



An Undergraduate Internship/Project on Topic
The Postman 24 Records

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**Dissertation submitted in partial fulfilment for the degree of Bachelor of Science in
Computer Science**

Department of Computer Science & Engineering

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Attestation

This is to certify that the report titled “**The Postman 24 Records**” - A web-based dashboard latest research reading portal which was completed by Amira Hossain (1610163) submitted in partial fulfilment of the requirement for the Degree of Computer Science from Independent University, Bangladesh (IUB). It has been completed under the guidance of Md. Fahad Monir (Internal Supervisor) and Mr Shahriar (External Supervisor). I also certify that all my work is original and has not been submitted earlier to this university or any other institution. All the source of information used in this Project Report has been duly acknowledged in it.

Signature

Date

Acknowledgement

I am using this opportunity to express my gratitude to everyone who supported me throughout the course. I am thankful for their aspiring guidance, invaluable constructive criticism, and friendly advice during the internship. I am sincerely grateful to them for sharing their truthful and illuminating views on a number of issues related to the course.

I am grateful to Independent University, Bangladesh (IUB) for offering me this course, and I express my thanks to my faculty and internship supervisor, MD Fahad Monir.

I want to stretch out my earnest gratitude to him. I am profoundly obligated to Independent University, Bangladesh (IUB) for their direction and consistent supervision, just as for letting important data with respect to the course.

I am very much grateful to my external supervisor, Mr Shahriar Alam for the guidance and support that I needed for the fulfilment of my internship and project. I might want to offer my extraordinary thanks and gratitude to the IT Department developers (from The Postman 24) and employees for giving me such consideration and time and directing me through the internship.

I also want to thank my parents for supporting me financially but have always believed in me and always motivated me to accomplish the things that I achieved.

Letter of Transmittal

Date:

Md. Fahad Monir

School of Computer Science and Engineering

Independent University Bangladesh.

Subject: Submission of Internship Report.

Dear Sir,

It is a great pleasure to submit my report on the Internship at The Postman 24. I have tried to narrate my project works, achievements, and experiences in this report. All the works presented here are done with utmost sincerity and honesty.

During the internship period, I have served in The Postman 24 for four months where I have not only gained real-life work experience but understood the process of the department and its various aspects. This report includes a detailed review of the office as well as the functionalities of the department. As a document of my effort during the internship periods I have conducted all the project works that I have done during my internship periods, especially their requirement, functionalities, and technical specifications.

I pray and hope this report will be quite interesting and fulfil your expectations. I have tried my best to avoid my deficiencies and hope that my report will satisfy you. I also would like to thank you again for giving me the opportunity to submit this report.

Sincerely,

Amira Hossain

ID- 1610163

Evaluation Committee

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Signature

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Name

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Supervisor

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Internal Examiner

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External Examiner

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Convener

Abstract

The website program system "**The Postman 24 Records**" is a custom-made solution for storing various types of records required by our organization. It will keep track of and help manage the process of reaching out to our employees. Through the registration process, we will save the profile of the employees and keep track of who registers so that to the system. The users will then upload their "news content" or "articles," which will be verified and edited before being published on the official The Postman 24 website. The Admin will be able to view attendance records to determine which employees are active and which are not. HR can use this system to send an important notice to all employees at the same time, as they will all be joining the system. Also, as a media organization, there are conferences, events, and programs that are sponsored by other companies or that we are creating, so we need our journalists to participate in them, and they will be noted if they check on "Calendar View." There are software tools that can be purchased to keep track of employees, but this is a customized solution related to the organization and has the features that are required to be present rather than having too many options or not relevant needed functions. It will be a more secure and safe data collection record for the company. We will be able to transition from a manual to an automated data collection system.

Firstly, the main duty was Brainstorming to come up with ideas to design the whole mechanism. It needed to be simple and also user-friendly. The website system was required to be not so complicated so that Non-IT department users would be able to understand its structure.

Now, our organization wants to reach out to journalists from every country. We are successfully working with 27 countries. This **system of record** will allow us to grow a network and provide everyone around the world to unite and work about the issues and current affairs. The organization has a good number of social networks to implement this project. Through this system, we will allow students as volunteers, journalists, and other occupation people to attend the system.

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Chapter 1 Introduction

1.1 Overview/Background of the Work

The Postman 24 is a media organization dedicated to bringing its audience news from around the world and incorporating new forms of thought into journalism. This media does not only provide news but also works to bring the world closer together through various initiatives and aims to increase participation in various international projects. Our team works tirelessly to achieve all of our objectives and to always present something new in local journalism.

I am creating a project called “The Postman 24 Records” . It is a web-based system where the HR or Manager (multiple admins) will be allowed to use the setup to keep records of the organization [1]. There are many tools that help out HR to keep records of their employees and some companies are an old school on using Microsoft Excel. Now, this records web-based system is customized for the specific requirements needed for The Postman 24 to track down their employees and keep a connection with them through this secured, user-friendly web-based setup. After various research on what an HR needs to keep proper control over their employees [1]. There was some questionnaire done to sort out what features and functions needed to create “The Postman 24 Records”. This demo project will give a proper visualization of the implementation of proper interactions with the employees even though they are not in the same country. Most media organizations plan to reach out to other countries and jump from being a local news outlet. I took a new initiative on helping the organization by recording the activities of the employees and also giving a statistical graph on which countries journalists (employees) do we target or give proposals to join and be part of The Postman 24.

As our working habits change, so, too, must the way businesses manage their staff. Organizations must invest in new technology to both improve the employee experience and increase the bottom line in order to meet the needs of a modern workplace and attract the highest caliber talent. Human resources software saves time and reduces paperwork by automating tasks and handling information [2]. When an HR team has access to all of the information they need to make with the click of a button, errors are reduced, compliance risks are reduced, and policies are more consistently enforced.

Organizations can transform the roles of both employees and managers to be more strategic and engaging by minimizing paperwork and streamlining processes. HR software enables employees to concentrate on higher-level tasks, resulting in better planning, more strategic decision-making, and higher job satisfaction [2].

1.2 Objectives

The main objective is to develop a robust Custom Solution Database Management System for The Postman 24.

In short, my aim is to make sure we create an easy, secure and stable system where users can positively look into our organization and use the system. And takes participation/contribution to The Postman 24 by keeping an eye on the calendar schedule of the conferences, documentaries, or live shows. In time,

there will be more functionalities added to it to make it more attractive and more options for understanding and building communication between employees and HR.

Specific Objectives

- To research about the organization and analyze the necessary needs.
- To know about the HR system
- Develop a feasible solution to handle management activities in the organization
- Create an effective means of communication between employees, directors, and managers.
- An overall design system of storing records of The Postman 24
- To create a record system of users registered
- To create a profile page for the users
- To create a calendar page for events
- To create a submit work file page for receiving news reports

Problem Statement

- Online attendance system - check if they are submitting their work on time
- This system helps to monitor the workflow of our hired employees
- Resolve the manual data logging system and make it online based for more secured and accurate data logging
- Employees can see the organization's event schedules

1.3 Scopes

The scope of the web application is the following scenarios:

- All employees registered in one system
- Management of receiving authentic information/profile of users
- Interaction platform for employees with the organization

Limitations:

- Users cannot delete their profiles, only the admin has the rights
- If admin allows then the user is accepted to log in to the system

Product Perspective:

- To provide the organization with a list of employees by recording their profiles
- To provide immediate assistance to the employees for any problem/absence of issues facing in this job

Web Application Features:

1. Login Interface by thepostman24.com
 - Email address
 - Password

2. Registration by Employee
 - First Name
 - Last Name
 - Job Title
 - Email
 - Password
 - Registration Date
3. Authentication for login
4. Information is stored from the profile page, attendance, job reporting records
5. The profile page can be updated with information
6. Calendar set by admin
7. Calendar view by users

Chapter 2 Literature Review

2.1 Relationship with Undergraduate Studies

This project is related to my undergraduate courses, as I am from the Computer Science Department, I have learned multiple computer languages and thus know the code of making various applications. Some of the courses where I can relate my project would be. Throughout my undergraduate studies journey, I have learned the basics of understanding software programming and complex algorithms on forming a proper system running. I have received a glimpse of how real-world web applications work in general. Regarding the project, some of the courses did give enough ideas on creating a web application. Now, the relevant courses would be CSC 401 - Database Management, CSC 203 - Data Structure, CSC 455 - Web Applications and Internet, and CSC 305 Object-Oriented Programming. However, courses like CSE 457 - Project Management, CSE457 - Software Engineering Processing Management, and CSC 445 - Software Engineering, have given me knowledge on planning, implementation, and the outcomes of a project. While creating these applications I have realized that there is a need for good knowledge on a project rather than just noting it into some points and then running with those thoughts. There is more information needed to be planned before executing on starting a project.

