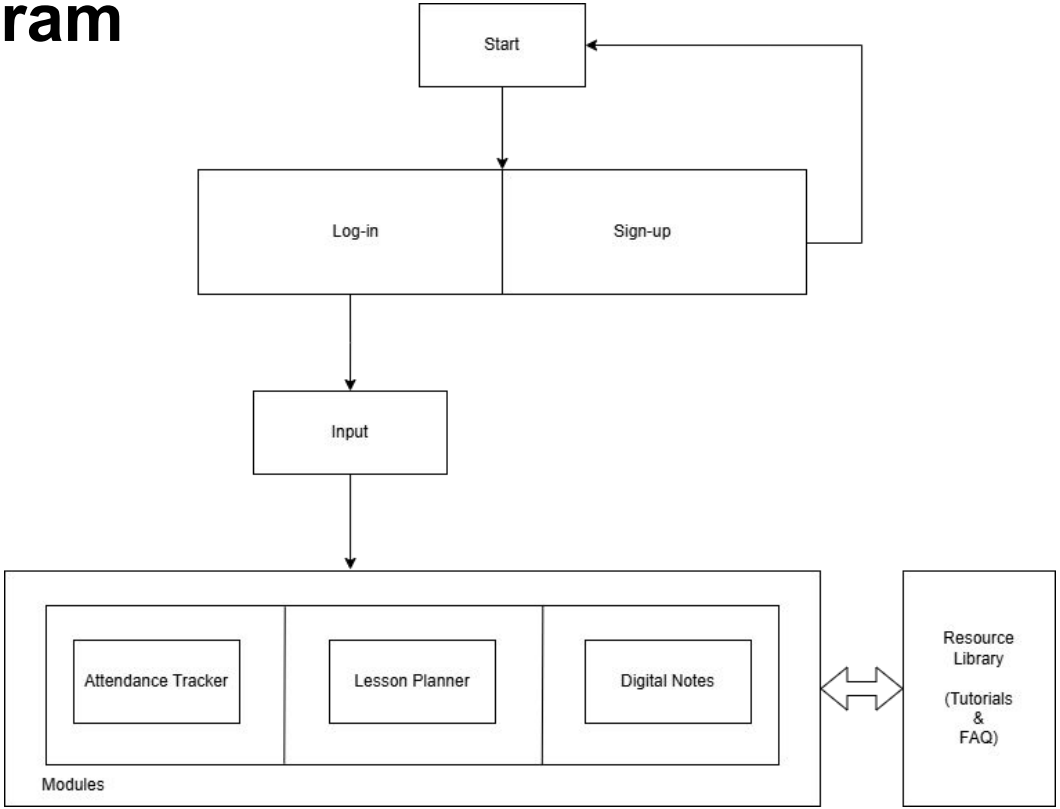
2. A. Guo and J. Ma, "A Smartphone-Based System for Personal Data Management and Personality Analysis," *2015 IEEE International Conference on Computer and Information Technology; Ubiquitous Computing and Communications; Dependable, Autonomic and Secure Computing; Pervasive Intelligence and Computing*, Liverpool, UK, 2015, pp. 2114-2122, doi: 10.1109/CIT/IUCC/DASC/PICOM.2015.314.

   URL: https://ieeexplore.ieee.org/document/7363360

3. S. F. M. Abraar, D. T. Thuduhenage, V. P. Balasubramaniyam, S. R. Mohanraj, G. Wimalaratne and S. Rajapaksha, "SMART DIARY: Autonomous System for Daily Diary Creation and Prioritization of Daily Activities for Improved Well-Being Using Neural Networks and Machine Learning," *2022 4th International Conference on Advancements in Computing (ICAC)*, Colombo, Sri Lanka, 2022, pp. 78-83, doi: 10.1109/ICAC57685.2022.10025129.

   URL: https://ieeexplore.ieee.org/document/10025129

Block Diagram



Components Used

Front-end: HTML (structuring), CSS (styling), JavaScript (interactivity)

Back-end: PHP (server-side logic), MySQL (database management system)

IDE: Visual Studio Code

Timeline


Month 1-2
Month 3-4
Month 5
Month 6
Research and Planning
Feature Development
Integration
Testing

Technical Approach

- Using Iterative method of development.
- Two group members and one supervisor.
- Back-end and Front-end to be developed simultaneously.
- Feedback to be evaluated and implemented appropriately.

System Architecture

Web application for:

- Personal Computers
- Mobile Devices

Conclusion

Teacher's Digital Diary transforms traditional teaching by enabling smarter, more efficient education management.

Its adoption requires addressing challenges like accessibility and privacy.

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