

Abstract

It is a web-based platform and also a framework which is very useful to education sector to manage the time. Firstly, all Teacher must register using the registration form which is possible by only the admin. Then registered Teacher can log in with their email id and password to authenticate. When the Teacher log into the system, they can access their classes routine, exam routine, information of Teacher . Having any problems with the schedule , the project have a chat feature through which Teacher can communicate with supervisor about it personally. Notification features is also provided to the Teacher side which notify the Teacher if any change is done in the system. In the same way, the supervisor must log in through its id and password. supervisor have the crud features in the system. Adding, updating, deleting such facilities is provided to the admin. So, this project is totally handle by supervisor who have the authentication such like register new Teacher to the website as Teacher and providing id and password to the Teacher s. Until and unless supervisor register the Teacher in the system, all Teacher won't able to access into the system.

Acknowledgement

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List of Abbreviations

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Abbreviations	Full Form
AJAX	Asynchronous JavaScript And Xml
CRUD	Create Read Update Delete
CSS	Cascading Style Sheets
DBMS	Database Management System
DFD	Data Flow Diagram
ER DIAGRAM	Entity Relation Diagram
HTML	Hyper Text Markup Language
JS	JavaScript
PHP	Hypertext Preprocessor
SQL	Structured Query Language
TU	Tribhuvan University
UI	Teacher Interface
XAMPP	Cross-platform Apache MySQL PHP and Perl

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Chapter 1: Introduction

1.1. Introduction

Time management system is the system which use the time more effectively, so that the activity can be done on right times, project tasks can be completed and progress can be achieved. In other words, it can be said as the planning or organizing to divide the time for the specific activities in systematic manner.

Talking about time management, day to day life every people have their own schedule of time. From Waking up from bed and back to the bed. It shows every people are waking with the flow of time which can be said as understanding the power of time and utilizing or analyzing it. Walking with time by understanding it leads the people towards progress, development, goals, and their dreams. So, people started managing the time by planning, scheduling, and implementing it to complete the specific tasks on abbreviated period which save their times.

As it comes about organization or companies (numbers of employees) time management system are must need to divides the time as per employee's tasks are separated. So, time management system is done in every field whether it is in education sector or in business sector because by managing the time, it will make you to complete the tasks in abbreviated period of time and for that the planning, scheduling, monitoring, and controlling of all project activities are required. That's why time management system is required in every field to complete the tasks and to achieve progress in systematic ways.

So, I have chosen time management system based on college. Managing the system of the college according to the real time base which may be date, day, months, hours, minutes, and seconds, etc. According to the college, one person is need to manage time who is supervisor and the people to following the time as managed, who are Teacher . supervisor is the person who play the role of managing the time and to run college in systematic way. Teacher are those peoples who will be under the supervisor and work as per the system. So, this will show one to many relations between supervisor and Teacher .

Time manage system is done whether in document paper form to keeps records of Teacher personal detail like name, address, email, phone numbers, course, subject and according to the informal the planning, scheduling, and meeting to discuss about how to achieve the goals in the right time. But as it is done in paper form current changes takes time. If Time management system is not managed in the college it might create some issues to the Teacher and admin. They are like:

- Cannot complete the tasks/course on time
- Creates confuse between Teacher about course time
- Creates non-systematic/non-seriousness
- Creates wrong decision
- Cannot create good relationship between supervisor and Teacher
- Update in the time management may not know by every Teacher

So, online time managing technology is created to overcome all the paper form problems. It reduces wastage of time and bundle of paper. Information can be achieved from anywhere without being inside the organization. Only they have to login in the website with their id and password as given by the admin. Teacher can see the schedules. Sometimes the supervisor can update in routine which Teacher might not know. So, it automatically sends notifications to the Teacher. And if they have any problems with changes their can simple message personally to the supervisor about it.

So, supervisor will keep the records of college information like planning, attendance of Teacher, course time, routine, meeting, and personal information of Teacher. This helps the supervisor to monitoring and to systematic in college.

Scheduling Time

To separates the time for the course according to the Teacher, supervisor need to analysis whether Teacher can give time or not for the course. Course is required to finish in the given period. It will deal with the course id, course name and course type as separated for the Teacher.

Class Routine

To create Class Routine for the Teacher , supervisor need to separate the tasks along with its time , subject, date and Teacher . It helps Teacher to work as per schedule and make them to complete their tasks on time. It creates sequences in working with the flow of time and systematic manners in the college.

Exam Routine

To create Exam Routine for the students, supervisor required the time table, subject along with code and location where exam will be held. It helps Teacher as to be ready for exam as invigilator.

Teacher Records

Keeping the records of the Teacher with their details which will make much easier to know the Teacher information and theirs roles in the college.

1.2. Problem Statement

In education sector, some problems may occur like; change is done in the time schedule or in routine might not know by the Teacher . Sometimes Teacher might not be able to take class due to their personal reasons like sick, accident, being late. Sometimes Teacher may have taken class and have not presented in the attendance which might create misunderstanding/conflict between Teacher and admin.