2.2 Related Works

The Postman 24 Records is similar to HR solutions or an Employment Management System. But this is a combo of each of these other applications and creates a feasible system. This will help the organization to spread through countries they haven't reached, and have an easier direct connection with the employee. A number of researches have been written on the record system that follows the different methodology and looked into the errors and issues that are limited due to limited or misuse of functionalities.

The following summary of the different systems below gives a slight idea of what my project is related with:



- Jorani is a leave management system developed using PHP/MySQL for small firms that offer simple leave and overtime request workflows [4]. It has the benefit of getting leave calendars to see who is on leave. Create a complex organization that includes countries, branches, subsidiaries, and departments. It is best for simple approval workflows, easy reporting, and defining your organization.



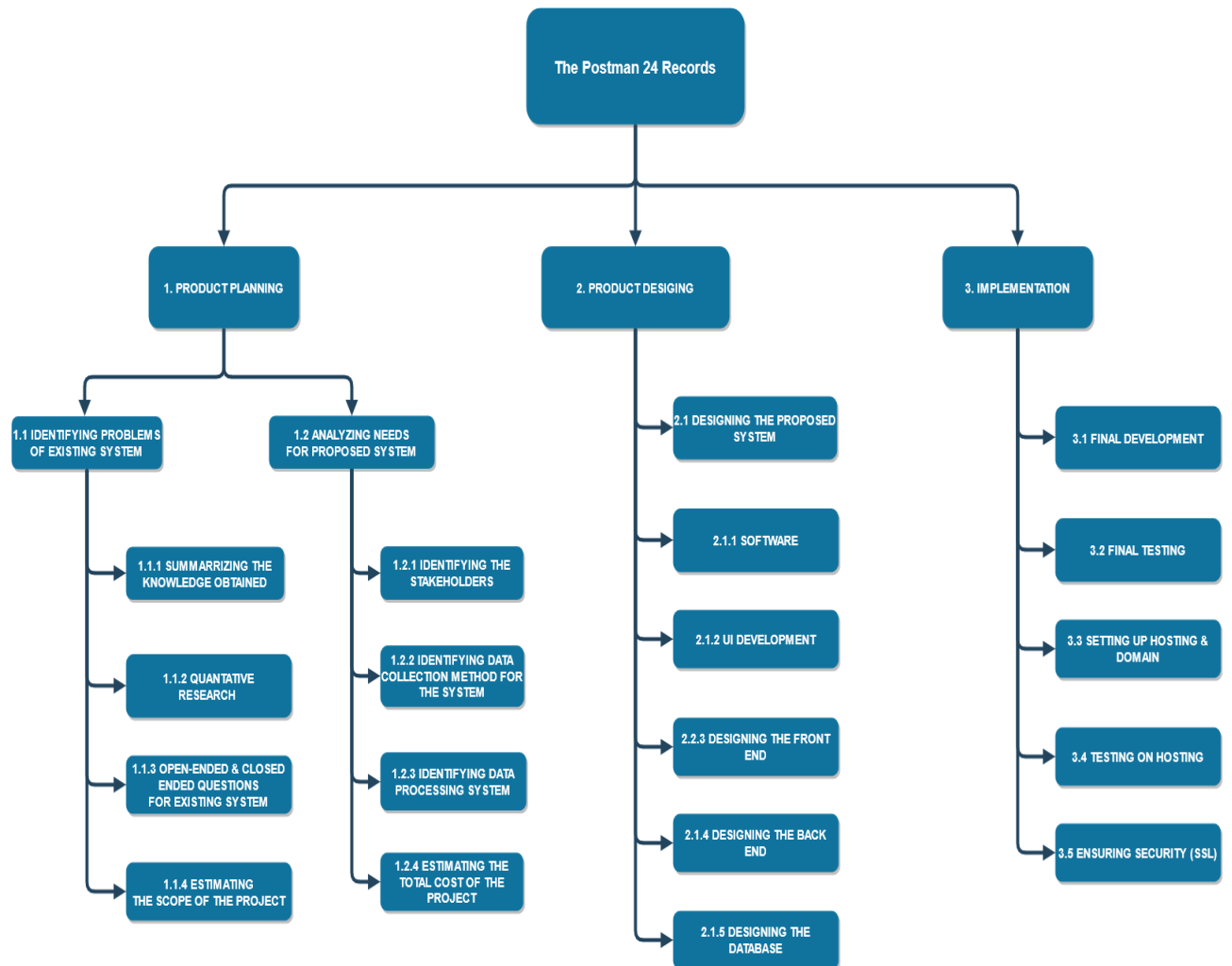
- Teamdeck is a web-based, integrated task scheduling and performance monitoring tool that provides scheduling [5]. And a way to store data for better team management and shows users their team's leisure time so users can assign a current project in the proper proportion by looking at the transparent calendar. The advantages are that your team's performance can be measured with precise timesheets, employee time off can be managed, and daily availability can be managed. It is best to manage employee availability through resource scheduling, time tracking, and timesheets.



- BambooHR is an online human resource (HR) software service for small and medium-sized businesses that uses a specific system for consolidating all employee and human resources-related data and managing a variety of human resources activities [3]. The benefits of this system are that it saves time, money, and trees, and that electronic signatures make it easy to create detailed reports on almost any data in the system, and that it allows users to create custom workflows to be more efficient in their decision-making processes. It has an applicant tracking system (ATS), employee self-onboarding, and time-off tracking as its best features.

Chapter 3 Project Management & Financing

3.1 Work Breakdown Structure

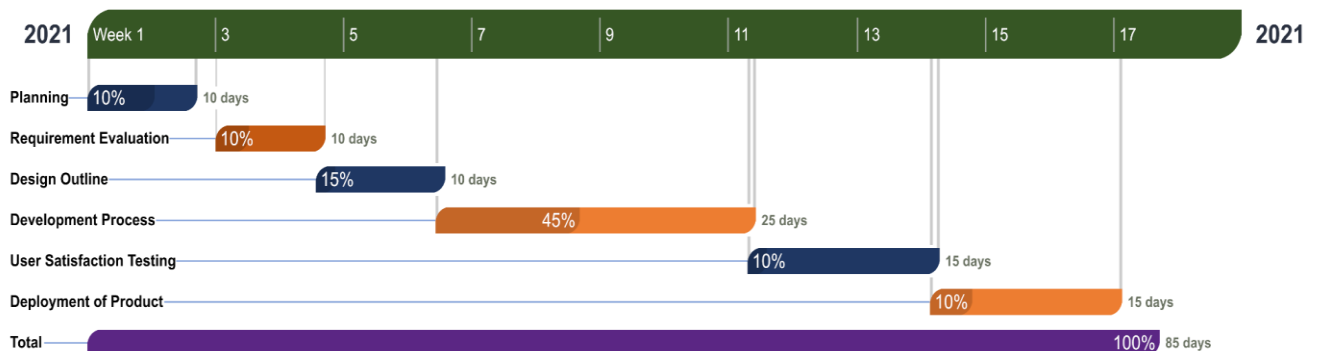


3.2 Process/Activity wise Time Distribution

Milestones	Days	Execution Percentage
Initial Planning	10	10%
Requirement Evaluation	10	10%
Design Outline	10	15%
Development Process	25	45%
User Satisfaction Testing	15	10%
Deployment of Product	15	10%
Total	85	100

3.3 Gantt Chart

The Postman 24 Records



3.4 Process/Activity wise Resource Allocation

The Postman 24 Records is used mainly by the users who have been hired to join the organization. Hence behind the scenes are all the resources I have been working to make the reality of keeping records of all the employees and track down their active participation with our organization. It is very important to allocate every resource. My primary resource for the project is my documents for planning, computer, internet server, stationeries and equipment like my chair/table to be counted as resources.

