

## PASTI-CARE: Preschool Student Progress Tracking System

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### Abstract

The rapid evolution of education demands efficient systems for managing student progress. Current manual methods which are reliant on physical records, are prone to inefficiency, errors, and damage, creating challenges for teachers and delaying communication with parents in PASTI Al-Fateh 2. To address this, an object-oriented system developed using Python, called PASTI-CARE integrates modules for student registration, progress tracking, profiles, parent interaction, and data analytics. PASTI-CARE will be implemented to solve the problems for the selected class, 4 Adnin. The system enhance communication between teachers and parents, streamline progress tracking, reduce workloads, and encourage the holistic development of students. The requirements and designs of the system has been analysed using object oriented analysis and design method. Therefore, the UML diagrams have been generated. The system creates a holistic learning environment by providing insights into academic, social, and Islamic skill development, ultimately supporting the growth and engagement of students. Functional and user acceptance testing confirmed the system's reliability and ease of use. Future improvements include support for multiple class levels, syllabus customization, mobile application, and a gallery feature for event documentation.

## 1. Introduction

The rapid progress in education and the growing number of preschool centers have encouraged Islamic educators and supporters to provide an alternative to the current education system. Pusat Asuhan Tunas Islam, commonly known as PASTI, focuses on providing early childhood education grounded in Islamic values. However, like many preschools, PASTI aims to offer a balanced curriculum that promotes academic, social, and moral development for young children. Efficient management of preschools is crucial in ensuring a conducive learning environment, particularly in promoting smooth communication between teachers and parents and monitoring the developmental progress of each student.

Currently, the tracking of student progress at PASTI Preschool relies on manual methods, such as physical records in books or papers. These records are cumbersome to manage, prone to damage or misplacement, and inefficient for storing or retrieving information. Teachers also face challenges in maintaining visibility into student progress, often resorting to informal methods like folding book pages to track milestones, which is neither systematic nor reliable. Parents often ask teachers about their children's progress, either in person or via text messages. It adds to the teachers' workload, requiring them to address individual queries. Lastly, reviewing and summarizing student performance before the report day involves significant time and effort. Teachers must individually check all student exercises and assessments to evaluate progress, often leading to exhaustion and

potential delays in generating accurate reports. The current manual tracking process is illustrated in Swimlane Model (see Appendix A).

The objectives of this project are to design a PASTI-CARE (PASTI Communication and Academic Reporting Environment) platform as a web-based application, to develop PASTI-CARE object-oriented systems utilizing Python for development and to test and validate the PASTI-CARE system using functional testing. The system offers a variety of essential features distributed across five primary modules; each designed to streamline and enhance different aspects of preschool management. The five main modules are student registration, progress tracking, student profile, parent interaction and report modules.

This project aims to develop PASTI-CARE, an integrated student progress tracking system for PASTI Al-Fateh 2. The system plays a big role in streamlining the process of monitoring and reporting student progress, making it easier for teachers to track each child's academic, behavioural, and Islamic skill development.

## 2. Related Work

This section provides the literature review that has been conducted for the developed system, PASTI-CARE. The literature review highlights the topic related to Strategies in Early Education Development and Learning, Data Analytics in Educational Tracking, and Technology Used in Data Analytics.

### 2.1 Strategies in Early Education Development and Learning

Pedagogy refers to the "how", focusing on the methods and practices used to facilitate learning in an education environment. It involves a range of instructional techniques and strategies designed to promote the acquisition of knowledge, skills, attitudes, and dispositions within a specific social and material context. The demanding nature of early childhood education can lead to significant stress for teachers, which adversely affects the quality of their interactions with young children. To address this, there is a growing focus on integrating reflective practices into higher education pedagogy to provide preservice teachers with stress management tools before they enter the profession. Initial evidence indicates that such practices can positively impact their well-being and teaching effectiveness [1].

Interventions play a crucial role in enhancing academic achievement, as they provide targeted actions and strategies to support student learning progress. In the context of preschool education, implementing a student progress tracking system can serve as an effective intervention. By monitoring developmental milestones and identifying areas where additional support is needed, educators can apply specific and unique approaches to address individual learning needs, thereby promoting better outcomes for young learners.

### 2.2 Data Analytics in Educational Tracking

Data analytics is defined as a set of processes, tools, and technologies that help manage data to gain finding, simplify organization, and generate insights for any business insights [2]. Data analytics can be a good approach in modern education systems, particularly for providing insights into student progress. By leveraging data, educators can visualize critical information, such as academic and behavioral milestones, to enhance decision-making and improve student outcomes. The advantage of learning analytics helps teachers improve instructions and learning leads to the students being able to comprehend the concepts clearly [3].

### 2.3 Technology Used in Data Analytics

The integration of technology is crucial in education to enable efficient data analytics. Data analysis requires technical skills such as SQL, Python, and data visualization tools. Python is a versatile programming language used for data analysis, allowing developers to manipulate and structure data effectively. On the frontend, HTML, CSS, and JavaScript are used to create user-friendly and interactive web interfaces. HTML provides the structure for web pages, CSS styles the content, and JavaScript adds interactivity [4].

### 2.4 Study of Existing System

In the development of the PASTI-CARE application, an analysis of three existing systems. ClassDojo, ANTON, and Khan Academy Kids were conducted to examine their features and capabilities in comparison. These systems were selected for their relevance to student progress tracking, communication, and behavioral monitoring within educational environments. By studying these platforms, key features were identified that could inform the design

and functionality of PASTI-CARE. The comparison between the existing systems with the developed system is shown in Table 1.

**Table 1** Comparison between existing systems and PASTI-CARE system

Feature	ClassDojo [5]	ANTON [6]	Khan Academy Kids [7]	PASTI-Care
<b>Platform</b>	Web-based App	Mobile App	Mobile App	Web-based App
<b>Student Login Via</b>	Email/phone number	Generated Code	Generated Code	Generated Code
<b>Tracking milestone on syllabus</b>	No	No	Yes	Yes
<b>Syllabus</b>	Behaviour	Academic	Academic	Academic, Behaviour, Islamic
<b>Parent-Teacher Communication</b>	Yes (Chat)	No	No	Yes (Shared Wall)
<b>Event Updates</b>	Yes (Calendar)	No	No	Yes (Calendar)
<b>Generate Report</b>	Yes	Yes	Yes	Yes

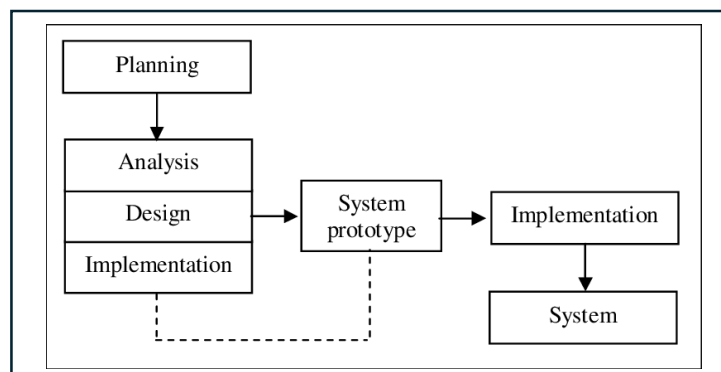
Table 1 compares ClassDojo, ANTON, Khan Academy Kids, and PASTI-CARE. While ClassDojo focuses on behavior and communication, it lacks academic tracking. ANTON and Khan Academy Kids offer academic features but do not support full milestone tracking or two-way communication. In contrast, PASTI-CARE integrates academic, behavioral, and Islamic tracking with milestone monitoring, parent communication, event updates, and report generation, offering a more complete solution for preschool education.

### 3. Methodology

This section describes the methodology used to develop the PASTI-CARE system, focusing on prototype model.

#### 3.1 Prototype Model

For the development of the PASTI-CARE Preschool Management and Progress Tracking System, prototyping is an ideal choice because it allows for iterative development, early user feedback, and continuous refinement, ensuring the final system effectively meets user needs and expectations. Fig. 1 shows the phases of Prototype Development Methodology.