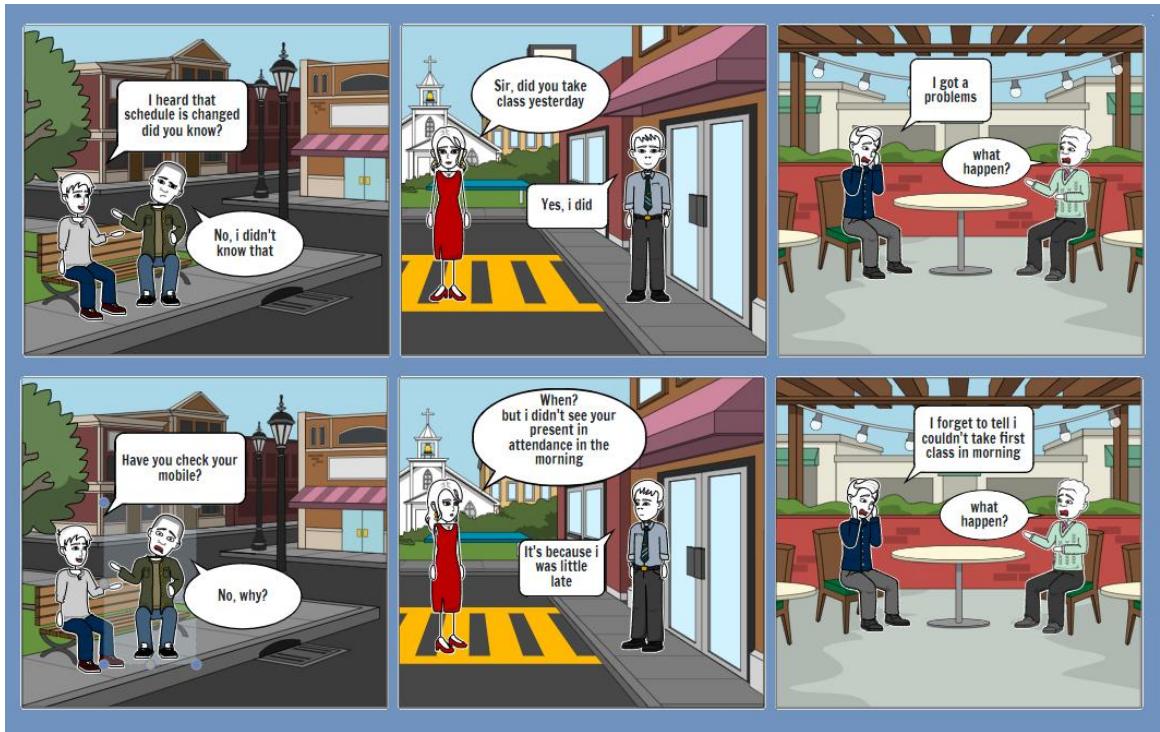


Figure 1: Chapter 1.2 Problems Statement

Solution

As we have problems that might create non-systematic in education sector and might not leads towards goals. So, I have some solutions which might create systematic and helps to achieve goals use technologies. Even changes are done in schedule or routine by the admin. It will automatic sent notification about the updates to the Teacher individually but they have to login in websites with their Id and passwords. Id card will be provided to the Teacher as they register their name with their email id and password in the websites. Once register is done, Teacher will have to use their ID card to keep record of attendance. If Teacher cannot take class due to some reasons, he/she can personally message to the supervisor about the problems and supervisor will manage the schedule.



Figure 2: Chapter 1.2 Problems Statement_Solution

1.3. Objectives

The Main objective of project on College Based Time Management System(Routine) is to creates systematic in uses of time.

- To complete the tasks/course on time
- To creates understanding about course time
- To creates systematic and seriousness
- To creates right decision, planning and achieve progress
- To creates good relationship between supervisor and Teacher
- To update in the schedule known by every Teacher

Academic Objectives

- To use the academic skills and knowledge to manage the time
- To have knowledge of Teacher performances, activities, and behavior
- To have knowledge of managing the time (Routine) online
- To build good relationship with Teacher and admin
- To saves the time and providing notifications along with chat features

Personal Objectives

- To complete the project on dead line (as challenge)
- To have real life experiences on this project
- To create theoretical project (as studied) into Practical project
- To compete with related project in the market after graduation

Technical Objectives

- To have knowledge of websites using different languages like JavaScript, html, SQL
- To design the project along with flexibility so, it can update in the future
- To make adaptability on any devices like android phone, tablets, laptop and, etc.
- To make the system more secures with login features

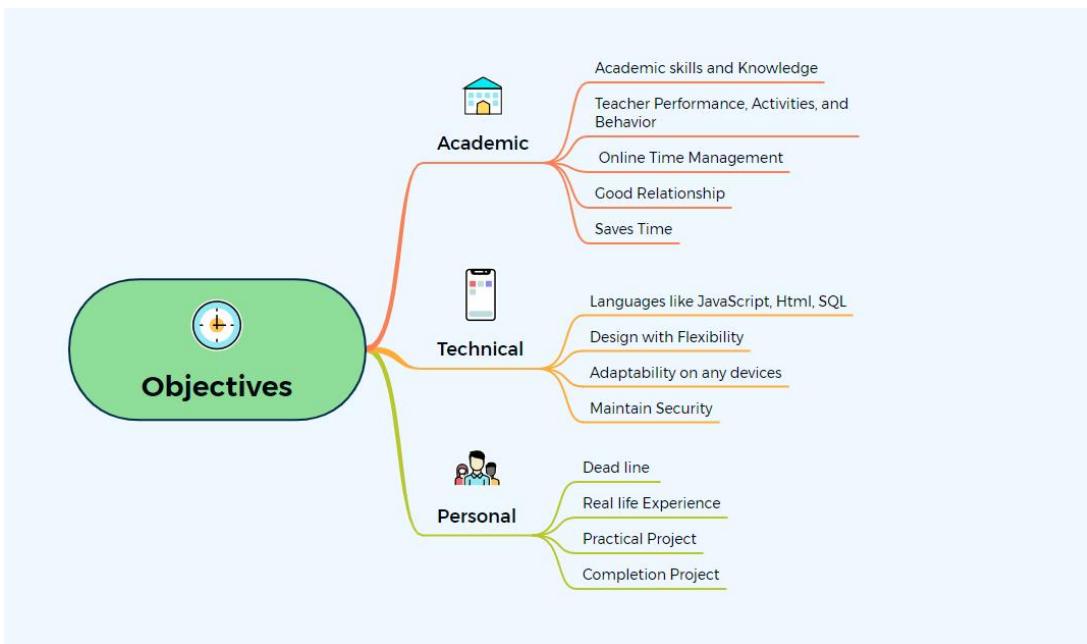


Figure 3: Chapter 1.3 Objectives

1.4. Scope and Limitation

The scope of time management project is that both supervisor and Teacher can use it as supervisor and Teacher respectively. They have to login to register. Once they login, they can access it from anywhere. It creates good relationship between them. It automatically saves the information of the Teacher performance (determines the progress of the Teacher). It has the features of communication and notification which will help the Teacher to be updated with the schedule. It is quite easy to use and does not require well skilled. Talking about field, it is also used in business, educational, hospital, industrial and office sector which helps to achieve their goals.