Initial Planning:

At the first stage of development, there are few orders that were proposed by the Organizations to get a customized development solution of tracking their employees and keeping a proper healthy connection and also a measurement on what position the business is standing upon, it is similar to a generic product but more suitable for precise organizations who follow up the same purpose of goals like our business.

Requirement Evaluation:

I have a small team who worked on the predictions of what are the actual requirements needed for this web application to be successful in the time period. Like, the features and their functions, and assumption of the employee's data to be entered at the first release of this application, and etc.

Design Outline:

Designing plannings where we create an attractive outlook of the website for the user-friendly user and design the features with few diagrams to implement in the real-time of the application.

Development Process:

This project was created in different parts of the development of the web-based application. Every week there is a set of goals that was supposed to be completed and besides working on other projects too, this project was a bit slow at the beginning but then again fix the amount of work distribution each day did help in developing the application to be done on time.

User Satisfaction Testing:

Several attempts of testing was done simultaneously as the features of the application were processed. This clarified the errors and bugs to be cleared while working on the development of the project and then progressing with the next step of the feature to work on.

Deployment of Product:

The software deployment aimed to have a good quality workable application that successfully did the end of the deadlines.

3.5 Estimated Costing

Requirement Quantity Amount		
Printer	1	3500 BDT
Domain	1	1500 BDT
Server	1	1500 BDT
Subtotal	7	6,500 BDT

Chapter 4 Methodology

The Postman 24 Records system was made by following the methodology of the Iterative Waterfall Model. Nowadays people seek user-friendly applications. I am using Html, CSS, Bootstrap and PHP to build this system. It is responsible for any device like smartphones, laptops, computers, tablets and so on. When I am implementing Bootstrap, then this allows me to create a visible for any ratio of the screen.

This flow chart represents the workflow and concept I am following to achieve my goal in this project. It gives a short brief on my idea.

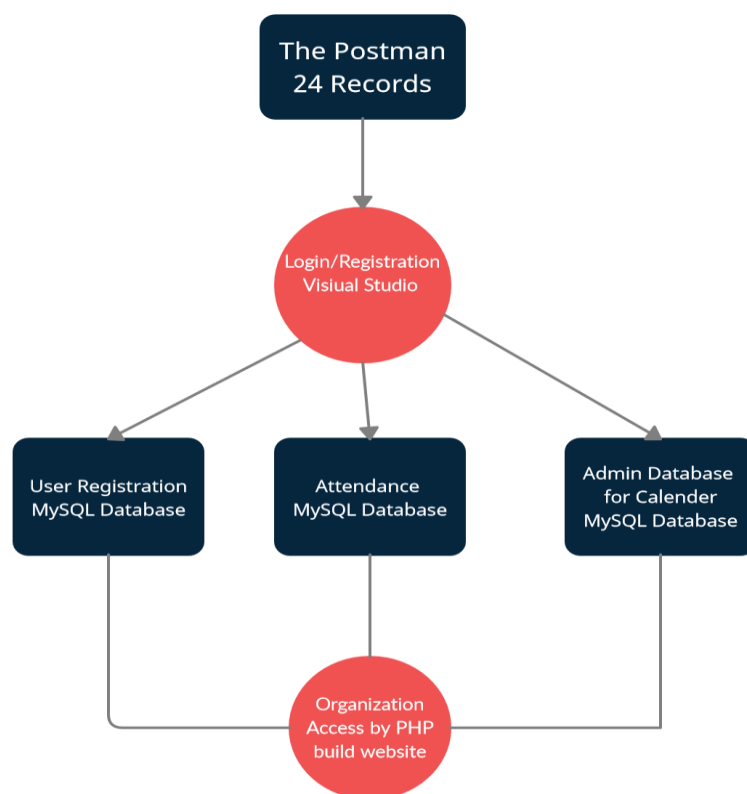


Diagram: Explaining the methodology of the system

First, I will be building up a registration and login system by implementing my code through Visual

Studio Code, which is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, macOS, and Linux. It comes with built-in support for JavaScript, TypeScript, and Node. Then we connected the database through PHP to MySQL to store it. Lastly, all these data will be showcased on the locally hosted website which is designed by HTML, CSS, and Bootstrap languages.

- **Html** - It gives the basic structure of the project. It is actually browser-friendly code. Everything is visible in your browser and can add the logo, buttons, using this HTML code.
- **CSS** - It gives the style of the project. It gives the shape and size of the project. Have to add a stylesheet on an HTML file rather than it not working or can't give you the beauty which your project and clients want from you.
- **Bootstrap** - Basically, Bootstrap is not a code it removes your ratio problem that is the main reason it can access from any device and any ratio screen. Any screen ratio it's not a problem when you use bootstrap
- **Javascript** - It is a well-known script language that makes the site interactive for the user. It's used to improve the functionality of a website to work with cool software.
- **PHP** - using this PHP I created the front end and back end, the full project, and image and text are used in PHP format that helps me to connect to the database.
- **MySQL** - It is a high-performance but relatively simple database system and is much less complex to set up and administer than larger systems. I can access MySQL using applications that support ODBC (Open Database Connectivity), a database communications protocol developed by Microsoft. This helped me to store my data and showcase the records entry by the user.

Chapter 5 Body of the Project

5.1 Work Description

I have simple features to work within my project. First and foremost, I must create a login/registration page for the user. An overview of the basic interface is provided. Create a responsive home page and a top nav bar with a few categories to choose from. It will include a Profile page where users can access and update their personal information and also a save button. Then there's an attendance page where users can click a button to confirm that they're using the system, followed by a file submission page where they can fill out the information and submit the doc/pdf file. Finally, they will see the upcoming events for The Postman 24 in "Calendar View." There will be a basic Privacy Policy and Terms Conditions.

5.2 System Analysis

5.2.1 Six Element Analysis

The first step in explaining the above table of six-element analysis is to create an account by filling out the registration form. After that, you will have to wait for the Admin to authorize the user Login permission. The user can then navigate to the attendance page and click on the attendance button. The user could then upload the file containing the written news content. Following submission, the user could go to the calendar page and see what events are coming up and decide to choose whether or not to participate.

System Roles						
Process	Human	Non-computing Hardware	Computer Hardware	Software	Database	Communication & Network
Upload Files	Select File from PC/Laptop	N/A	Computer/Laptop	Website	Stores all the resources DBMS((SQL)	WAN/LAN
Attendance report	Select option from website	N/A	Computer/Laptop	Website	Stores all the resources DBMS((SQL)	WAN/LAN

Update and Change Profile Page information	Fill in the boxes from website	N/A	Computer/Laptop	Website	Stores all the resources DBMS((SQL)	WAN/LAN
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5.2.2 Feasibility Analysis

The feasibility analysis study is the process of determining whether or not a problem can be solved, for casual purposes, and evaluating the range of costs and benefits associated with various alternatives for solving the problem. [6] To determine the viability of an application, feasibility studies must first be conducted. After studying this system (new system) and gathering all of its possible data, I must consider the three factors listed below:

- Technical feasibility
- Operational feasibility
- Financial Viability

Technical Suitability

Technical Feasibility gathers information about the existing computer system software, hardware, and so on, as well as how it can support the stated addition to some extent. The project is much more efficient, comfortable, and user-friendly to understand because it is designed with JavaScript and Bootstrap as the front-end and PHP as the backend. With SQL Server as a backend, a large amount of data can be handled efficiently. As a result, this Application has high scientific reliability.

