A Review on Easy Assessment App Parent and Teacher Communication

Mr. Ashutosh Ardak[1] Mr.Moazzam Ansari[2] Mr. Anas Ansari[3] Mr. Vishal Telrandhe[4]

Asst. Prof. N. M. Dhande[5]

[12345] Agnihotri College of Engineering, Nagthana Sindi (Meghe),Wardha, Maharashtra, India

[12345] Department of Computer Science & Engineering

ashutoshardak03@gmail.com[1] mohdmoazzam618@gmail.com[2] anasansari7j@gmail.com[3]

vishaltelrandhe11@gmail.com[4] nutandhande@gmail.com[5]

Abstract

Effective communication between parents and teachers plays a crucial role in fostering a child's educational development. The *"Easy Assessment App"* aims to bridge the gap by providing a user-friendly platform for seamless interactions and real-time updates on student performance. This innovative application allows teachers to easily record, evaluate, and share student progress with parents, offering transparency and fostering collaboration.

The app features customizable assessment tools, instant notifications, detailed progress reports, and a chat interface to facilitate quick queries and feedback. Parents gain access to real-time insights into their child's academic and behavioral progress, enabling informed support at home. Teachers benefit from automated grading and reporting functionalities, reducing administrative workload and enhancing productivity.

Designed for accessibility, the app supports multiple languages, ensuring inclusivity for diverse communities. By integrating advanced technologies such as cloud storage and data analytics, the *"Easy Assessment App"* ensures secure and efficient data management. This project addresses the need for a streamlined and effective communication tool that strengthens the parent-teacher partnership, ultimately contributing to a more supportive educational environment..

Keywords: Parent-Teacher Communication, Educational Technology, App-Based Communication Systems, Feedback System for Parents, Student Performance Tracking.

Introduction

Effective communication between parents and teachers is the cornerstone of a child's academic success and overall development. Traditionally, parent-teacher communication relied on periodic meetings, phone calls, or written reports, which often resulted in delays, misunderstandings, or missed opportunities for timely intervention. In the fast-paced modern world, where parents and educators face competing demands on their time, there is a pressing need for a digital solution that facilitatescontinuous, clear, and efficient communication.

The *Easy Assessment App* is designed to address this challenge by providing an intuitive and versatile platform for real-time communication between parents and teachers. The app serves as a bridge, enabling teachers to share students' academic progress, behavioral updates, and other relevant insights with parents effortlessly. This approach promotes transparency and allows parents to stay actively engaged in their child's education, regardless of their physical presence or schedule constraints.

Modern communication relies on technology, especially IT. Through this integration, it resulted in the development new communication services methods, protocols, and devices to enhance the efficiency and efficacy of human contact. Innovative teaching methods, digital breakthroughs, and a focus on involving students, parents and teachers in a full learning experience are replacing traditional educational paradigms in our fast-changing world. The majority of school behaviour issues and their remedies involve communication. [2]

Monitoring children's academic and extracurricular growth is crucial to achieving educational goals. Because many schools and parents do not value this function, parents are not aware of their children's school activities and performances. This project aims to develop a web application that meets the requirements of parents and teachers in primary school as a response to being more concerned about the child's or student's development. The website system is designed to make it easier to track academic, co-curricular and extracurricular performance results; general feedback for parents to address their concerns about the school; language support; and a PTIS chatbot for parents and teachers to easily ask it to navigate the features in the system. In addition, the system offers daily attendance tracking and reporting, a school announcement page, and an event calendar for tracking school activities. [4]

Features Available	Class Dojo	Bloomz	Parent Square	Seesaw	Proposed System
Academics tracking	X	√	√	√	√
ChatBot	X	X	X	X	√
General feedback for parents	√	√	√	√	√
Language Support	√	X	√	√	√

Table 1. Comparison Between Existing System and Proposed System

Problem Definition

- **Communication Challenges**: Parents and teachers face difficulties in effective communication and collaboration due to busy schedules and the absence of a dedicated platform.
- **Lack of Structured Feedback**: Current communication methods lack structured feedback mechanisms, making it hard for parents to address their concerns about the school.
- **Tracking Student Progress**: There is a need for a streamlined system to track student performance in academics, co-curricular, and extracurricular activities.
- **Parental Involvement**: Parental involvement in school activities and student performance is at an all-time low, partly because many schools and parents do not value this function.
- **Lack of Engagement**: Without an efficient system, parents may feel disconnected from their child's educational experience.