**Fig. 1** Prototype Development Methodology [8]

The development process includes six phases: Planning, Analysis, Design, Implementation, System Prototype, and Testing. Table 2 shows the activities and the deliverables for each phase during the SDLC of the project.

**Table 2** Software Development Task and Output of Each Phase

Phase	Task	Output
<b>Planning</b>	<ul style="list-style-type: none"> <li>Define project purpose, scope, and requirements.</li> <li>Conduct research and analyze systems.</li> <li>Determine project schedule.</li> </ul>	<ul style="list-style-type: none"> <li>System Proposal</li> <li>Gantt Chart</li> </ul>
<b>Analysis</b>	<ul style="list-style-type: none"> <li>Interview stakeholder</li> <li>Gather and analyse system requirements</li> </ul>	<ul style="list-style-type: none"> <li>Interview</li> <li>Hardware and software requirements</li> <li>Functional and non-functional requirements</li> </ul>
<b>Design</b>	<ul style="list-style-type: none"> <li>Design UML diagrams</li> <li>Design system architecture and database.</li> <li>Design user interface and wireframes.</li> </ul>	<ul style="list-style-type: none"> <li>UML diagrams (use case, sequence, activity).</li> <li>System architecture and class diagram.</li> <li>Wireframes</li> </ul>
<b>Implementation</b>	<ul style="list-style-type: none"> <li>Code the system using HTML, CSS, JavaScript, and Python.</li> <li>Implement MySQL for database management.</li> </ul>	<ul style="list-style-type: none"> <li>System Prototype</li> </ul>
<b>System Prototype</b>	<ul style="list-style-type: none"> <li>Gather user feedback.</li> <li>Refine the system.</li> <li>Repeat analysis, design, implementation and development.</li> </ul>	<ul style="list-style-type: none"> <li>Working system prototype</li> <li>Stakeholder feedback</li> <li>Revised system prototype</li> </ul>
<b>Testing</b>	<ul style="list-style-type: none"> <li>Testing the system</li> <li>Fix bugs</li> </ul>	<ul style="list-style-type: none"> <li>Functional Testing</li> <li>User Acceptance Testing</li> </ul>

#### 4. System Analysis and Design

The section describes the analysis and design for PASTI-CARE system. The analysis focuses on understanding the needs of teacher and parents to ensure that the system aligns with the objectives of PASTI-CARE.

##### 4.1 System Requirement

This section outlines the technical and functional requirements for the PASTI-CARE system. The system requirements are totaling 11 system functional requirements statements across all 5 modules are summarized in Table 3.

**Table 3** System Requirement for PASTI-CARE System

No	Function	Functionalities
1.	Student Registration Module	<ul style="list-style-type: none"> <li>The system validates data inputs like unique IDs and valid contact formats.</li> <li>The system automatically generates a unique student ID upon successful registration.</li> </ul>
2.	Progress Tracking Module	<ul style="list-style-type: none"> <li>The system provides bulk action buttons to mark all students under the same progress level.</li> <li>The system stores and updates student milestone progress upon saving.</li> </ul>

**Table 3 (Cont.)**

3.	Student Profile Module	<ul style="list-style-type: none"> <li>The system displays all student profiles and progress records accessible for teacher.</li> <li>The system shows a performance chart representing milestone achievement percentage for teacher.</li> <li>The system restricts parent access to only view and edits their own child's profile and progress records.</li> </ul>
4.	Parent Interaction Module	<ul style="list-style-type: none"> <li>The system displays teacher's posts, comments and event updates to teachers and parents.</li> </ul>
5.	Generate Report Module	<ul style="list-style-type: none"> <li>The system generates detailed reports on student performance.</li> <li>The system visualizes performance data through charts and graphs.</li> <li>The system analyzes student performance and highlights students needing attention using the Student Insights feature.</li> </ul>

## 4.2 User Requirement

This section defines the key user requirements for the PASTI-CARE system. It focuses on the needs and expectations of primary users, which are the teacher and parents. The total of 16 user requirements for PASTI-CARE system are summarized in Table 4.

**Table 4 User Requirement for PASTI-CARE System**

No	Function	Functionalities
1	Student Registration Module	<ul style="list-style-type: none"> <li>Teacher adds student records details.</li> <li>Teacher deletes inactive student records.</li> <li>Teacher cancels adding student records details.</li> </ul>
2.	Progress Tracking Module	<ul style="list-style-type: none"> <li>Teacher selects a category, subcategory, and milestone for tracking progress.</li> <li>Teacher to assign progress levels (Weak, Good, Excellent) for each student.</li> <li>Teacher saves milestones update.</li> </ul>
3.	Student Profile Module	<ul style="list-style-type: none"> <li>Teacher views detailed student profiles and progress records.</li> <li>Teacher edits student's personal information.</li> <li>Parents views their child's student profiles and progress records.</li> <li>Parents edits student's personal information.</li> </ul>
4.	Parent Interaction Module	<ul style="list-style-type: none"> <li>Teacher shares posts on class wall.</li> <li>Parents posts or deletes comments on class wall.</li> <li>Teacher deletes parents comments class wall.</li> <li>Teacher adds or deletes events on calendar.</li> <li>Parents view upcoming events on calendar.</li> </ul>
5.	Generate Report Module	<ul style="list-style-type: none"> <li>Teachers download comprehensive reports for individual students or entire class.</li> </ul>

## 4.3 Non-Functional Requirements

These requirements address the operational, performance, and security aspects of the system to ensure it delivers a seamless, efficient, and secure user experience. Table 5 highlights the non-functional requirements essential for the PASTI-CARE system.

**Table 5 Non-Functional Requirements for PASTI-CARE System**

No	Requirement	Description
1.	Operational	<ul style="list-style-type: none"> <li>The system should be accessible via any web browsers and optimized for desktop and tablet devices.</li> <li>The system should be easy to use, with a user-friendly interface designed for non-technical users.</li> </ul>

**Table 5 (Cont.)**

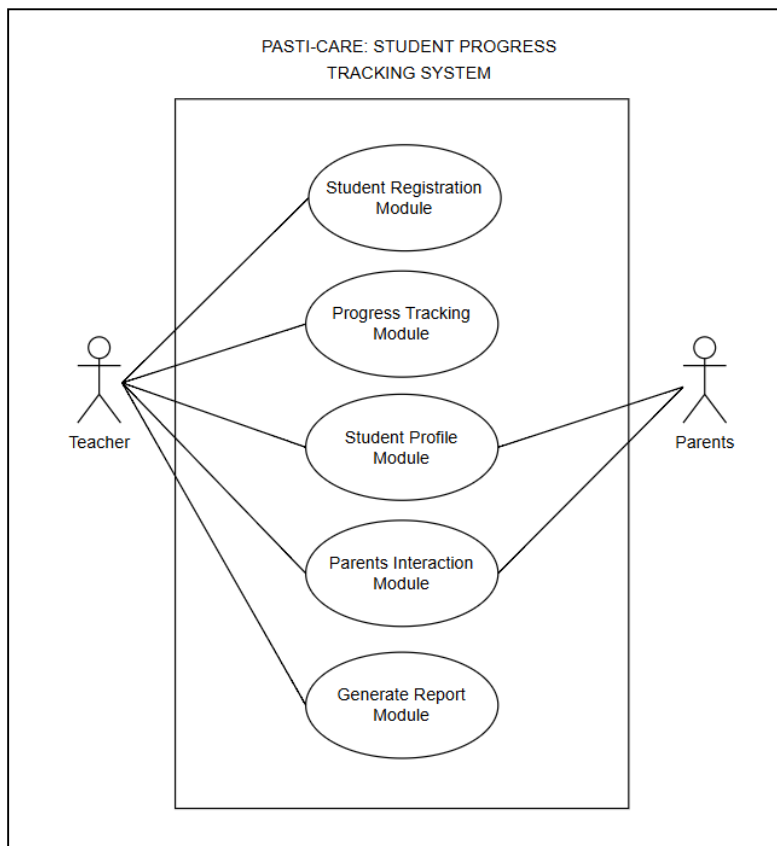
2.	Performance	<ul style="list-style-type: none"> <li>The system should load the dashboard within 3 seconds under normal operating conditions.</li> <li>The system should have response time of less than 1 minute.</li> </ul>
3.	Security	<ul style="list-style-type: none"> <li>The system should require user authentication with role-based access control with login feature.</li> </ul>

### 4.4 System Analysis

This section analyzes the PASTI-CARE system, detailing its structure and functionality. It includes use cases and a use case specification table to outline user interactions, a sequence diagram (see Appendix B) to show interaction sequences, an activity diagram (see Appendix C) to illustrate process workflows, a flowchart to visualize system processes, and a class diagram to represent the system structure.