Operational Feasibility

The term "operational feasibility" refers to the likelihood that the proposed system will be used effectively once it has been developed. It is a way of measuring how well the new method solves problems and takes advantage of the possibilities identified during the scope definition phase of system development, as well as how well it meets the conditions identified during the requirements analysis phase of system development.

Economic Feasibility

The cost-effectiveness of an information system solution is measured by its economic feasibility. For most systems, financial justification is the "Bottom Line" event. Economic reasoning encompasses a wide range of concerns, including cost-benefit analysis. In this phase, we weigh the costs and benefits of the candidate system, and if it fits the main purpose of the organization, i.e., profit-making, the project proceeds to the analysis and design phase [6].

5.2.3 Problem Solution Analysis

- Hashing Password: There was a problem with the json web token (JWT) to secure the User / Admin password inside the database, which has been fixed.
- Calendar view: There was an issue with showcasing the event details from the Admin to view by the User.

5.2.4 Effect and Constraints Analysis

Goals:

The website tracks newly hired employees' updates and attendance, allowing organizations to provide authentic news content on time. Users' emails were essentially updated on a spreadsheet, which is neither reliable nor secure. However, there are limitations to properly storing the records depending on which cloud service provider is suitable. More implementations, as well as more functionalities for better employee visualization, are required to keep the system running properly. Also, later on, create payroll and display an AI analyst's graphical view of the cost and analysis of the expense of hiring employees (journalists).

5.3 System Design

5.3.1 Rich Picture

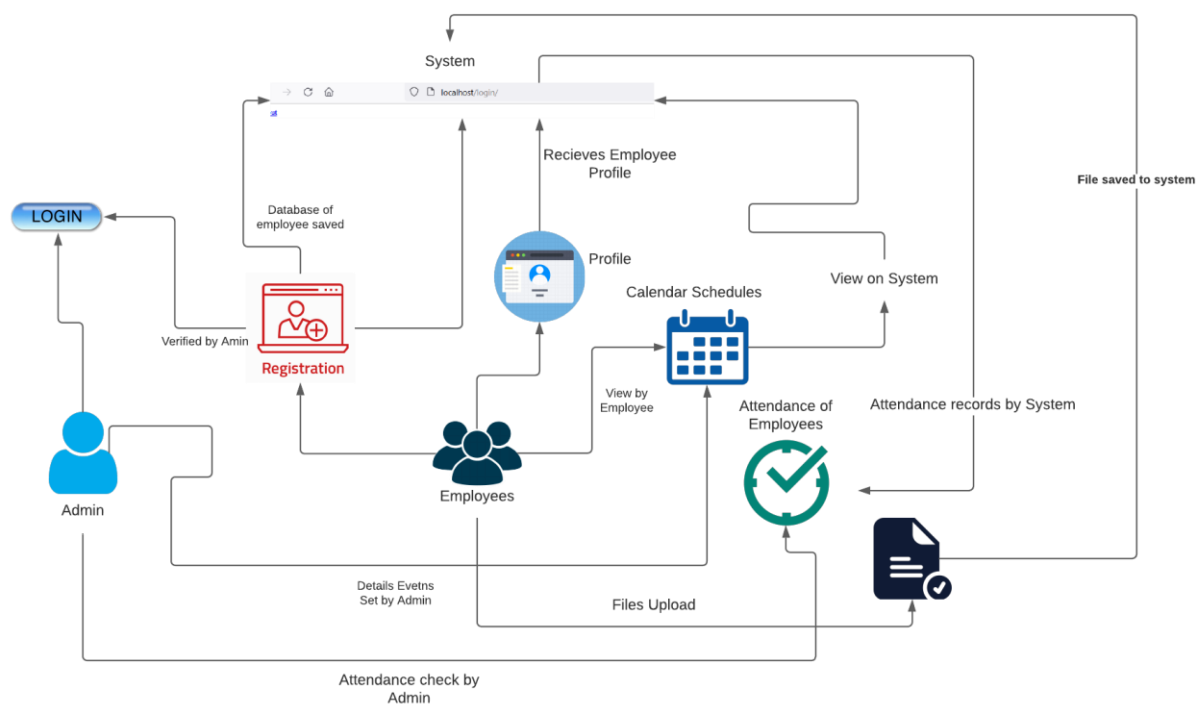


Figure 1: Rich Diagram of the System

5.3.2 UML Diagrams

In UML, a use case diagram is a dynamic or behavior diagram. Use case diagrams to model a system's functionality using actors and use cases [7]. A use case has become a collection of actions, services, and functions that the system must perform. A "system" in this context is something that is being developed or operated, such as a website. The "actors" are people or entities who play specific roles within the system.

It helps to visualize a system's functional requirements, which will translate into design decisions and development priorities. They also aid in the identification of any internal or external factors that may influence the system and should be taken into account. They offer an excellent high-level analysis from outside the system. Use case diagrams to specify how the system interacts with actors while ignoring the specifics of how that functionality is implemented.

I have shown a user's activity below which demonstrates the system:



Figure 2: Use Case Diagram of the System

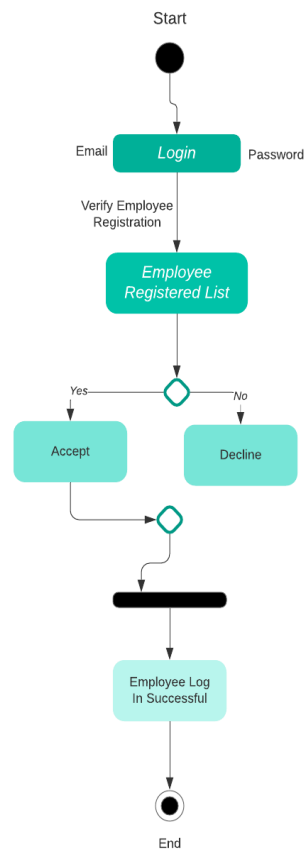


Figure 3: Admin Activity Diagram of User Verification

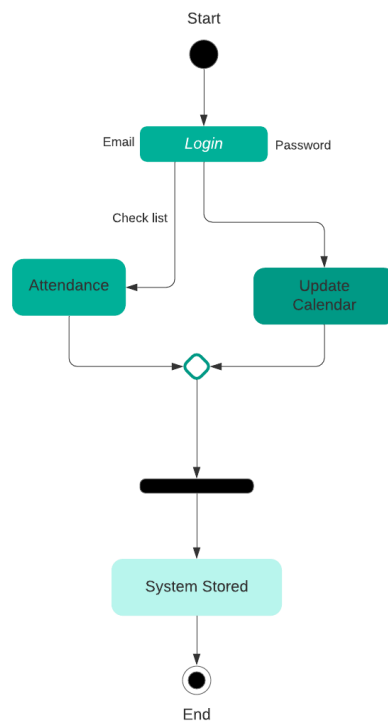


Figure 4: Admin Functions Activity Diagram

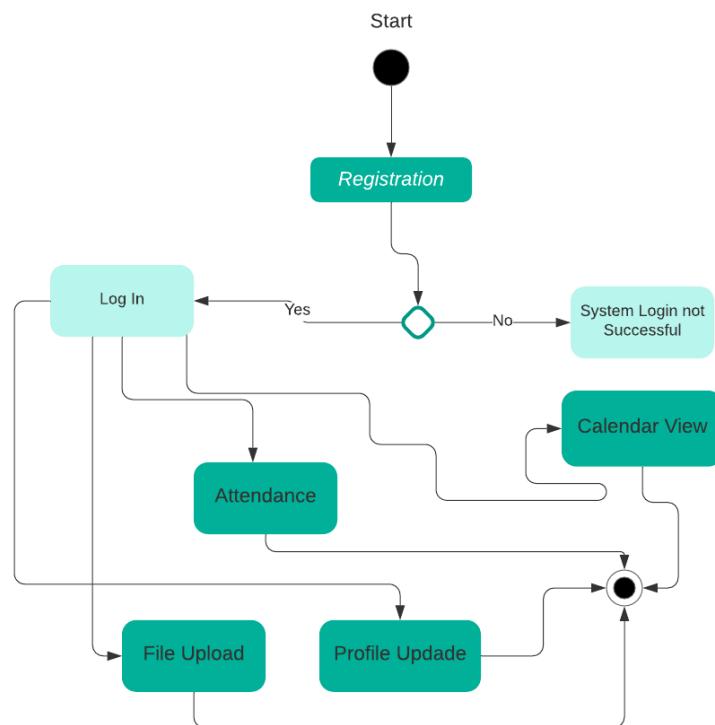


Figure 5: Employee Activity Diagram

5.3.3 Functional and Non-Functional Requirements

Functional Requirements

Authority

- Add Calendar Event

New registration entries entered in database

- Verify User

Employee uploading files

- Upload file (format: pdf/docx)

Admin view attendance of employees from database

- Attendance report

Inquiry all current enrolled customers to view their details

Employee

- Authentication

Employee must authenticate before accessing system by Admin

- Register user

Employee must fill-up application form for registration to use the system

Non-Functional Requirements

- Security:

Only authorized users can access the system with email and password.

- Performance:

Records and updates can be easily tracked.

- User Friendly:

The system is designed to be very interactive.

- Maintainability:

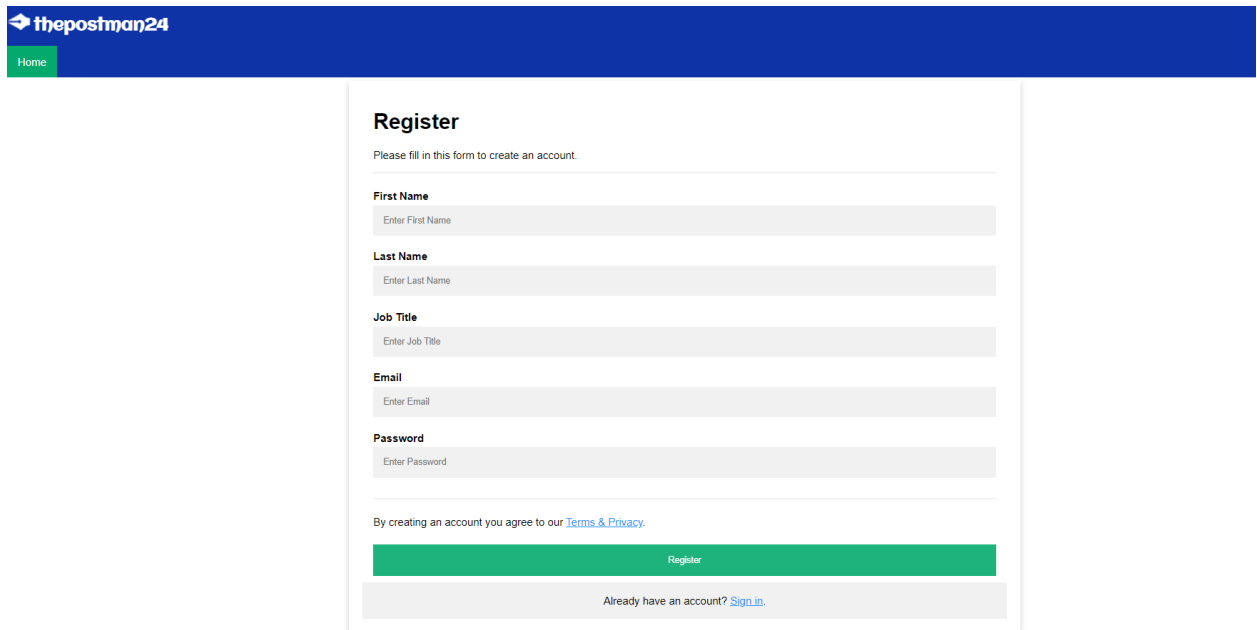
Backups for databases are available.

- Service:

The system will run 24 hours a day and 7 days a week.

5.4 Product Features

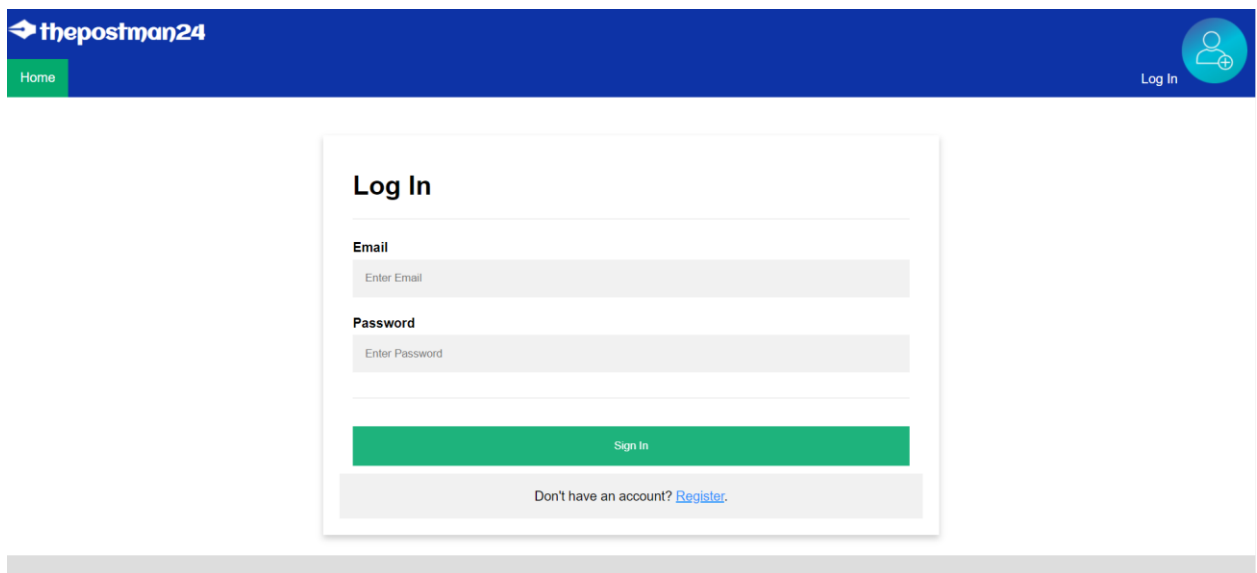
5.4.1 Input



The registration form is titled "Register" and is located on the "thepostman24" website. It features a blue header with the logo and a green "Home" button. The form itself is white with a light gray border. It contains several input fields: "First Name", "Last Name", "Job Title", "Email", and "Password". Each field has a placeholder text "Enter [Field Name]". Below the fields is a green "Register" button. At the bottom of the form, there is a link to "Terms & Privacy" and a link to "Sign in" for users who already have an account.

Figure 5.4.11 Registration form

A new user (employee) must fill-up the form to be able to use the system.