The limitation of time management project is that both supervisor and Teacher have to be online otherwise they can't use it. Teacher cannot login or use the website until and unless supervisor register their name as a Teacher. supervisor only have the authority to update in the websites.

1.5. Report Organization

The font for the report is numbered in times new roman from page number 1. The page number should be inserted at the bottom, aligned is in center. The margin of paper must be set as Top = 1, Bottom = 1, Right = 1, Left =1.25. The paper size corresponds to A4. All paragraphs must be justified and have a spacing of 1.5 and the content of the document should be in Times New Roman Font. The font size for the heading is 16 where section heading, sub-section heading and paragraph have 14, 12 and 12 respectively. All the headings are bold faced. The position of figures and tables should be aligned center. The figure caption should be centered below the figure and table captions should be centered above the table. All the captions should be of bold face with 12 font size.

There's Five chapters which have different steps of developing the main projects(Time management). We have introduction with background related to time management along with it's problem statements, objective, scope and limitation and report organization in chapter 1. where as in chapter 2, we have background study and literature review of the project. Similarly in chapter 3, We have system analysis and Architectural Design. In System analysis, it includes requirement analysis, feasibility analysis, Data modeling (ER-DIAGRAM) and Process modeling. Where requirements analysis includes functional requirements and non-functional requirements. in Feasibility analysis, it includes Technical, operational economic and schedule. And Architectural Design includes Database Schema design, interface design and physical DFD. In chapter 4, We have implementation and Testing. Where implementation includes Tools used and Implementation details of modules. And Testing which includes unit testing and system testing. As chapter 5 is the final chapter which consist of lesson learn(outcome), conclusion and future recommendations of the project.

Chapter 2: Background Study and Literature Review

2.1. Background Study

The time can be simply defined as the duration between any two events. The process of planning and organizing the time with different activities is called time management. Time management is one of the most important infrastructure for the day to day achievement in various fields of human life. One can perform various works without wasting the time. The time management makes the person smart and organized as well. The way to manage the time and the activity that are kept in priority are different in different ages of human life.

The time and time management as we know it is very important for the human beings to live a happy life. Every people have their own ways of living life, even in business, office, college, school and industry fields they also have their own time tracking scheduling. From centuries to centuries, many revolution of time along with daily activities has occurs which was because of the human curious nature. There are many devices that does not only tells the accurate time but also keep the records of many things. For examples smart watch, mobile, computer, etc and many software like Ms-Excel, etc which helps to measure and shows the accuracy records with time. Such like heart beat, miles of walking, daily activities, money banking online, distances, tracking time, locations, alarm, showing deadline, sent notification, etc.

As talking about the history of time formation devices, there were many time devices were invented to measure the accurate length of time and as well as methods of keeping the way of time management records. As we know that the ancient peoples' daily life began with the sunlight and ends with the sunset. Since there were no further development in the technology, people in the ancient time were not able to fully use the 24 hours' time period and utilize the time more accurately.

Around 4000 BC, In Paleolithic Period, the cave man just follows the sun and wind as per day to day life as it was their time. As sun rises, the cave man goes for the hunting and return back to the cave when sun sets. And they used write a symbols structure in the wall which is known as cuneiform writing. Cuneiform writing which shows the days past as

counting the numbers of day they survive and birthplace as record keeping. Cuneiform writing was only understood by their own people. It was their time schedule of living a life. [6]

Around 2000 BC, the Egyptians started tracing the sun's movement as to measure the time using the device which was named as sundials. It generally work on the bases of the sunlight. The nail was attached with the woods along with some mark of number when sun's light touch it and form shadow. The shadow indicates the number mention in the woods as time. As it dependent only upon sunlight, their time was divided into 12 hours. [2] The sundials was used as for the day to day activities for agriculture and was used to set the standard for providing the wages to the employees. Their way of keeping the records in the stone form which was known as Code of Hummurabi. Code of Hummurabi is the oldest written law which included punishment, social class and gender, minimum wage for workers,etc. [1]

The candle clock and the sand glass device was invented by the Ancient Chinese which was quite famous and used in Europe, India, and Persia. These devices use their some substance which helps to measure the time. In Sand glass, sand was used inside the glass containers which is transparent. The sand falls downward slowly and measure the length of time. Where in water clock and candles, the water is drop in a containers with the wheel attachment and wax was burnt with mark of the length of time in the height of candles respectively which were used to shape the time at that time. Sand glass was generally used for cooking, as like for 1- 5 minutes and it was reusable. [3]

In the 17th century, the Pendulum clock was invented by Christiaan Huygens which was used as the originator of timekeeping devices. the pendulum clock was the world's most precise timekeeper and accounting for its widespread use. pendulum clocks was used as primary time standard in homes, factories, offices, and railroad stations for scheduling work shifts, daily life, and public transportation. In somehow it was accuracy for the industrial revolution even it was not in present day. [3]

In 18th century, (time tracking) Pen and papers system were invented as to keep the record as worked time payment between employee and employer. Benjamin Franklin introduce the time as "time is money" because of the workforce started to shift from

independent work to an employee-employer business model. That time, the effective time management was increasing and employers wanted to make sure about only that they have paid for the time worked by employees. But there was one problems also generated that employees also wanted to keep the record of received the payment for their worked time. So for the time tracking methods, pen and papers recording system were used to solve the bookkeeping errors. It brought a system which was time consuming, relied heavily on truthful and accurate recording. The system like autobiography of Benjamin Franklin and Letts diary (John Letts) was first commercial diary which was used to keep the track of stock movements. It helped merchants increase efficiency day to day. It was wild popular at that the time as it keep the record of merchants and traders. [5]

As leaders and enlightened thought, slowly the society began to have sign of maturity and symbolized the child is grownup after wearing of a watch in hand. In 18th century, the schools started to organized the hours and lessons course according to the clock, created punishment system of being late and awarded as for being punctuality. As the time evolution is change and past on from centuries to centuries, the people started do theirs activities with the flow of time from waking up to and back to the bed and their ways of lives changing as systemic.

