

**Digital School Diary**

**Final Year Project Proposal**

**Session 2020-2024**

**A 4th Year Student**

A project submitted in partial fulfilment of the  
Abbottabad UST Degree  
of  
BSc. (Hons.) BS in Computer Science / Software  
Engineering



Department of Computer Science  
Abbottabad University of Science & Technology

12 DEC 2023

## Project Registration

Project ID (for office use)						
Type (Nature of project)		<input type="checkbox"/> Development		<input type="checkbox"/> Research		<input type="checkbox"/> R&D
Area of specialization						
<b>Project Group Members</b>						
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## Plagiarism Free Certificate

This is to certify that, I am \_\_\_\_\_ S/D/o \_\_\_\_\_, group leader of FYP under roll no \_\_\_\_\_ at Computer Science Department, Abbottabad UST. I declare that my FYP proposal is checked by my supervisor and the similarity index is % \_\_\_\_\_ that is less than 20%, an acceptable limit by HEC. Report is attached herewith as Appendix A.

Date: \_\_\_\_\_ Name of Group Leader: \_\_\_\_\_ Signature: \_\_\_\_\_

Name of Supervisor: Muhammad Imran Co-Supervisor (if any): Mam Kinza

Designation: \_\_\_\_\_

Designation: \_\_\_\_\_

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## Approval of FYP Evaluation Panel

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<input type="checkbox"/> Accept	<input type="checkbox"/> Defer	Signature:	_____
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## Table of Contents

1	Project Abstract	4
2	Introduction	4
3	Motivation and Scope	5
4	Related Work	6
5	Requirements	6
6	Goals and Objectives	7
7	Features of the project	7
8	Gantt Chart	8
9	Architectural Diagram	8
10	Tools and Technologies	9
11	References	9

## **1 Project Abstract**

The digital school diary project addresses ordinary challenges faced in our education system by presenting a modern solution for students, teachers, and parents. In the world of modern education, current digital platforms like Google Classroom and Edmodo, while valuable, face restraints in fostering seamless communication and cooperation among students, lecturers, and persons. These platforms frequently lack an integrated and foolproof approach, creating obstacles to adept academic engagement. In Pakistan, the educational landscape frequently lacks effective ideas and organization accessories. This project aims to bridge that breach by constructing a handy platform with key features. Our digital school diary provides an Interactive Calendar for students to track assignments, exams, and occurrences. Teachers can easily control assignments, admitting students to submit them online and digitally. Parents gain the strength to monitor their child's academic progress and attendance. The announcement system guarantees everyone stays informed about occurrences and deadlines. Additionally, we offer debate forums for collaborative academic discussions, a resource repository to store and approach education materials, and personalized user profiles for students, teachers, and parents. security measures are in place to protect data and protect secrecy. This project is designed for convenience, granting users to access the platform without difficulty on differing devices. Reports and analytics features authorize the creation of performance reports for both students and assistants. By focusing on these challenges, the Digital School Diary project aims to improve the educational experience, making the learning process more effective, approachable, and cooperative for all stakeholders in the Pakistani education order.

## **2 Introduction**

Our project, the Digital School Diary, is like a companionable guide for students, teachers, and parents in Pakistan. It's all about making school growth pleasant and more fun! Imagine an exclusive calendar where students can supervise homework and tests. Teachers can upload assignments, and students can grip them in online no more absent documents! parents can snoop at how well their kids are performance in school and check if they attended class. Everyone gets main updates on their phones about school stuff, like events and time limits. There's even a place to chat about work with classmates and teachers. All the learning data, like PDFs and videos, are in one easy-to-find spot. We fashioned sure it's super reliable, so none has to take the trouble their information. You can use it on phones and tablets, making it easy for all to stay affiliated. The Digital School Diary is here to create learning in Pakistan more amazing and simple for all complicated!

### 3 Motivation and Scope

- **Motivation**

Our motivation for the digital school diary project is implanted in the desire to clarify and improve the educational occurrence for students, assistants, and parents in Pakistan. We aim to bridge ideas breach and intelligible everyday tasks, envisioning a more related and effective education atmosphere. The pleasure of learning endures not be deterred by administrative challenges, and our inspiration is to conceive a resolution that create school growth more enjoyable and approachable for all complicated.