The login form is titled "Log In" and is located on the "thepostman24" website. It features a blue header with the logo and a green "Home" button. The form itself is white with a light gray border. It contains two input fields: "Email" and "Password". Each field has a placeholder text "Enter [Field Name]". Below the fields is a green "Sign In" button. At the bottom of the form, there is a link to "Register" for users who don't have an account. In the top right corner of the header, there is a "Log In" button with a user icon.

Figure 5.4.12 Login Page

A user (employee) will be able to Log In successfully if the Admin approves their registration application.

An admin account is already saved manually in the backend. Directly will be able to log in and access the Admin panel.

Employee List	Attendance
Zawaad Sazid ●	Present <input type="radio"/> Absent <input type="radio"/>

Submit Status

Figure 5.4.13 Attendance

A user will be able to click on “Present” and click on “Ok” to save the record on the database. If the user does not perform any action then the condition will be saved as “Absent” in the database.

Upload File

Choose File No file chosen

Save

Figure 5.4.14 Upload File Page

A user will be able to upload their content news/article through this File upload page. There will be two file formats acceptable: pdf or docx (only one file upload limit at a time).

5.4.2 Output

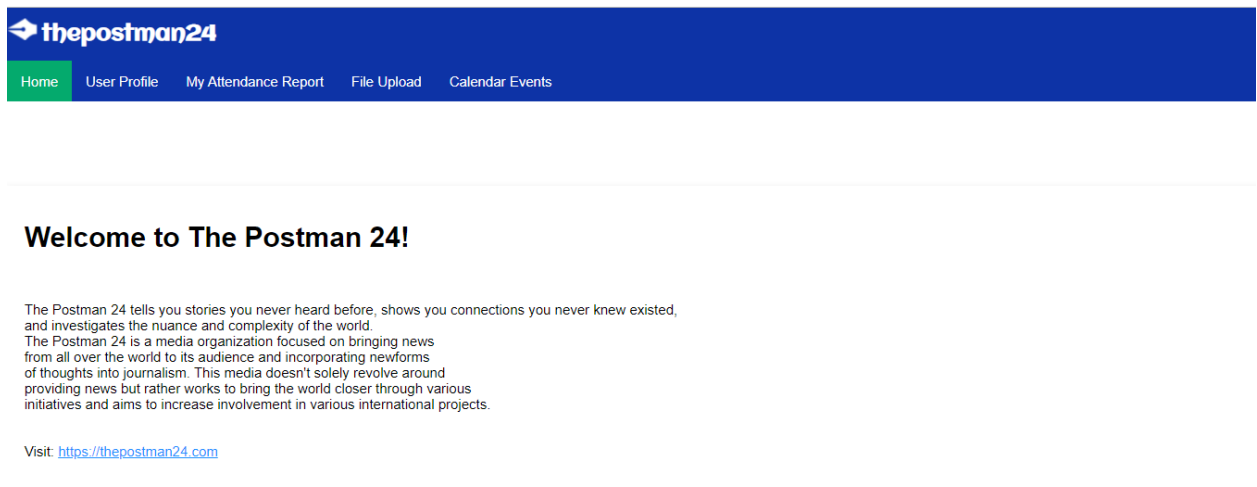


Figure 5.4.16 User Home Page

At first a User will successfully Log In and entered to see this page as the index.php

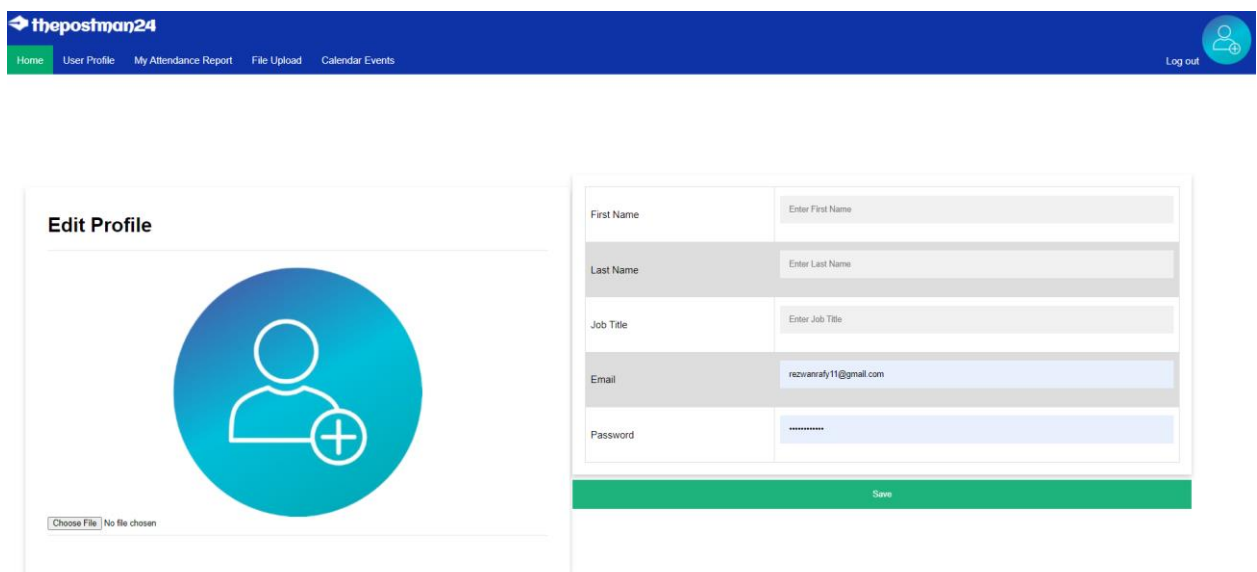


Figure 5.4.17 User Profile

A user will be able to put a profile picture and update profile information if needed and Click on the “Save” button for the information to be updated in the database.