#### 4.4.1 Use Case Diagram

The Use Case Diagrams for the PASTI-CARE: Student Progress Tracking System describe the interactions of teachers and parents. The system includes five key modules: Student Registration Module, Progress Tracking Module, Student Profile Module, Parents Interaction Module, and Generate Report Module. Teacher interacts with all five modules, while parents interact specifically with the Student Profile Module and the Parents Interaction Module. The illustration is shown in Fig. 2.



**Fig. 2 Use Case of PASTI-CARE System**

### 4.5 System Design

The design activities include flowcharts and class diagrams. The flowcharts for the PASTI-CARE system (see Appendix D), illustrating the step-by-step workflows for both teachers and parents. There are two separate flowcharts: one for teacher and another for parents.

The teacher's workflow begins with logging into the system and navigating the home page. From there, teachers can perform various actions, such as registering students, tracking their progress, editing student

profiles, managing events or posts to interact with parents, and generating reports. Each step is sequentially organized to ensure efficient use of the system.

For parents, the workflow starts with logging into the system and accessing the home page. Parents can view or edit student profiles, monitor their child's progress, and engage with teachers by commenting on posts or viewing events. This flow ensures that parents can effectively utilize the system to stay informed and involved.

The class diagram for the PASTI-CARE system consists of eight primary classes: Teacher, Students, Parents, Progress, Post, Comment, Event, and Report. Each class represents a core component of the system, outlining its attributes and methods to ensure proper functionality and interaction between different modules. The attributes, methods, and relationships between different classes are illustrated in (see Appendix E).

The class diagram shows the structural design of the PASTI-CARE system, consisting of eight main classes where each class plays a specific role in the system's functionality. The Teacher class manages key tasks such as student registration, tracking progress, managing posts and events, and generating reports. The Students class stores student details, including their progress milestones, while the Parents class allows parents to edit profiles, comment on posts, and view events. The Progress class tracks student achievements, with attributes for categories and milestones. The Post and Comment classes handle teacher-created posts and parent comments, enabling communication. The Event class manages event details, and finally, the Report class generates student performance reports.

### 4.5.1 Interface Design

Fig. 3 shows the user interface (UI) design mockups created using Figma. This step was done before the actual system development to help visualize the layout, features, and flow of the system. By designing the interface in advance, it ensured that the system would be user-friendly, consistent, and aligned with user expectations. This also made the development process more efficient and well-structured.

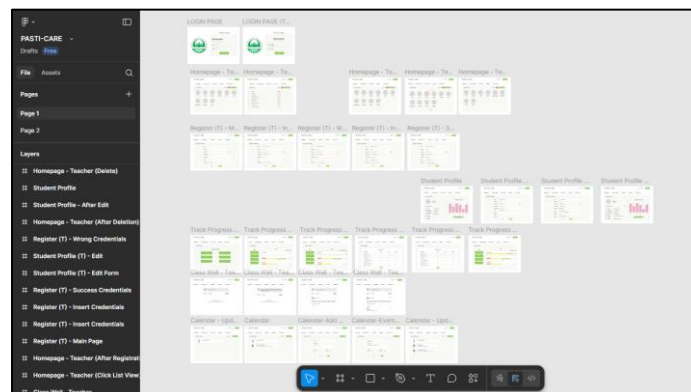


Fig. 3 PASTI-CARE System Design Mockup

## 5. Implementation and Testing

This section discusses the implementation of the core modules developed for the PASTI-CARE system. It highlights the main features of each module and presents selected interface preview. The section also covers the system testing phase, which includes functional testing and user acceptance testing (UAT) to ensure the system meets the intended requirements and is ready for real-world use.

### 5.1 System Implementation

The PASTI-CARE system was developed with five main modules: Student Registration, Progress Tracking, Student Profile, Parent Interaction, and Report Generation. Each module was implemented to support teacher-parent collaboration and improve preschool management.

The development of the PASTI-CARE system involved the implementation of five core modules that work together to support preschool management tasks. The process begins with the Student Registration Module, where teachers register new students using a form that validates phone number, email, and ensures the child is four years old. Upon successful registration, the system generates a unique student code, which is later used for parent account linkage. This step is crucial for initializing the student profile and enabling further tracking.

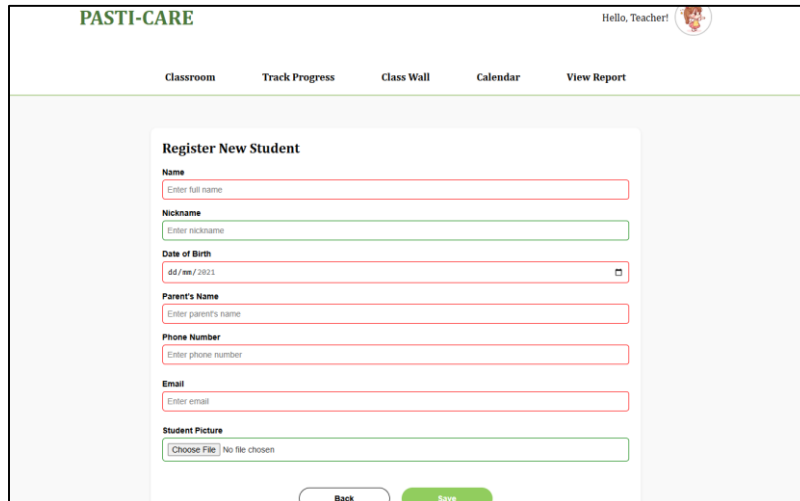


Fig. 4 Student Registration Interface for Teacher

Once students are registered, teachers proceed to the Progress Tracking Module, where they select a learning category, followed by a subcategory and specific milestones. For each selected milestone, teachers assign progress levels: Weak, Good, or Excellent for each student in the class. They can update individual statuses or apply bulk actions using quick-select buttons, then save the entries to keep the record up to date.

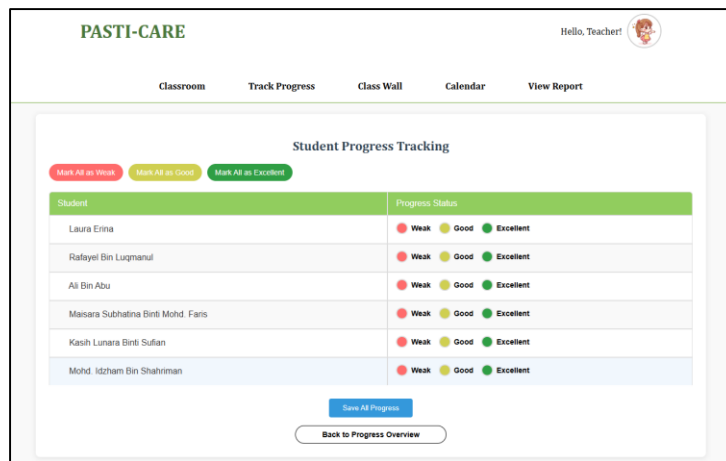


Fig. 5 Milestones Assesment Interface

The Student Profile Module allows both teachers and parents to view and update student information, including nickname, ambition, allergies, and address. Teachers also have access to a performance overview chart that shows the percentage of milestones completed for each learning domain, helping them quickly identify which areas need attention.