- **Scope**

- A convenient calendar for students to listen tasks, exams, and occurrences.
- Teachers can easily upload tasks, and students can offer them digitally, lowering paperwork and simplifying the resignation process.
- Parents can monitor their child's academic progress and presence, promoting a closer link between home and school.
- An announcement scheme to keep all consumers updated on main events, deadlines, and proclamations.
- Discussion forums that determine cooperative spaces for students and teachers to execute academic conversations, embellishing the overall learning occurrence.
- A concentrated repository to store and approach learning materials such as PDFs, videos, and links, establishing smooth availability of educational resources.
- Personalized user figures for students, teachers, and parents to tailor the experience to individual needs.
- Robust data guardianship measures and access controls to guarantee the secrecy and protection of user information.
- The platform created expected approachable on various devices, admitting users to stay related without difficulty.
- The capability to create performance reports for both students and teachers, contribution valuable judgments for bettering.

### 4 Related Work

Several systems worldwide have existed functioning towards improving educational conversation and organization. One notable instance is Google Classroom, that helps assignment governance and conversation between supervisors and students. It's usual and integrates seamlessly accompanying Google's suite of productivity forms.

Another appropriate system is Edmodo, providing a program for teachers, students, and parents to communicate, share resources, and trail assignments. Edmodo emphasizes cooperation and community-building inside an educational world. However, when we examine

the prospective Digital School Diary project, it sticks out for its comprehensive approach. Unlike few existent systems, our project integrates features like progress tracking, conversation forums, and a resource warehouse, creating a holistic instructional platform. The prominence on safety and privacy adjoins an extra coating of protection to consumer info. In comparison to the mentioned systems, our Digital School Diary aims to determine a more comprehensive and handy experience, helping specifically to the needs of students, teachers, and parents in the context of Pakistan. The singular combination of features makes it a rare resolution for improving the instructional experience in our aim society.

## **5 Requirements**

### **Components**

- User-Friendly Interface
- Interactive Calendar
- Assignment Management
- Progress Tracking
- Notification System
- Discussion Forums
- Resource Repository
- User Profiles
- Security Measures
- Mobile Accessibility
- Reports and Analytics

### **Development Methodology**

- Agile methods for repetitive and collaborative development.

## **6 Goals and Objectives**

### **Goals**

Our basic aim search out revolutionizes the educational experience by focusing on the faults of existent platforms and providing a inclusive digital school diary tailor-made to the needs of the Pakistani education system. This platform aims to promote smooth communication, raise cooperation, and improve the overall effectiveness of the learning process.

### **Objectives**

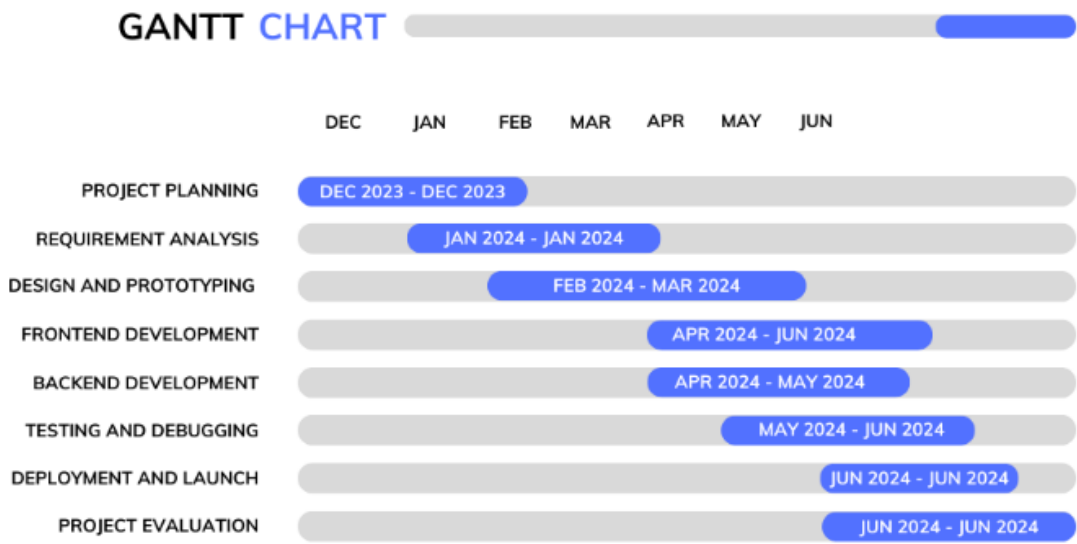
- Facilitate certain-opportunity conversation between students, teachers, and parents through a concentrated platform.
- Implement a convenient interface for assignment administration, progress pursuing, and event coordination.

- Ensure the platform is approachable on miscellaneous devices, promoting extensive maintenance and availability.
- Implement strong data care measures, containing secure approach controls, to safeguard user privacy.
- Establish discussion forums and a resource warehouse to advance collaborative learning with students and teachers.