In 19th century, Frederick Winslow Taylor published The Principles of Scientific Management which shows the management of the analysis and synthesis of workflows. It started to increase productivity in manufacturing, focused on the efficiency of individual workers, quickly spread to the office, and eventually encompassed the home environment as well. [4]

In 20th century, people are starting being systematic along with time and started manage everything whether it's business, industries, academic sector, etc in paper form. In offices,business, academic,etc mainly they used have many important files, tasks to complete, employees,etc were required a scheduling of time as per to works. What to do? And how to do? Generally, everyone had the watch to know the time but due to the only humans and papers form recorded documents started to create problems. Some of the problems faced were like hard to find the files at current time, chunks of files are being full of dusts, consuming the huge space, consuming a lots of time, having stress, etc. The

planning, ideal, objectives, goal, scheduling and meeting every was done in paper recorded form.

Slowly electronic devices were invented like computer, android phone, tablets, smart watch which helps to track time more accurately then previous ancient clock. As the uses of computer technology were increased, many companies, schools, offices ditched paper time sheets for digital ones. Many programs started developed for the time tracking like Ms-Excel and tracking the employee's time usage. As punching in or out were used in the past, now the employees have to swipe a card or enter identification no or finger print. In digital devices have the records of the employees which save times and it auto generated the attendance and the performance activities reports of the employees.

Even it can keep the records of many thing like chunks of important documents file in a single memory, reminder alarm set, auto detect weather, auto detect temperature and automatic machines like ATM machines, etc.

Due to fast improvement in the computer field, various programs and software's were developed which helped to manage the time for various works. The features of Alarming devices to wake up early helped to start the days as scheduled. Nowadays, even the electronic devices remind the daily routine if forgotten. People are starting being more familiar with the technology and being systematic along with time and started manage everything whether it's business, industries, academic sector, banking etc in digital form. As the network were introduces every people are using it. Nowadays, many programs, software are made for the time tracking and time managing for the various fields.

Slowly time management become online as more use of technologies like android phone, laptop and tablets which make along security. Where chunks of file of documents could just save in a single devices and in software form. As it's online form it can be operate from any where. So, I have choose the time management system base on college.

2.2. Literature Review

There are a lot of online time management system program used in the world. Even in internet there are many program such as setmore, appointy, Clickup, Timecamp and TopTracker etc. In organization or education sector, they need program to design the time table of planning, scheduling, sets a goal, saving time, keeps the records of tasks, manage the employees, creates systematic and tracking time. software are available in internet, its is available in as trial version and direct download type. The Teacher have chance to test the software as trial version which is generally for 7 days only. Once the Teacher s is satisfy with the software as required for the organization. They can download with certain charge per month and can use it for time managing purpose. I have elaborate the five cases below

Case study 1

It is school Scheduling software that allows parents, students and staff to book their time online. It is portable in any electronic devices like desktop, tablet and mobile. It assist to make a simple 24/7 self-booking, build up attendance, set up return appointments, social media entrance, offer practical video classes,etc. It provide online scheduling platform which will connect to the customers. Manage all your appointments through one simple, sleek calendar system and give your business the freedom to grow. Creating your free, personalized Booking Page makes it straightforward to reach more customers. When you list your availability online, your audience can self-schedule and pay for services 24/7. Focus on providing meaningful and memorable experiences, while your app handles routine admin. Customers stay in the loop with automated email or text reminders, and staff receive instant booking updates across desktop, tablet, iOS and Android devices. Bring on more customers and sharpen your brand image, while taking charge of your work hours. Championed by teams of all sizes, Setmore's external APIs have been utilized by enterprise operations to build custom solutions. A HIPAA-compliant version is also available with additional data security features. Integrations with leading business apps including Zoom, Square, Google Calendar, Facebook, Instagram, Zapier are the cherry on top. Discover everything you need to boost your bookings and reach a wider audience with your skills. [7]

Case study 2

And similarly, appointy is education scheduling software to reduce supervisor work, increase efficiency, and deliver better results. Its have education scheduling tool fit for all types of educators and academic institutions like school, college, Teacher and professors, libraries, tutors, student services, test centers and educational events.

Appointy is a powerful, all-in-one online scheduling solution built to help Teacher s drive business growth. It has a Teacher interface that is functional yet simple enough for newbies to learn how to operate the system in a breeze. Among its notable features worth talking about is its social media promotion features and the capability to manage several different employees and locations without breaking a sweat. Businesses can also implement customer loyalty programs, which is helpful in acquiring their customer's loyalty and encourage them to make a repeat transaction with your business. You can do this by having a better understanding of your customer's needs and requirements and personalizing activities. This platform does not only benefit your business and staff. It also offers perks to your customers. It lets them self-schedule at the most convenient time for them. This platform is recognized by some of the business giants including the New York Times and Google, which shows its definitely worth an investment. [8]

Case study 3

ClickUp is a cloud-based collaboration and project management tool suitable for businesses of all sizes and industries. Features include communication and collaboration tools, task assignments and statuses, alerts and a task toolbar. Teacher s can assign comments and tasks to specific team members or groups of team members. Comments and tasks can be marked as resolved or in progress, or Teacher s can create custom statuses. Projects can be viewed from an Agile dashboard or organized by assignee. The activity stream displays tasks as they're created and completed in real time. Teacher s can configure notifications to be sent only for specific items. The mentions feature alerts Teacher s when another team member names them in a discussion, and comments can be edited after posting. Integrations include Slack and GitHub. Support is offered over the phone and via email. Pricing is per month. [9]

Case study 4

The impact of time management on the student's Academic Achiments Shazia Narsullah, Muhammad Saqib Khan has explored in this study that the relationship

between academic achievement and the management skills of the students. Time management skill are very important to develop overall performance and the achievement for the students. This all are related that the individual can manage their time which suits best for their living. And follow steadily with their routine. Good surrounding and conductive setting can lead to the positive outcome of the students. One of the good aspect of the student is time management of the student. For shining good time management plays vital role. But some student of higher education institution may be different so that it is giving bad impact on their academic career. Student time management can be stress-full as they have lots of task and personal achievement. For this need data is collected from the Qurtaba University of Science and Technology's students to analyze how effectively they are managing their time for achieving their academic standards. [10]

Case study 5

Automated Time Manager Bogoan Kim, Seok-Won Lee, Hawajung Hong, Kyungsik Han has explored that self-regulation strategy on time management leveraged by the cellphone capabilities. By the help of theoretical framework of self-regulation that consist of four elements. They are:

- goal setting
- task strategy
- self-monitoring and reflection and self efficacy and intrinsic motivation.