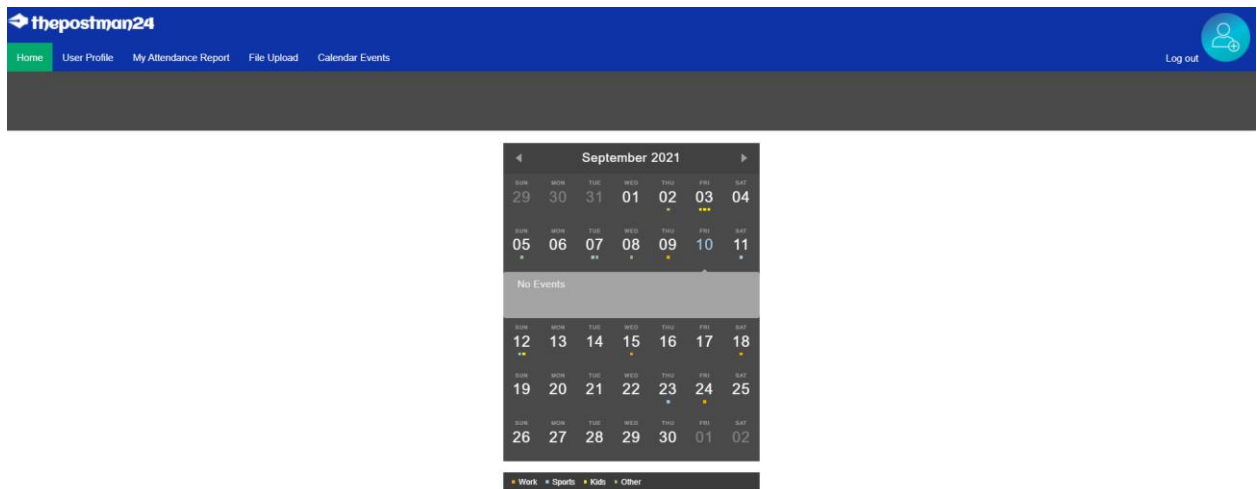


Figure 5.4.18 User Profile

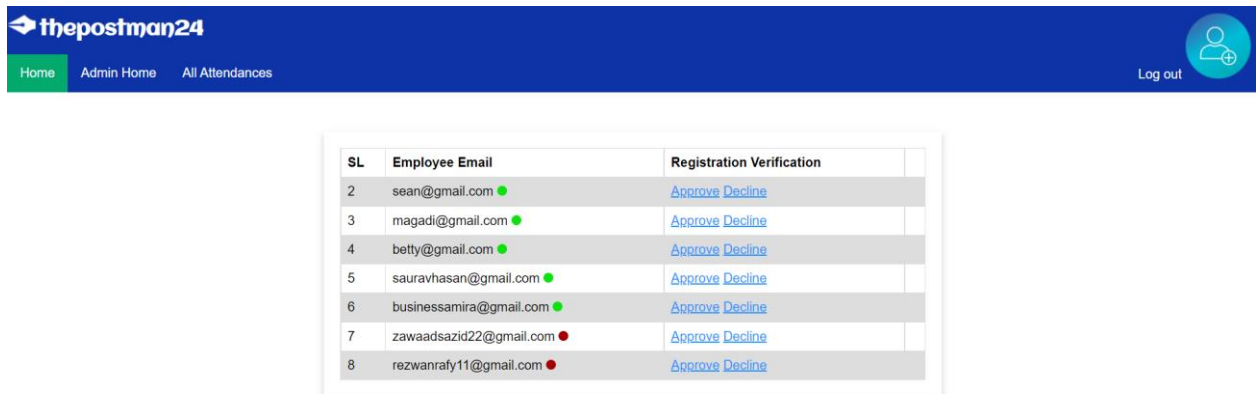
A user will be able to the “Calendar Events” page where there will be updates on the upcoming events of the organization.

Admin will have access to edit and update the changes of the event page.

5.4.3 Architecture

Our new system will be an apache web server website. The architecture is centered overall. In this manner, the system is deployed on a central server while browser data is accessible and collected on many devices in scattered areas. In contrast to the old HR management systems and records system, the new system is custom created for media organizations that have comparable goals. Each employee profile will include data security and privacy [8]. The new system is designed to record every employee who is employed on the system by which the manager/supervisor may track their job, perform actively and communicate with them effectively despite the absence of employees in the same country. Depending on the type of user using the system, every system functionality is accessible over the internet.

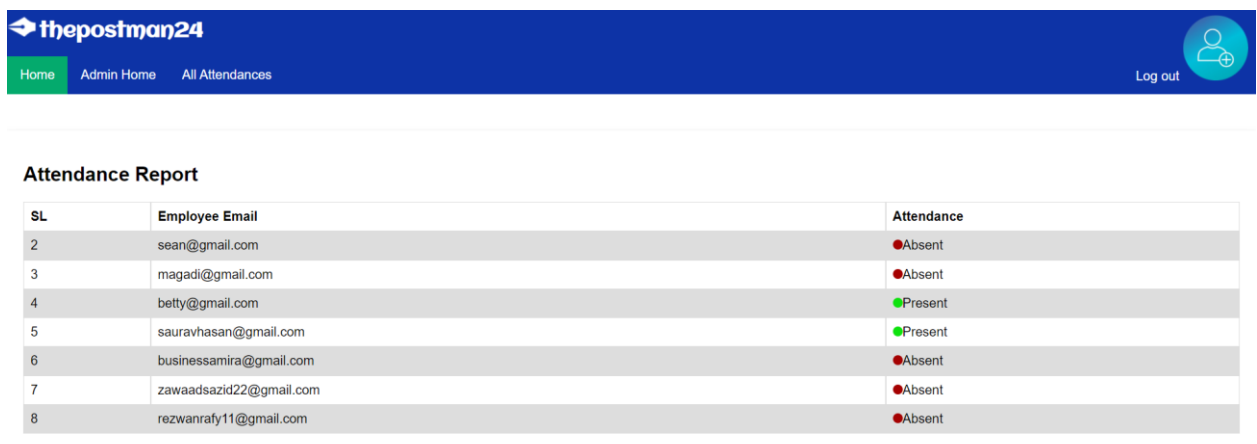
Chapter 6 Results & Analysis



SL	Employee Email	Registration Verification
2	sean@gmail.com	Approve Decline
3	magadi@gmail.com	Approve Decline
4	betty@gmail.com	Approve Decline
5	sauravhasan@gmail.com	Approve Decline
6	businessamira@gmail.com	Approve Decline
7	zawaadsazid22@gmail.com	Approve Decline
8	rezwanrafy11@gmail.com	Approve Decline

Figure: Admin Page

After the Admin Log In then they would receive a list of email addresses that would need to be approved to be logged in to the system. The “green circle” means the option “Accept” is chosen and “red circle” means that they are declining or not been decided to be chosen.



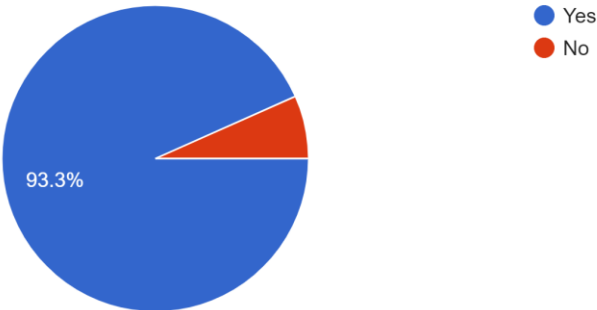
SL	Employee Email	Attendance
2	sean@gmail.com	Present Absent
3	magadi@gmail.com	Present Absent
4	betty@gmail.com	Present Absent
5	sauravhasan@gmail.com	Present Absent
6	businessamira@gmail.com	Present Absent
7	zawaadsazid22@gmail.com	Present Absent
8	rezwanrafy11@gmail.com	Present Absent

Figure: Attendance List

This “All attendances” appears from the Admin site to show the list of employees who are present and who has been Absent. The “green circle” will only show if the user log in to the system and chooses “present” and saves it or else the user will be counted as “Absent”

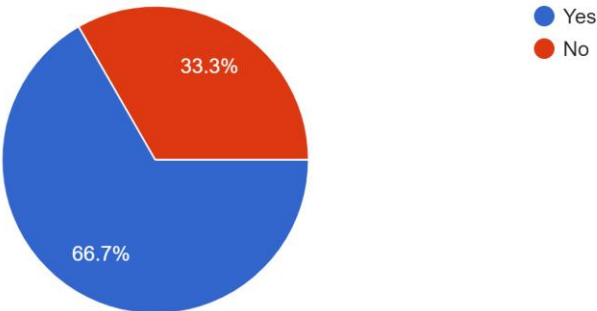
If you get a platform name "The Postman 24 Records" where there are data records for the employee would you like it?

15 responses



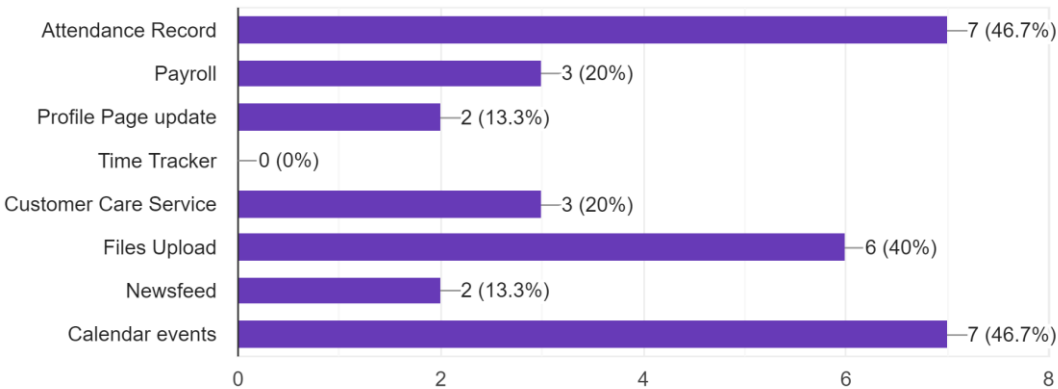
Would you like to have an attendance record system?