## **7 Features of the Project**

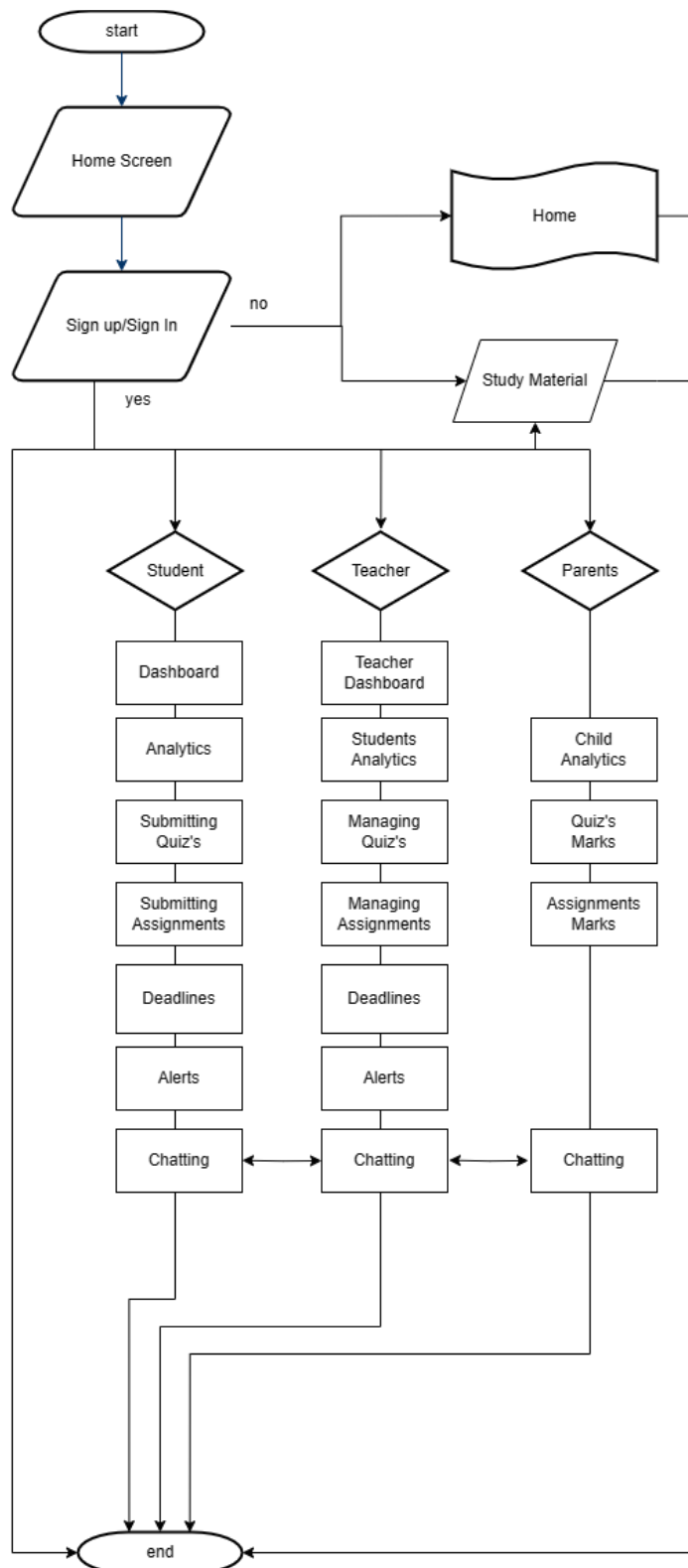
- Functional Features
  - Interactive Calendar
  - Assignment Management
  - Progress Tracking
  - Notification System
  - Discussion Forums
  - Resource Repository
  - User Profiles
  
- Non-Functional Features
  - Security Measures
  - Mobile Accessibility
  
- System Features
  - Reports and Analytics
  - Feedback Mechanism

8 Gantt Chart





## 9 Architectural Diagram



## **10 Tools and Technologies**

- Language: JavaScript Programming Language
- Framework: React Native
- IDE: Visual Studio Code
- DBMS: SQLite
- Platforms: Android Mobile and IOS

## **11 References**

- <https://www.educationtechhub.com/>
- <https://reactnative.dev/docs/getting-started>
- <https://www.sqlite.org/docs.html>
- <https://developer.mozilla.org/en-US/docs/Web/JavaScript>
- <https://classroom.google.com/>
- <https://www.edmodo.com/>

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Approved	<input type="checkbox"/> Yes <input type="checkbox"/> No

<b>Checked &amp; Approved/Not Approved By:</b>							
Name: _____							
Signature: _____							
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Appendix A

*Include here the 1<sup>st</sup> page of Turnitin Report*