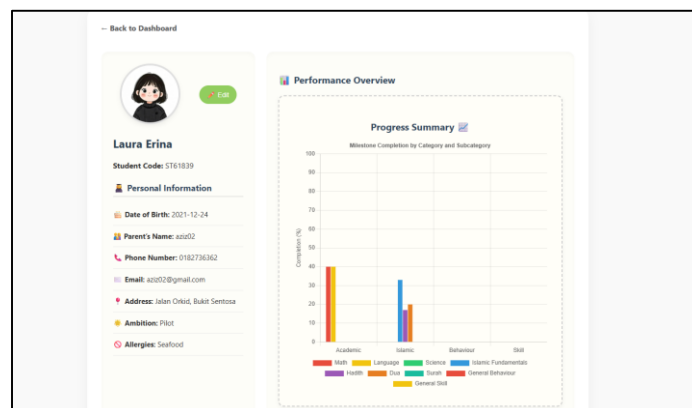


Fig. 6 Student Profile Interface for Teacher

To support parent-teacher collaboration, the Parent Interaction Module includes a Class Wall, where teachers post classroom updates or announcements and parents can leave comments. Teachers can use @mentions to tag specific parents in replies, enabling more direct communication. Additionally, the module includes a calendar feature where teachers publish important school events. Parents can view these in monthly or yearly formats to stay informed and plan accordingly.

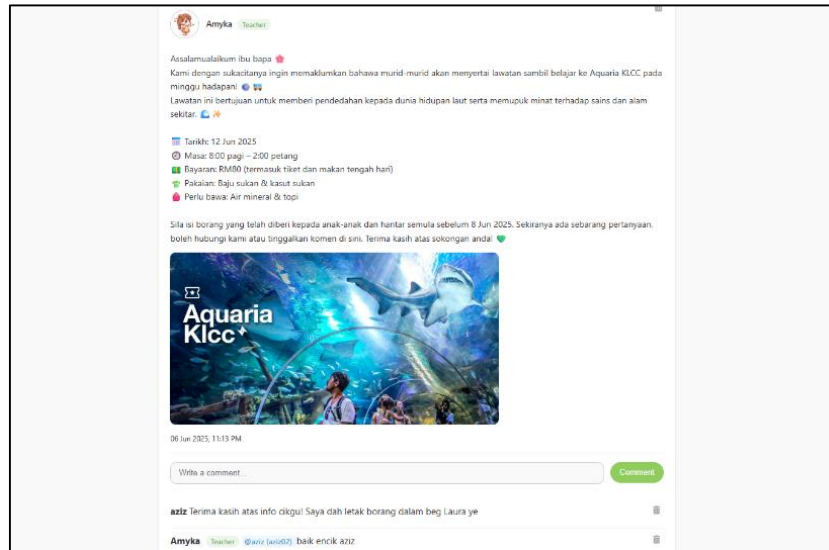


Fig. 7 Class Wall Interface

Finally, the Generate Report Module allows teachers to generate various types of reports such as individual student reports, class-wide reports, and class summaries with charts. One of the most impactful tools is the Student Insights feature, which automatically identifies students who may need extra attention based on milestone performance. This helps teachers prioritize support and guide future instruction.

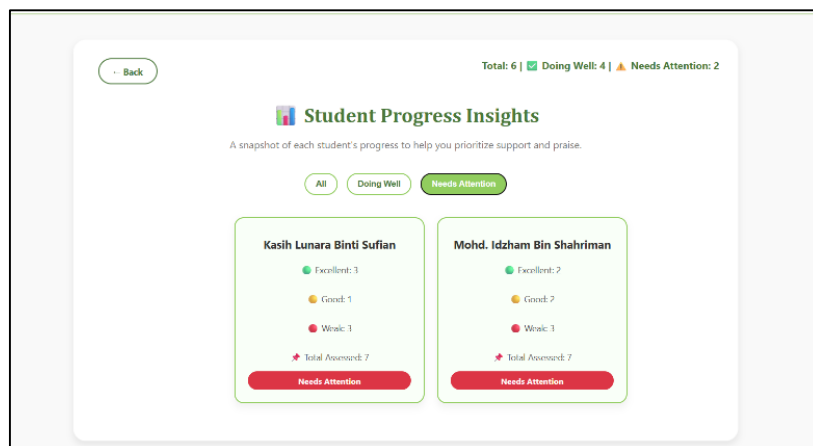


Fig. 8 Student Progress Insights

## 5.2 System Testing

To ensure that all features of the PASTI-CARE system functioned as intended, the system underwent two main types of testing: functional testing and user acceptance testing (UAT). Functional testing was conducted for each module based on the predefined software requirements. A total of 19 test cases were developed and executed, covering all five core modules: Student Registration, Progress Tracking, Student Profile, Parent Interaction, and Generate Report. The test cases were structured using a Requirement Traceability Matrix in Table 6, linking each test to its respective functional requirement. All 19 test cases passed successfully, confirming that the system met the expected behavior for data validation, user actions, and report generation.

**Table 6 Requirement Traceability Matrix**

Software Requirement Specification	Test Case ID	Test Case Description	Test Result (Pass / Fail)
<b>UC-1</b>		<b>Student Registration Module</b>	
FR-1, FR-2, FR-3, CR-1	TEST_001	Teacher enters valid student details (name, class, parent/guardian name and contact) and the system registers the student, generates unique ID, and displays in the student list.	Pass
FR01-01	TEST_002	Teacher cancels the student registration. System returns to main menu without saving.	Pass
FR01-02	TEST_003	Teacher inputs invalid or incomplete data. System displays error and highlights required fields.	Pass
<b>UC-2</b>		<b>Track Progress Module</b>	
FR-1, QR-1	TEST_004	Teacher updates progress for multiple students; system validates and updates progress bar.	Pass
FR-1	TEST_005	Teacher selects category and subcategory and tracks student progress.	Pass
FR-2	TEST_006	Teacher uses search bar to search milestones	Pass
FR-3	TEST_007	Teacher updates milestones using bulk selection.	Pass
QR-1	TEST_008	System updates milestone visualization progress bar after saving.	Pass
-	TEST_009	Teacher cancels without saving changes; system returns to progress page.	Pass
<b>UC-3</b>		<b>Student Profile Module</b>	
FR-1, CR-1	TEST_010	Teacher/Parent edits student personal info; system validates and updates profile.	Pass
CR-1	TEST_011	Parent views their own child's profile; system restricts access to other students.	Pass
-	TEST_012	Teacher/Parent clicks to view detailed progress; system shows milestone data and chart.	Pass
FR-1	TEST_013	Teacher/Parent submits form with missing/invalid fields; system displays error.	Pass
<b>UC-4</b>		<b>Parent Interaction Module</b>	
FR-1	TEST_014	Teacher creates and deletes a post; system updates shared wall.	Pass
FR-2	TEST_015	Parent comments on a post; system displays comment under post.	Pass
FR-3	TEST_016	Teacher adds & deletes event; calendar updates in real-time.	Pass
<b>UC-5</b>		<b>Generate Report Module</b>	
FR-1, QR-2	TEST_017	Teacher selects student and downloads individual report as PDF.	Pass
FR-1, QR-2	TEST_018	Teacher selects "Generate Class Report"; system summarizes and downloads full class report.	Pass
-	TEST_019	System fails due to no data; system notifies "No performance data available".	Pass

In addition to functional testing, User Acceptance Testing (UAT) was carried out by an actual end-user, a senior preschool teacher from PASTI, who represents the target user group. The UAT form (see Appendix F) results indicated that the system was very easy to use, and all expected features worked correctly. The tester also acknowledged that the system was useful for managing student records and facilitating communication with parents. One key suggestion from the UAT was to include a gallery feature that would allow teachers to upload and share event pictures with parents, which will be considered in future enhancements. Together, the results from both functional and user testing confirmed that the PASTI-CARE system is reliable, user-friendly, and ready for real use in a preschool environment.