15 responses



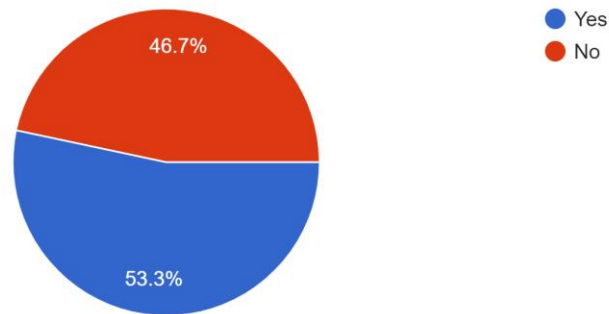
The Postman 24 Records may provide you the following services (among them choose any 2, which you think you will be benefited):

15 responses



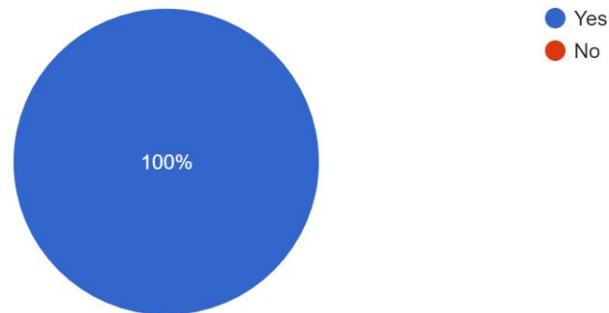
Would you prefer the excel sheet records method?

15 responses



Do you think this system would benefit the performance of an employee?

14 responses



This is a small survey that I have executed to ensure that what my colleagues think about the change of system that I am trying to implement to the company. The results show us that there are still 46% people who might still be comfortable with keeping records on excel sheets and maybe not ready for a new change. Yet the majority is ready to take proper action. However, this also proves that the employees prefer to have Attendance, Calendar View and File Upload features. For which I have constructed a design on that basis but gradually add more options in the future.

Chapter 7 Project as Engineering Problem Analysis

7.1 Sustainability of the Project/Work.

I have faced some obstacles in designing the website during my internship. The following are given:

Adapting to the business environment of new technologies:

New to this field, it was quite difficult for me to comprehend the process for the first few weeks. I had to learn a new language adaptation to develop a website that I found rather tough. This is why my learning curve was initially quite low. Despite this, I think I was able to stay up with my supervisor's correct guidance. I had to adjust my tasks and hustle with the new languages in a proper timetable.

Understanding of the requirements:

Since I was inexperienced in this sector, the requirements were difficult to comprehend. I had to research and grasp my organization's aims in order to gather on what project I might suggest.

7.2 Social and Environmental Effects and Analysis

Each business/organization needs to preserve safe records for its own benefit and utilize these data to estimate the statistics of its current status and to draw up a better plan for the future.

Now, there are databases that can be simply handled to save the data in a safe way but which do not fill in the other unique needs and you will not have the possibility to modify those systems.

This database system is built such that the company has better visualization and high security instead of building up Excel sheets and collecting the scattered data.

7.3 Addressing Ethics and Ethical Issues

Human needs and cultural development are part of the social aspect. In this dimension, there is worry regarding the positive impacts of modern database systems on customers. In the daily operation of organizational goals, consumers demand better health, a green environment and socially responsible communities.

Moreover, corporate social responsibility (CSR) and company ethics cannot be forgotten in day-to-day operations. The concern today is that activities performed by people to meet their demands impair the ability for future resources to be generated. The world's most important organizational ecosystem has good impacts on the society in which it operates, fosters innovation in many sectors, and creates quality jobs. At the same time, online Remote Monitoring Systems (RMS) in companies should grasp the human existence of people.

Chapter 8 Lesson Learned

8.1 Problems Faced During this Period

Taking into account my experience as a student with a major in computer science from academic years, I could learn a lot about theoretical implementation and planning. I didn't have any concept about business life. But when I joined The Postman 24 as an intern, I had a chance to work and deal with real-world concerns and encourage the problem to be resolved. Although this is not an accurate IT firm representation, we require much more information to set up our team's systems and partnership projects. I have insight into the practice. An internship is a terrific chance to make this experience a reality. The Postman 24 is a media company that debuted in 2019 and brought corporate customers together in a short time. Throughout the entire time, I learned a lot I couldn't do in my academic life. I know how to work with the team in the software sector and how to deal with other team members with time limits. The most intriguing aspect I have appreciated and loved to do is to meet customers and meet criteria. I faced a lot of troubles and problems throughout my internship as an intern and as a new employee, and I'm not familiar with it because the region has been completely new to me. Below I have highlighted some of my significant problems:

- The main issue was to be timely in the office
- Secondly, coping with the company's senior members.
- Thirdly, to learn more about corporate norms and regulations
- Fourthly, to understand more about existing projects that have previously been developed and analyzed.
- Fifth, meet new customers and turn their talks, words, and wishes into a recorded demand, and then entrust them to it.

As The Postman 24 is a media organization that has started to get international news, not just in Bangladesh, there are fewer people in Bangladesh. I have managed customers through zoom meetings that can be organized at any time. I still struggle in understanding x bugs; I usually try my best to repair it until I realize it is time-consuming so take aid from my team's developer, but most of the time I was unable to do so as my firm used to create a project with a language not taught during my academic year. Finally, it was a bit concerning to me to be a junior developer as there was a pressure that needed to be properly executed.

8.2 Solution of those Problems

In my academic years, I have indeed been taught theoretical problems and mini-projects. Unfortunately, I had to handle real-world situations that were relatively difficult for me throughout my internship. The projects I finished during my courses were centered on classes, but every project in my office was a significant milestone that had to be done in a small amount. It must be of the highest quality. As I listed just a couple of problems above, I could address those challenges in order to make myself real. In embracing and implementing protocols as punctual in my work submission I have transformed some of them into a resolution in myself,

only then will I be able to handle my regular work on time. Although I was a newbie web developer, I tried to talk more with the company's members to learn and comprehend the burden. I thought coping with them was a really crucial part, as tasks are carried out on schedule without proper communication.

There was an existing project that was developed before I joined. It was difficult for me to comprehend them. Sometimes I seek support from my project manager or team leader who is the company's senior developer. Meeting corporate clients was a major issue because there was a chance of delivering inaccurate information but in due course, I improve the methods for correct and correct execution in the meetings.

But Laravel was a new language for me, but throughout my internship, I couldn't find out more, but YouTube helped me a lot. Besides all the issues that were resolved afterward, I believe I had a wonderful internship at The Postman 24.

Chapter 9 Future Work & Conclusion

9.1 Future Works

The project is still being developed and more updates will be added every day. As a discussion by the organization, there are more features on this website. One of the above requirements is to connect a good cloud computing after the first milestone, which also ensures safe and secure data. We will then add the AI Data Analysis tool to provide a correct report and to show statistics on the costs or the level of our management system.

9.2 Conclusion

This was a very successful internship for me. I've acquired new knowledge, know-how and met so many new people. I got to work and have professional practice in my field. An internship is a great opportunity to achieve this experience. The internship was good to explain my strengths and weaknesses. This helped me determine what skills and knowledge I must improve in the next time. I learned JavaScript, Bootstrap, Laravel, etc, during my internship. Now I understand how a website could be made. As has, I have worked in The Postman 24 with a developer team.

Now I know how to work with the team in a software company and how to communicate in conjunction with other staff members in the project. The most interesting part I liked to do was talking to clients and successfully meeting their requirements.

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