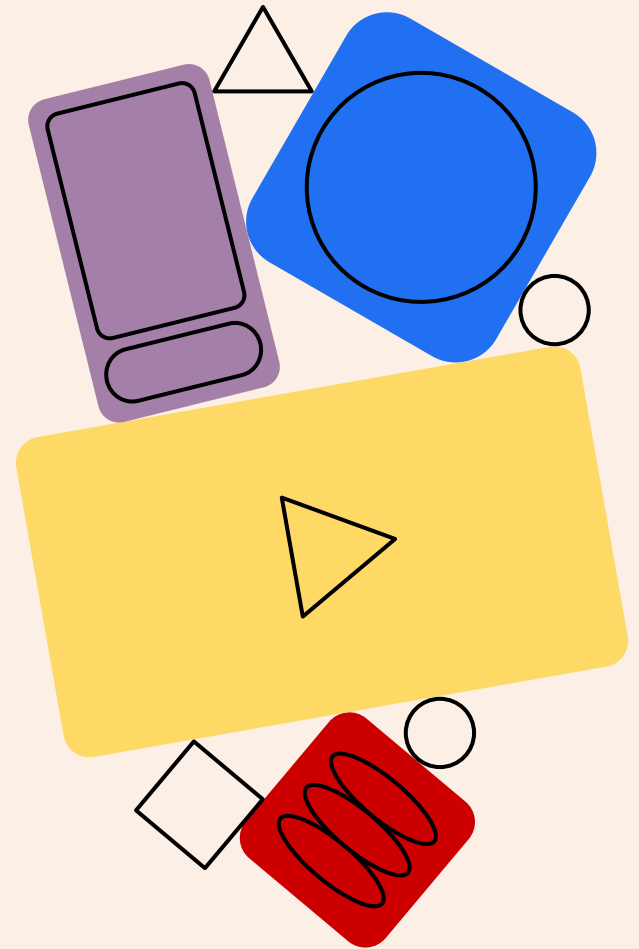# Smart Diary – Teachers' Personal Digital Assistant

"Where Teaching Meets Technology"

CECOS
UNIVERSITY

Presented by:

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BSCS-2021-A

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.
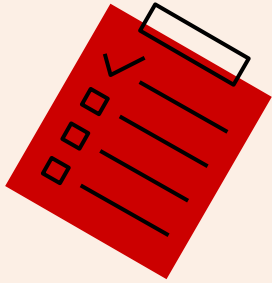
Objective

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.
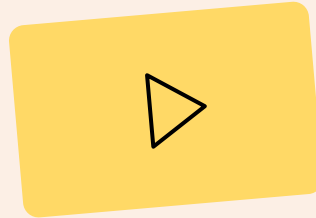
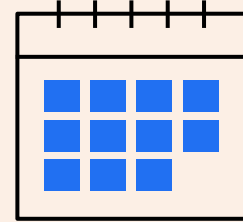Computer Science department of CECOS University.

Features Overview

Daily Task Management
- To-Do List
- Reminders/Notifications
- Classroom Management

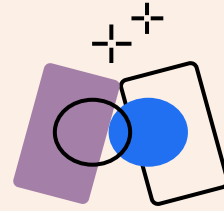**Resource Library**
- Links & Files
- Tutorials at hand

Calendar Integration
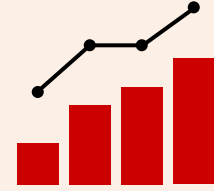- Sync Calendar
- Lesson Timetables

Features & Capabilities

Smart Diary boasts a user–friendly interface, secure infrastructure and ease of access to features.

Customization Options
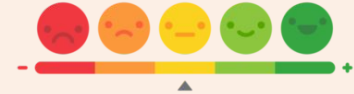
- Theme Selection
- Personalization

Assignment Tracker

- Assignment Log
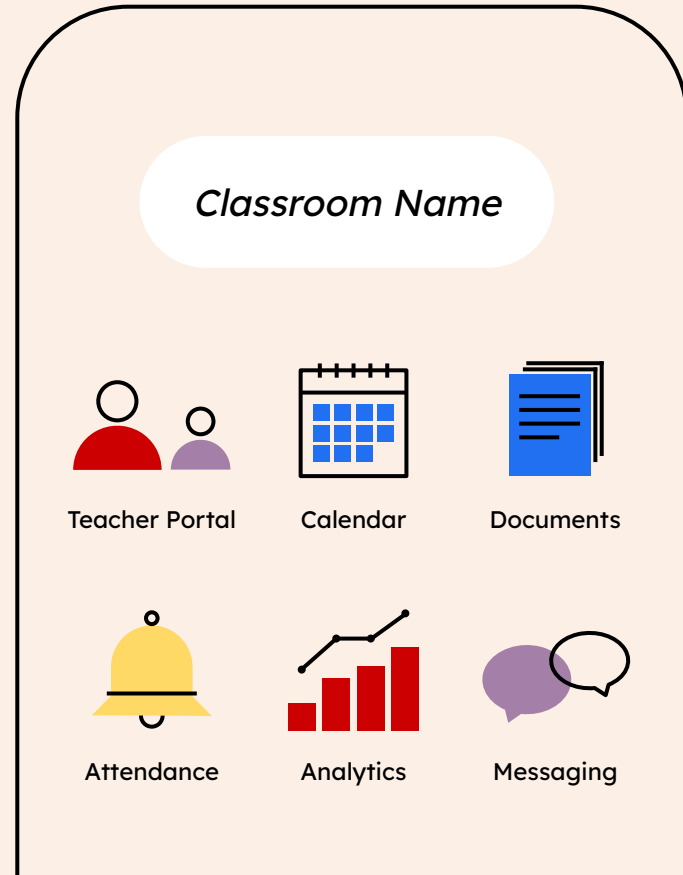- Student Progress

Journal

- Jot down notes

Analytics / Emotional Tracker

- Productivity Insights

Classroom Settings

Each class can have its own settings with support to integrate Google Classroom.