## 6. Conclusion

The PASTI-CARE system offers an innovative solution for managing preschool education, integrating modules for streamlined student progress tracking, parent-teacher interaction, and reporting. By addressing inefficiencies in manual processes, the system enhances communication, reduces teacher workload, and supports holistic student development. Throughout the development, PASTI-CARE system has successfully achieved all three project objectives, including the development of a web-based platform, implementation using object-oriented Python, and successful validation through functional testing. The system offers several advantages, such as a user-friendly interface, effective milestone tracking, automated report generation, and improved parent-teacher communication. However, limitations remain, including its current focus on a single class level, fixed syllabus structure, lack of mobile support, language constraints, and reliance on internet connectivity. These challenges have led to several proposed future enhancements, such as multi-level class support, customizable syllabus management, a mobile application, multilingual interface options, and a gallery feature for event documentation. With these improvements, PASTI-CARE has the potential to become a more comprehensive and inclusive preschool management solution for PASTI Al-Fateh 2.

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## Conflict of Interest

Authors declare that there is no conflict of interest regarding the publication of the paper.

## Author Contribution

This journal requires that all authors take public responsibility for the content of the work submitted for review. The contributions of all authors must be described in the following manner:

*The authors confirm contribution to the paper as follows: **study conception and design:** Nur Amyka Adnin Binti Che Rozaime, Hannani Binti Aman; **data collection:** Nur Amyka Adnin Binti Che Rozaime; **analysis and interpretation of results:** Nur Amyka Adnin Binti Che Rozaime, Hannani Binti Aman; **draft manuscript preparation:** Nur Amyka Adnin Binti Che Rozaime, Hannani Binti Aman. All authors reviewed the results and approved the final version of the manuscript.*

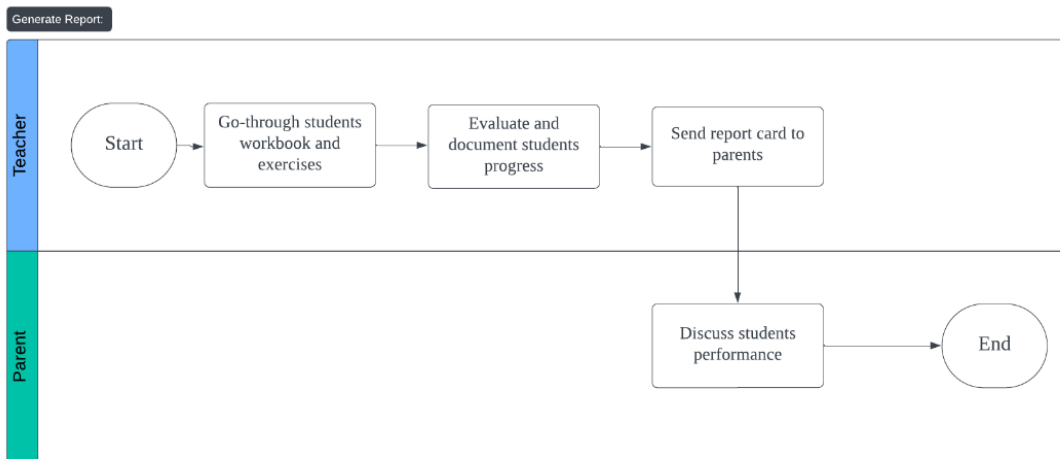
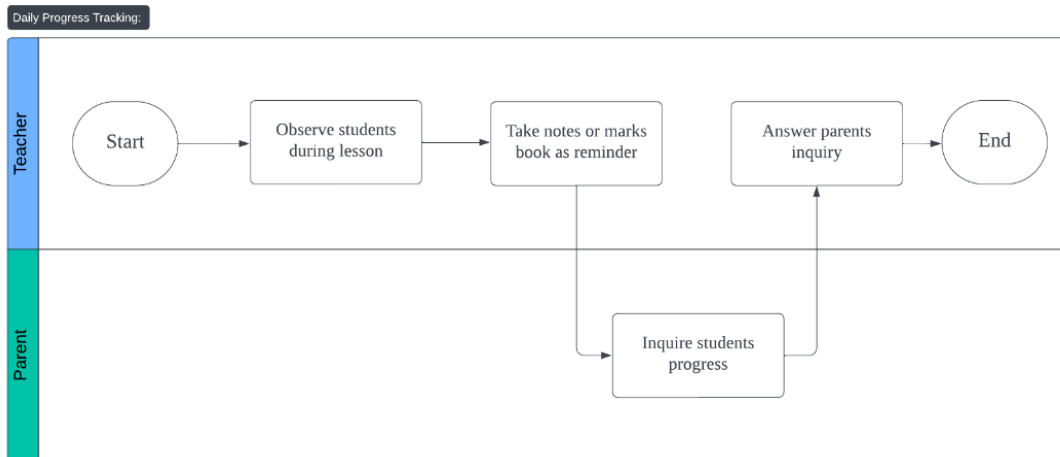
*The author confirms sole responsibility for the following: study conception and design, data collection, analysis and interpretation of results, and manuscript preparation.*

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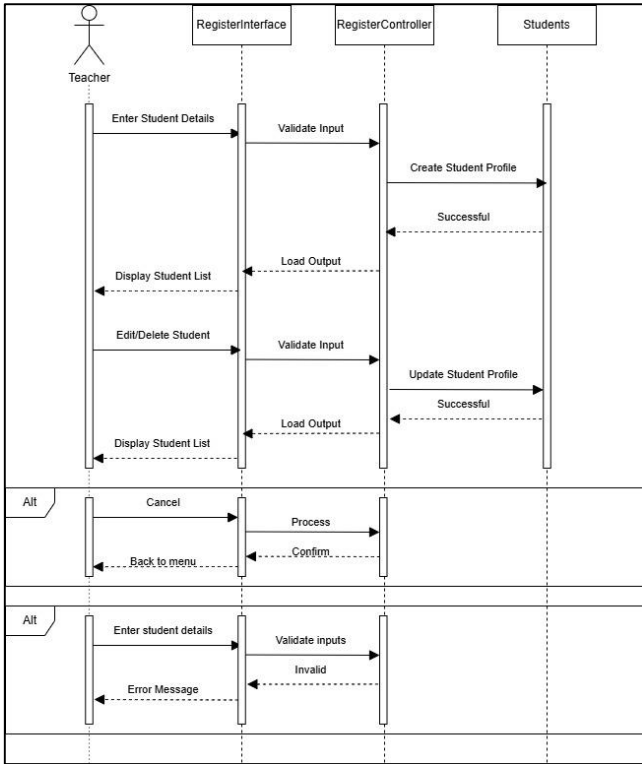
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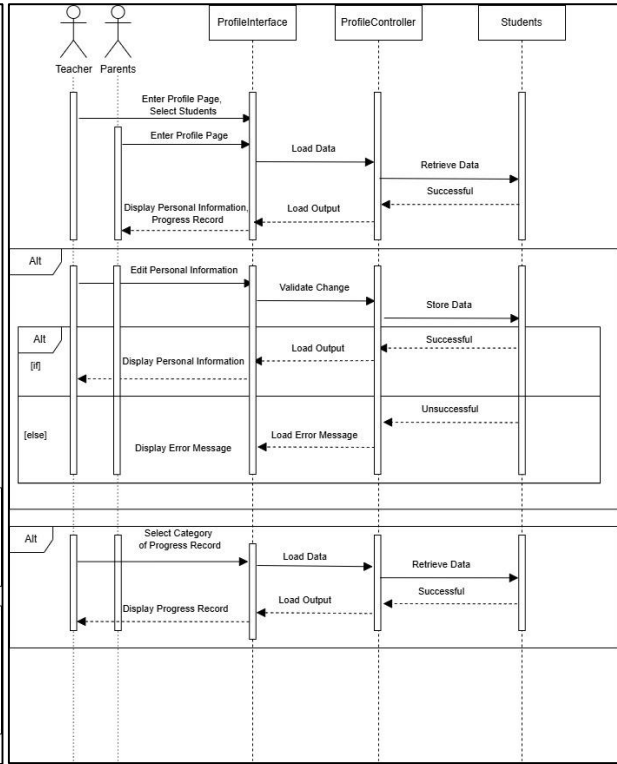
### Appendix A: As-Is Model