We put in the consideration goals and strategy adopted during college life by surveying 295 students and find that time management as a fundamental element for achieving such goals and strategies. For improvement of student time management they develop smart phone application Automated Time Manager(ATM) designed to provide Teacher s with visualization of their physical activities and phone usage reports. Also to acquire smartphone Teacher experience and usage data. After the study of 46 college student they find three primary Teacher experience – awareness of unawareness, preferred feedback, contextual but oblivious use- and an overall positive time management outcome with ATM . We present an empirical study that transform self regulation as well as known approach in social sciences into computing. Discussing the silent design implication for supporting time management in more effective manner with a smartphone application. [11]

Chapter 3: System Analysis and Design

Waterfall methodology is used in this project. They are four phases in this project. They are System analysis, system Design, Implementation and Testing which is shown in the figure below.

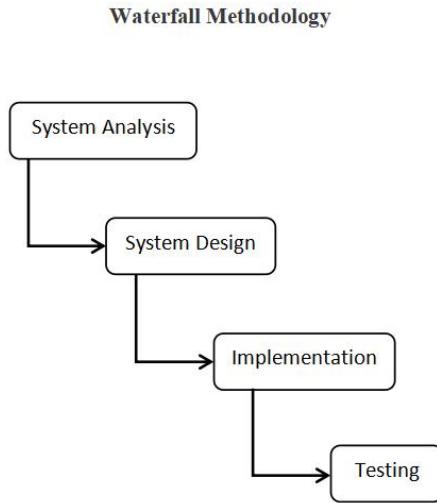


Figure 4: Chapter 3 Waterfall Methodology

First phase of waterfall methodology is System analysis which contains four types i.e, requirement analysis, feasibility analysis, data modeling, process modeling. Requirement analysis has further divided into two part. They are functional and non functional requirement. Feasibility analysis also divided into four part. They are technical, operational, economic and schedule. Second phase is system design which have four design part which shows the project function in the form of figure. They are architectural design, database schema design, Interface design and physical DFD. Third phase is implementation which show the tools that are used in the time of developing the project. It have two part that is tools used and implementation details of modules. Forth phase is testing which is done to check whether the project is working properly as per requirement or not. It also have two parts that is unit testing and system testing.

3.1. System Analysis

3.1.1. Requirement Analysis

i. Functional Requirements

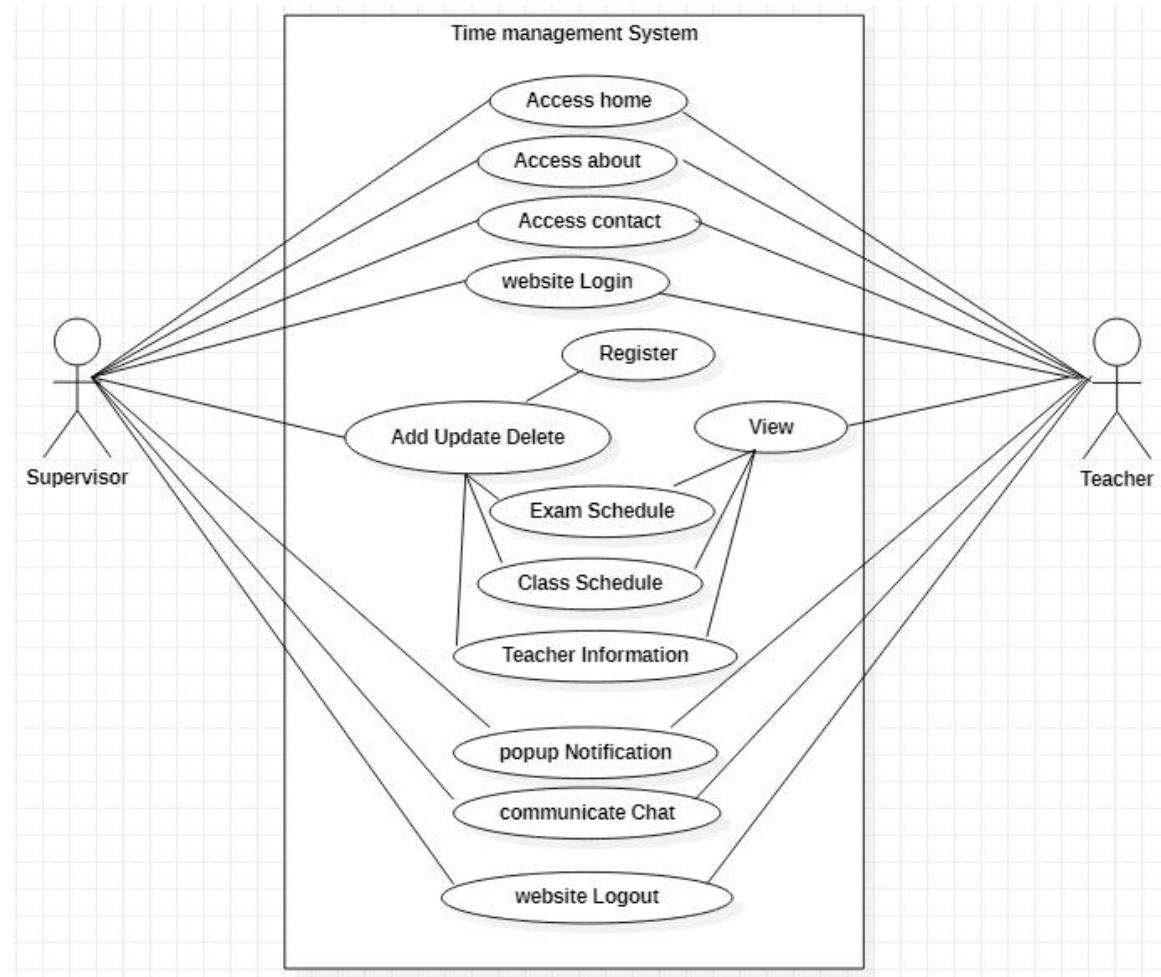


Figure 5: Chapter 3.1.1 Use case

As above Use Case Diagram show the roles of the two persons as an supervisor and Teacher s. supervisor have the authorities to manipulate in the system where Teacher s have only few authority. There are many features like notification, chats, updating, deleting, login, logout system, registration, records of Teacher , class routine, exam routines and can access the system online. These are mostly required to complete the system. Both supervisor and Teacher s can access the front view of the system before login such like home, about, contact and login sites.