Classroom Name

Teacher Portal

Calendar

Documents

Attendance

Analytics

Messaging
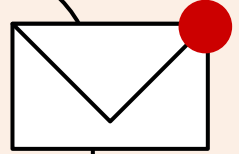
Alerts and Reminders

Set reminders for upcoming deadlines or tasks.

[Reminder❗]

Class due in 30 minutes at GF-06!

[Alert❗]

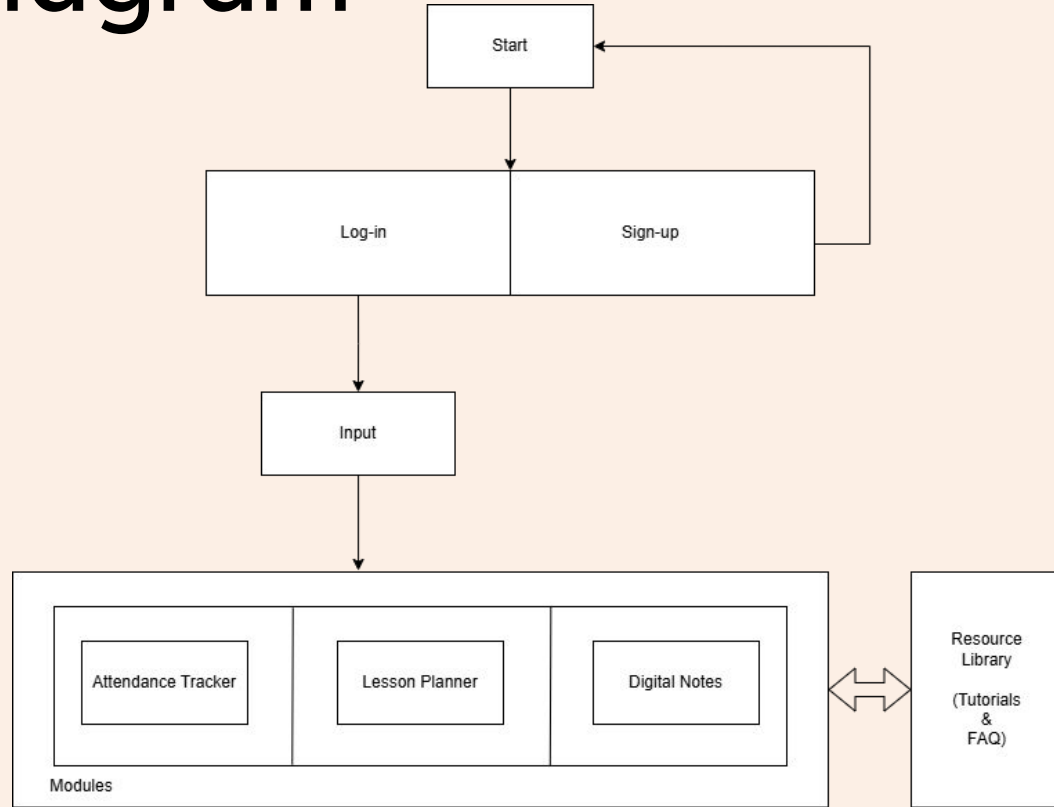Assignment submitted by student!

Components Used

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

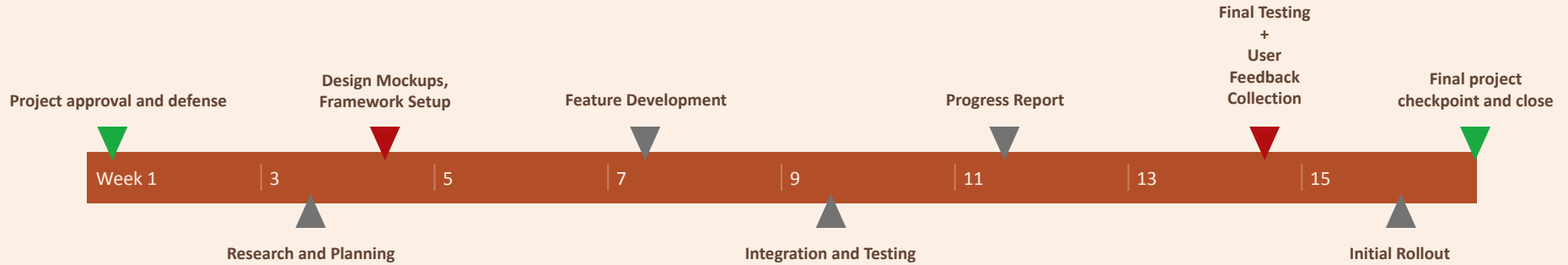**Back-end:** PHP (server-side logic), MySQL (database management system)

IDE: Visual Studio Code

Block Diagram

Timeline

Final Testing + User Feedback Collection

Design Mockups, Framework Setup

Feature Development

Progress Report

Project approval and defense

Final project checkpoint and close

Week 1   3   5   7   9   11   13   15

Research and Planning

Integration and Testing

Initial Rollout

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.

   URL: https://ieeexplore.ieee.org/document/8679004

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

Conclusion

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

It will be a Web Application for both Personal Computers and Mobile Devices.