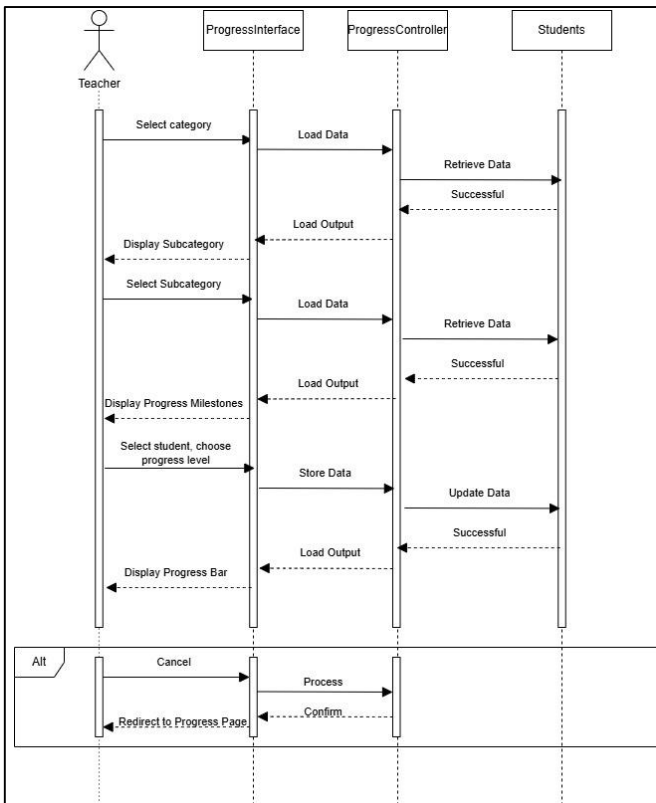
### Appendix B: Sequence Diagram



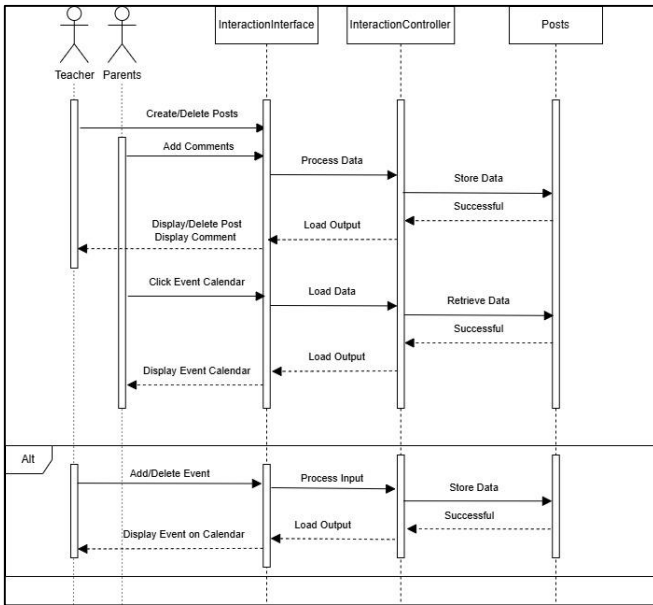
Student Registration Module



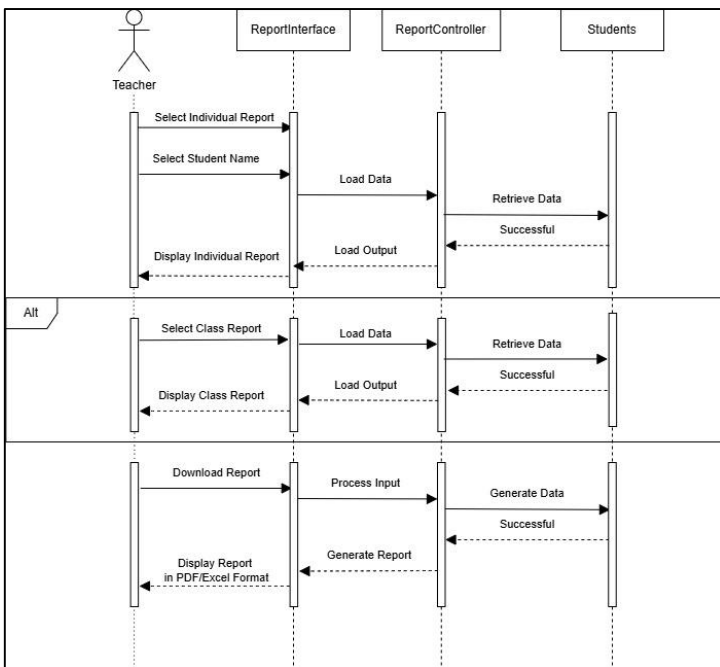
Student Profile Module



Progress Tracking Module

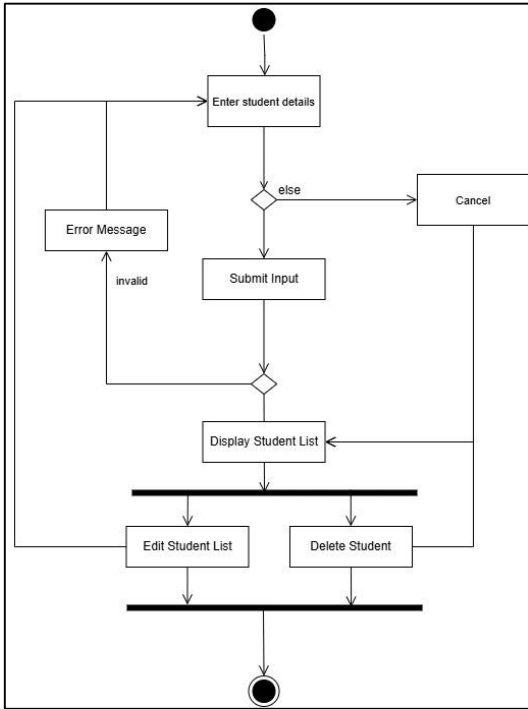


Parent Interaction Module

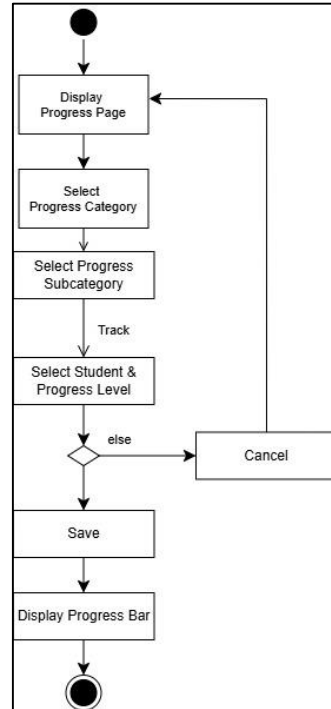


Generate Report Module

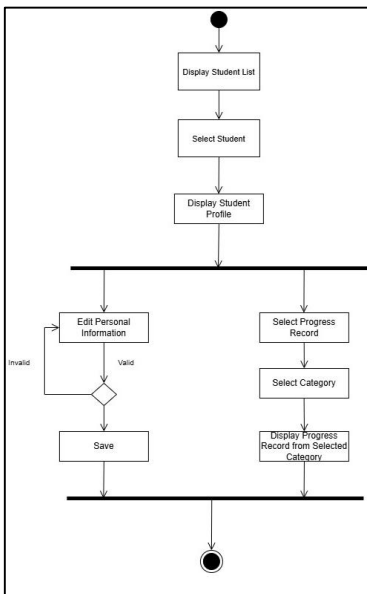
### Appendix C: Activity Diagram



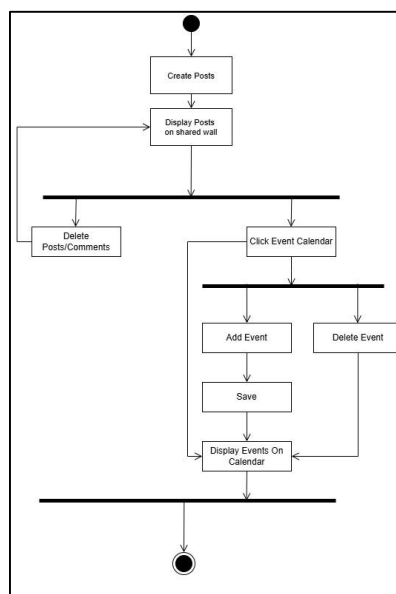
Student Registration Module



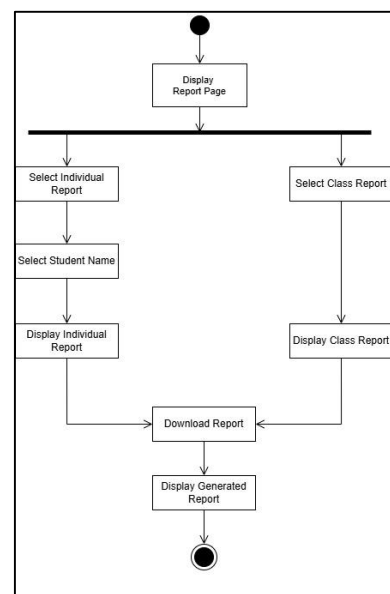
Progress Tracking Module



Student Profile Module

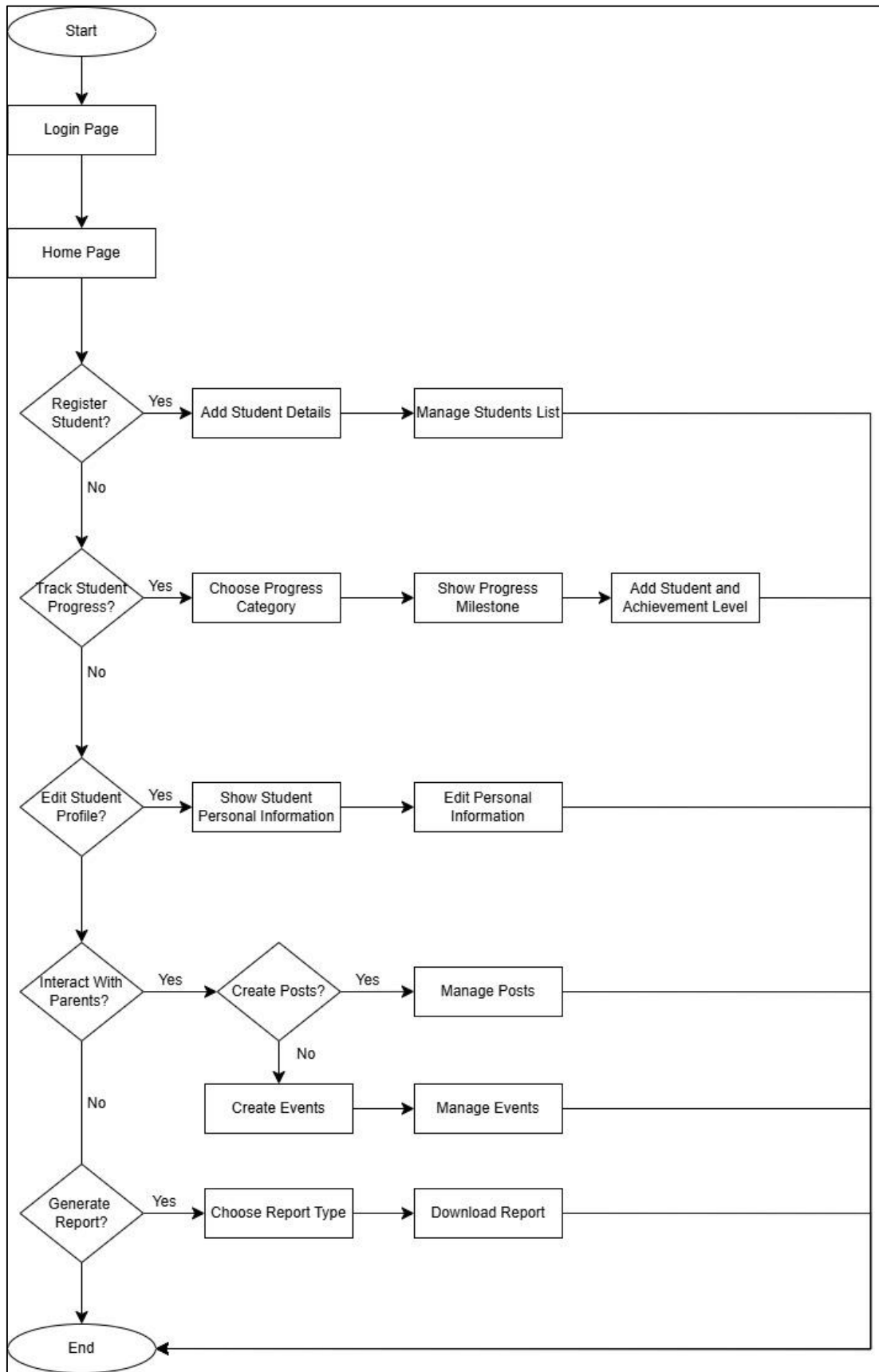


Parent Interaction Module

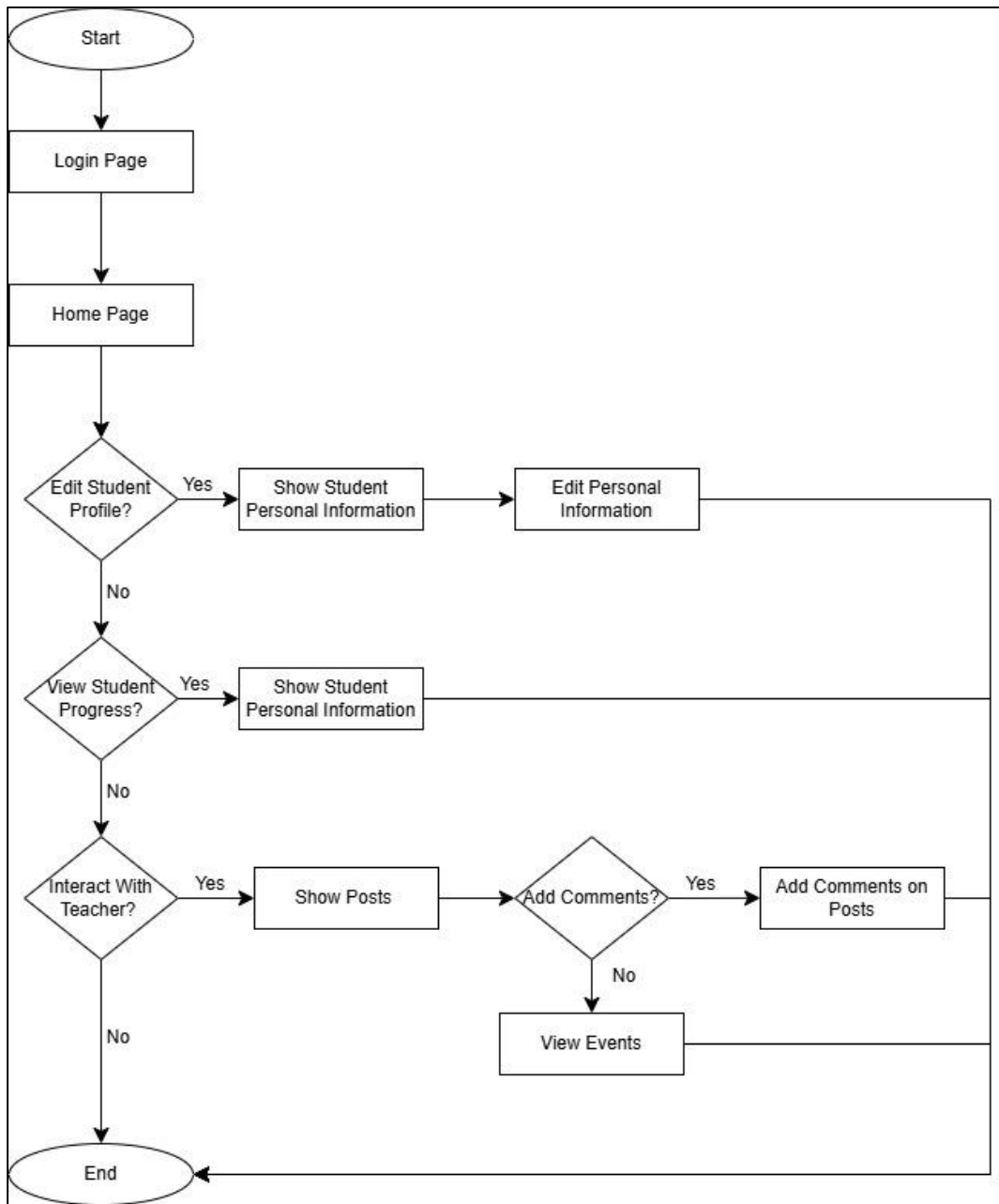


Generate Report Module

Appendix D: Flowchart

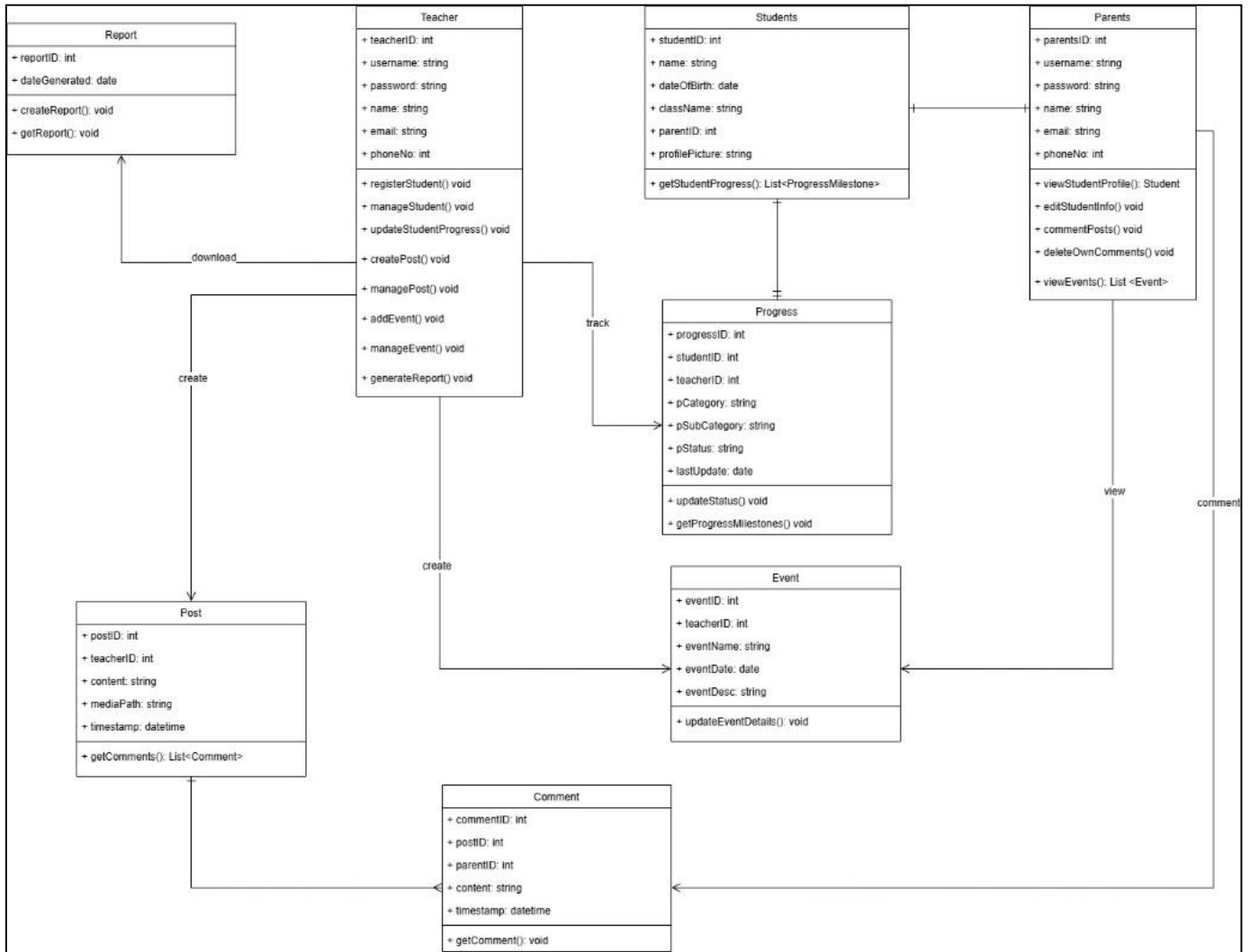


Flowchart (Teacher)



Flowchart (Parents)

### Appendix E: Class Diagram



### Appendix F: UAT Form

**PASTI-CARE: USER ACCEPTANCE TESTING (UAT) FORM**

Project Title: PASTI-CARE: Preschool Student Progress Tracking System  
 Prepared By: Nur Amyka Adnin Binti Che Rozaima  
 Matric No.: AI220281  
 Program: BIP

**SECTION A: USER DETAILS**

Name of Tester	SUZANA BT ADNAN