- i. supervisor can add or delete the Teacher s from the system as members by their email id along with password.
- ii. When supervisor registered the Teacher s name as member, Teacher have to use their email id and password to login in the system.
- iii. Whenever supervisor alter in the system, the notifications would be automatically sent to the Teacher s if they are added to the system.
- iv. Whenever the Teacher s have any problems regards update, they would have chat feature to communicate with supervisor about it.
- v. Once the supervisor or Teacher s would be the members, they would have access ability (login) from anywhere but it would requires net.
- vi. If the supervisor and Teacher would like to leave the system from the connect device they would simply need to logout.

ii. Non Functional Requirements

i. Hidden Password

This features makes the system more secure for the supervisor and Teacher s. Through this system the both supervisor and Teacher can hide their password in the time of login and registration.

ii. Encrypted password

This features also makes the system more secure by encrypting the password in the form of number and alphabets. Through this system the password are hide their password in the time of login and registration.

This project password are encrypted in the database.

iii. Time responsive

It is deals with the time response while opening the websites.

3.1.2. Feasibility Analysis

i. Technical

As a technical feasibility, the system is easy to use by every people without having the problems of misunderstanding. It doesn't required extra or additional knowledge to use it. Its so simple to use and Teacher -friendly. Once you use it, you will have ideal and can easily creates class routine, schedule, exam routine.

ii. Operational

As a operational feasibility, Once system is operated through login into it , the supervisor can fully have authorities or ready to used the program. supervisor can add and delete the person along with their id, name, address, email, phone number, etc. supervisor can changes in schedule, routine, class, etc. Once changes is done the message will goes to the those person who are added in the system. Even they can message through this system with each others.

iii. Economic

As an economic feasibility, after the complete of system, it will not cost for system. but as to connect to the net and to use world widely . It will cost to active the system and needed Domain to host the system as to access online. Once it run in the electronic devices which access internet. it can be used in both android and laptop, etc.

iv. Schedule

Through this, timeline is develop for the project. It makes quite easier to see the tasks along with time required and how long should be taken to complete it. It also shows the who should be working on it and what order work should be done in. The following Gantt Chart shows the timeline and completion of project along with the starting and ending dates of the project.