Objectives

1. **Enhance Communication Efficiency:**
- Real-Time Updates: Provide instant notifications to parents about their child's progress, behavior, and school events.
- Streamlined Messaging: Facilitate quick and easy communication between parents and teachers through direct messaging.

2. **Increase Parental Engagement:**
- Active Participation: Encourage parents to be more involved in their child's educa tion by providing easy

stored in one easily accessible place.
User-Friendly Interface: Design an intuitive and easy-to-
navigate app that parents of all tech levels can use.

Support Educational Outcomes:
Progress Tracking: Allow parents to monitor their child's academic performance and areas needing improvement.
- Collaborative Tools: Provide tools for parents and teachers to set goals and coll aborate onstrategies to support the child'sdevelopment.

Literature survey
[1] **Paper Name:-** Parent-Teacher Interaction System: Development of Parent Teacher Communication.[1]

access to updates and resources.
- Interactive Features: Incorporate features like surveys, polls, and feedback forms engage parents actively.
3. **Improve Access to Information:**
Centralized Information: Ensure all com munications, reports, and updates are

Author:- Kinn Abass Bakon1, Noureddon Beleid2, Zureen Zakaria3

Explanation:- Parent-teacher communication and collaboration have grown in this age of connectedness and technology. New technologies like emails, messaging apps, online platforms, and enable more frequent and easy connections. These advancements have made communication easier and revealed a child's progress, needs, and obstacles. In this introduction, this study will discuss parent-teacher communication and collaboration, its role in improving educational outcomes, and the tools and practices have arisen to support it.
Parent-Teacher Communication, Educational Technology, App-Based Communication Systems, Feedback System for Parents, Student Performance Tracking.[1]

[2] **Paper Name:-** Parent-Teacher

Communication from the Perspective of the Educator[2]

Author:- Enikő Major1

Publication:- . International Journal of Engineering Technology and Management Sciences October -2023
Explanation Several, mostly quantitative, studies have already examined the relationship between teachers and parents, as well as the positive effects of parental involvement. The aim of this study is to explore how parental involvement is realized in communication between the two actors. In the framework of a qualitative study, semi-structured interviews were conducted with 31 teachers teaching in elementary schools, and the analysis was performed using the Atlas.ti software. Based on our findings, we concluded that regular communication, common language use, a positive attitude from both parties, and the appropriate use of information and communication technology tools are essential for effective communication.[2]

[3]   Paper Name:- The design of mobile application for teacher and parents communication in indonesian school[3]

Author:- Sholeh Hadi Setyawan1, Dhiani Tresna Absari2, Susana Limanto3, Andre

Publication:- Information System Department, University of Surabaya, Surabaya, Indonesia 2016

Explanation:- One of the success factor to achieve education goals is the good communication between the student's parents and the school. Most of Indonesian schools use written communication in form of communicator book, renewed yearly when the student move to the new grade. All of the important information contained in the conversation will be lost if the book is missing, torn, damaged or replaced by the new book. The response time of the conversation is very slow, parent should wait the answer from the school until the student goes home. [3]

[4]   Paper Name:- A Web-Based Parent-Teacher Collaborative System for Monitoring Students' Academic Performances in Nigerian Schools[4]
Author:- Godwin Ejikeme Aniegwu[1], Moses Okechukwu Onyesolu[2], Ikechukwu Ekene Onyenwe[2], Daniel Ugoh[2]