Role	<input checked="" type="checkbox"/> Teacher <input type="checkbox"/> Parent (PASTI DEWAN) - GURU KANAN
Contact Number	012-6220255
Date of Testing	5/6/2025

**SECTION B: TEST CASES**

Test Case ID	Module	Feature	Expected Outcome	Pass/Fail	Remarks
TC01	Student Registration	Add new student	Students are successfully added with unique ID	<input checked="" type="checkbox"/> / <input type="checkbox"/>	
TC02	Student Registration	Delete student	Student record is removed	<input checked="" type="checkbox"/> / <input type="checkbox"/>	
TC03	Progress Tracking	Update milestone	Progress level saved and progress bar updated	<input checked="" type="checkbox"/> / <input type="checkbox"/>	
TC04	Student Profile	View profile	Students' data are shown correctly to teachers.  Parents can access only their own child's data.	<input checked="" type="checkbox"/> / <input type="checkbox"/>	
TC05	Student Profile	Edit profile	Changes made by users are saved and reflected	<input checked="" type="checkbox"/> / <input type="checkbox"/>	
TC06	Parent Interaction	Post/comment	Post or comment is visible to other users	<input checked="" type="checkbox"/> / <input type="checkbox"/>	
TC07	Parent Interaction	Delete comment	Comment is deleted as expected by users.	<input checked="" type="checkbox"/> / <input type="checkbox"/>	
TC08	Parent Interaction	Add/Delete /View Event	Events are added and deleted successfully by teacher.  Events are displayed correctly to parents.	<input checked="" type="checkbox"/> / <input type="checkbox"/>	
TC09	Generate Report	Download individual report	PDF is generated and downloaded.	<input checked="" type="checkbox"/> / <input type="checkbox"/>	
TC10	Generate Report	Generate class report	Full class report is generated with charts.	<input checked="" type="checkbox"/> / <input type="checkbox"/>	
TC11	General	Responsive on browser	Layout adapts properly on browser.	<input checked="" type="checkbox"/> / <input type="checkbox"/>	

**SECTION C: USER FEEDBACK**


1. Is the system easy to use?  
 Very Easy  Easy  Neutral  Difficult  Very Difficult

2. Does the system meet your expectations?  
 Yes  Partially  No

3. What did you like most about the system?  
 Simple for teacher to use but helpful. Really aid in managing students records. Helpful for parents collaboration.

4. What improvements do you suggest?  
 Gallery wall for pictures / adding pictures for events.

**SECTION D: TESTER SIGNATURE**

Signature: 

Name : SUZANA BT ADNAN  
 Date : 5/6/2025

SUZANA BINTI ADNAN  
 Guru Kanan  
 PASTI AL FATEH  
 (PASTI DEWAN DPPKHS)