Publication:- Department of Computer Science, Nnamdi Azikiwe University, Awka, Nigeria. 2022
Explanation:-Parents play vital roles in contributing to students' achievement. They need to be actively involved in monitoring their children's daily performance in school. This thesis focused on the design and implementation of a web-based system for engaging teachers and parents in monitoring students' performance. It is aimed at providing a well-designed platform for real-time communication between teachers and parents with respect to children's daily performance in school.[4]

[5]   Paper Name:- Investigating factors affecting learning satisfaction and perceived learning in flipped classrooms: the mediating effect of interaction[5]
Author:- Guan-Yu Lin

Publication:- Department of Information Management, National Changhua University of Education, Changhua City, Taiwan 2022
Explanation:-Parents play vital roles in contributing to students' achievement. They need to be actively involved in monitoring their children's daily performance in school. This thesis focused on the design and implementation of a web-based system for engaging teachers and parents in monitoring students' performance. It is aimed at providing a well-designed platform for real-time communication between teachers and parents with respect to children's daily performance in school.[5]

Methodology

1. **Needs Analysis:**
- Stakeholder Interviews: Conduct intervie ws with parents, teachers, and school administrators to understand their communication needs and challenges.
- Surveys and Feedback: Distribute surveys to gather detailed insights on current Communication methods and areas for improvement.

2. **Requirement Gathering:**
- Functional Requirements: Define the core features of the app, such as messaging, notifications,progress tracking, and reporting.
- NonFunctional Requirements: Specify performance criteria, security measures,and usability standards.

3. **Development Phase:**
- Backend Development: Build the server_ side components, including databases, APIs, and

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authentication mechanisms.

- Frontend Development: Develop the client_side interface, ensuring responsiveness across different devices.

4. Testing and Quality Assurance:
- Unit Testing: Test individual components to ensure they workcorrectly.
- Integration Testing: Verify that different parts of the app work together seamlessl.

Data flow Diagram

Advantages & Disadvantages

Advantages

1. **Real-Time Communication**:
- Parents receive instant updates about their child's progress, upcoming events,ad any issues.
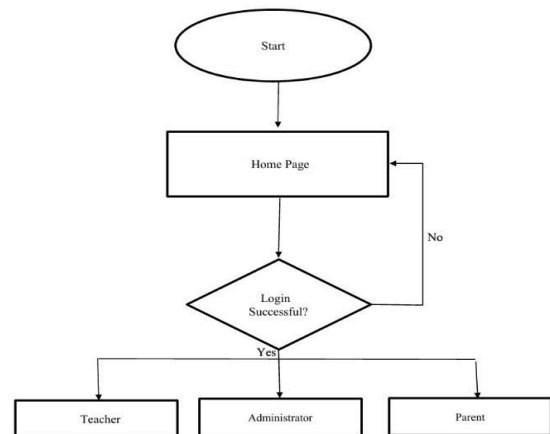- Enables immediate feedback and support

2. **Increased Engagement**:
- Keeps parents actively involved in their child's education.
- Helps build stronger parent- teacher relationships.

3. **Accessibility**:
- Information is available anytime and any where through the app.
- Suitable for busy parents who might not be able to attend regular meetings.

4. **Efficiency**:
- Saves time for teachers by automating reports and updates.
  Reduces the need for paper-based communication.

Disadvantages

1. **Digital Divide**:
- Not all parents might have access to the required technology or internet.
- Can create disparities among students if some parents are unable to use the app.

2. **Notification Overload**:
- Parents may feel overwhelmed by too many notifications.

Fir. Data flow Diagram

- Important messages might get overlooked if there are too many updates.

3. **Privacy Concerns**:
- Storing sensitive student information on a digital platform poses privacy risks.
- Requires stringent security measures toprotect data.

4. **Technical Issues**:
- Potential for bugs and technical glitches t hat could hinder communication.
- Requires ongoing maintenance andsupport.

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