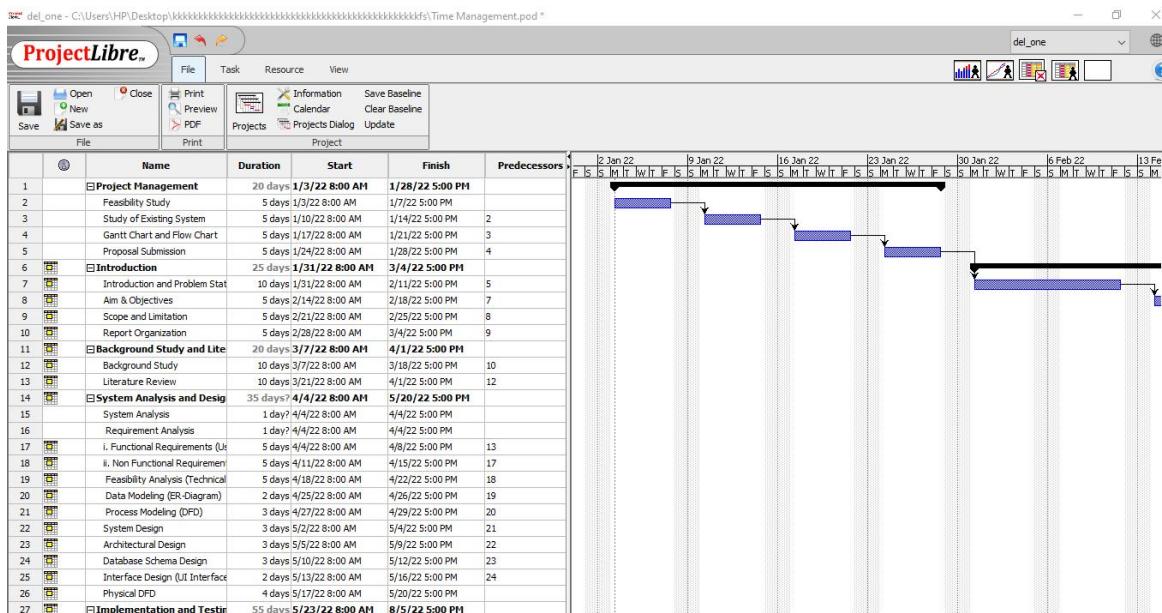


Figure 6: Chapter 3.1.2 Schedule_Gantt chart 1

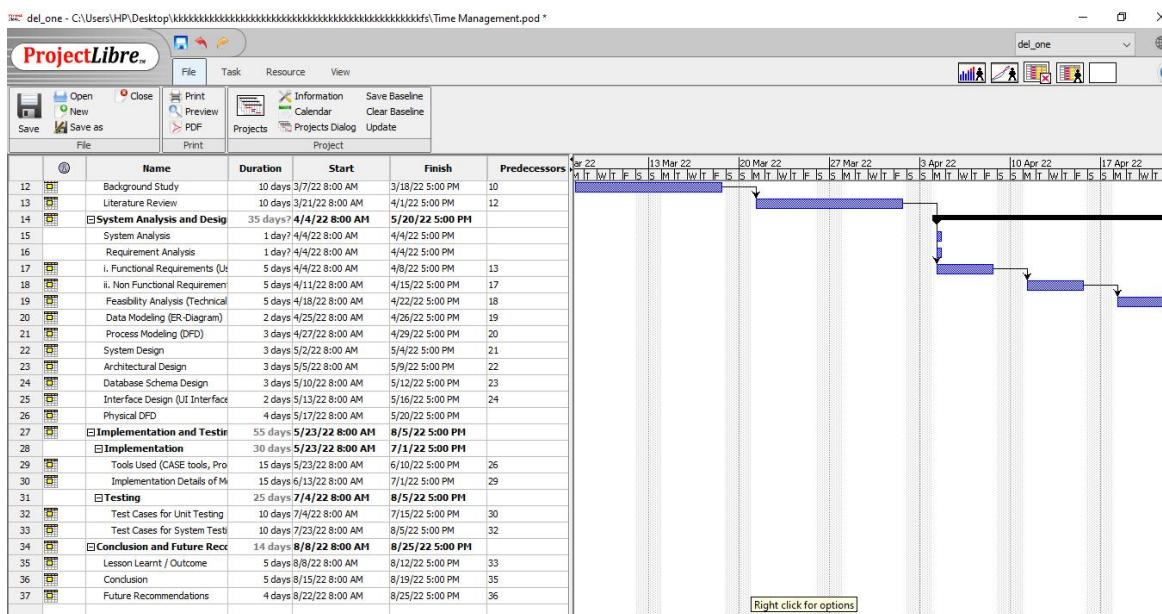


Figure 7: Chapter 3.1.2 Schedule_Gantt chart 2

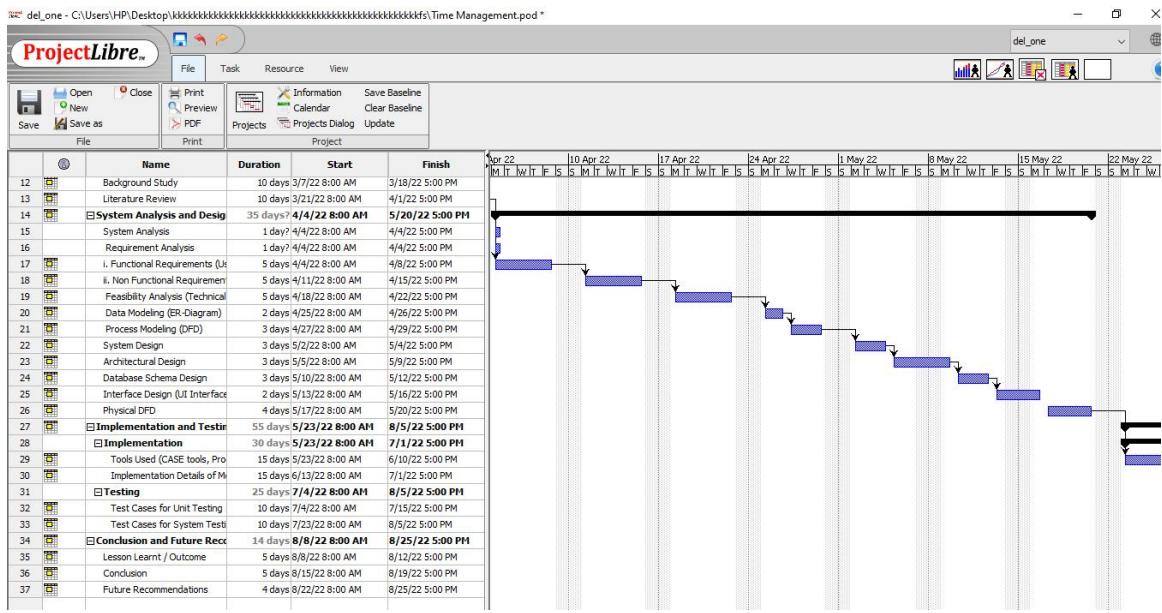


Figure 8: Chapter 3.1.2 Schedule_Gantt chart 3

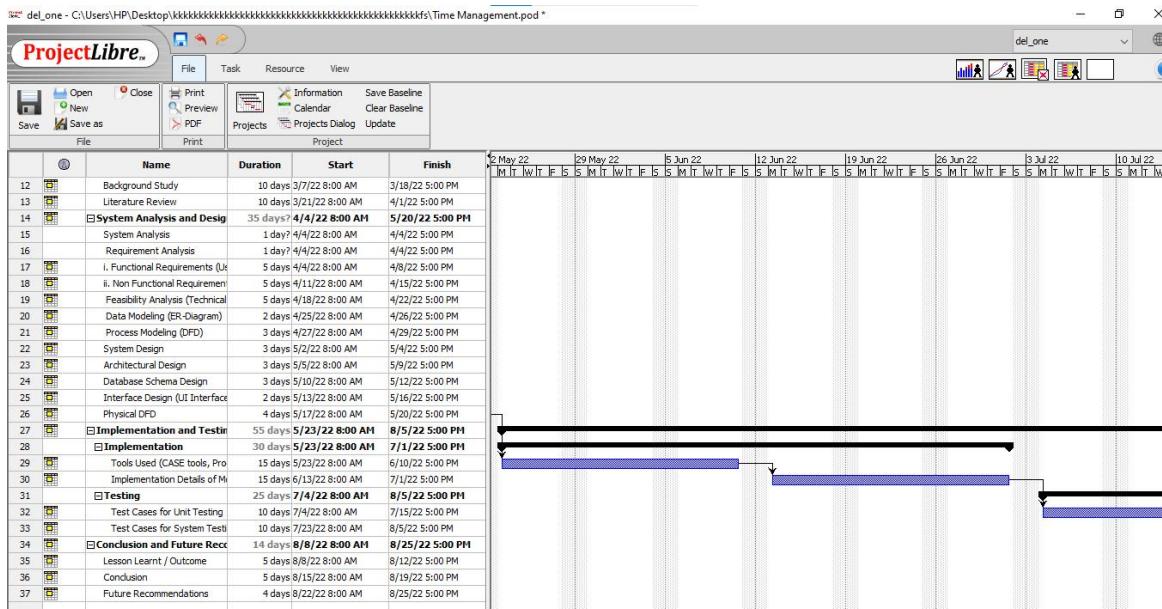


Figure 9: Chapter 3.1.2 Schedule_Gantt chart 4

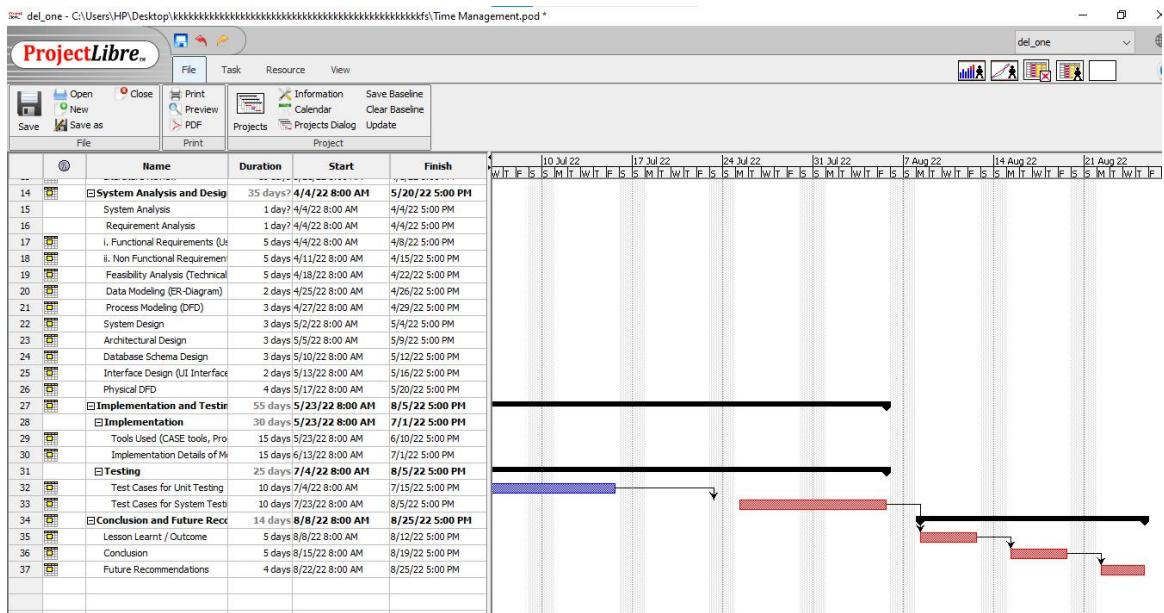


Figure 10: Chapter 3.1.2 Schedule_Gantt chart 5

3.1.3. Data Modeling (ER-Diagram)

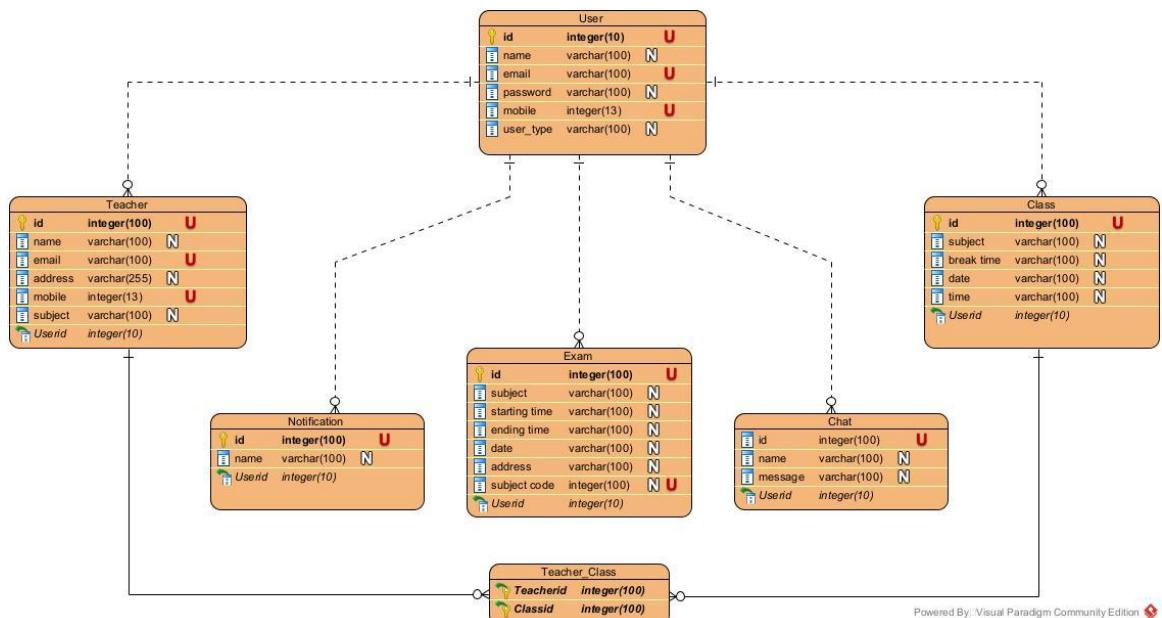


Figure 11: Chapter 3.1.3 E-R Diagram

Above E-R Diagram show the one to many and many to many relationship between the different entity table in the system. There are six entities which includes Teacher s, Teacher , Class, Exam, Course, Notification and Chat. Even we have six entity in the E-R diagram, all are required to complete the system. Teacher s entity contains six attributes

i.e id, name, email, password, mobile and Teacher s_type. This Teacher s entity separate the Teacher as register in the system with Teacher_type whether Teacher is supervisor or Teacher s. Teacher entity have four attributes that includes the id, name, email, address, mobile, subject of the Teacher . Class entity have six attributes that are id, subject, break time, date, time of the class period. Exam entity has seven attributes that are id, subject, starting time, ending time, date, address and subject code which shows the exam routine. Chat entity have three attributes that are id, name and message of the chat feature which holds the data in it. Similarly, notification have two entity that are id and name which helps to notify the Teacher s as notification.

3.1.4. Process Modeling (DFD)

It represent the system of different levels of abstraction. It have 3 levels. Started from level 0 to level 2. level 0 represent the system as a single process with its relationship to external entities. It shows entire system as a single bubble with inputs and outputs data indicated by arrows. level 1 represent the main functions of the system and breakdown the high-level of level 0 into sub process. Level 2 represent the one step deeper into parts of level 1 with functional and database storage. The following figures shows the level 0, level 1 and level 2 of DFD. [30]

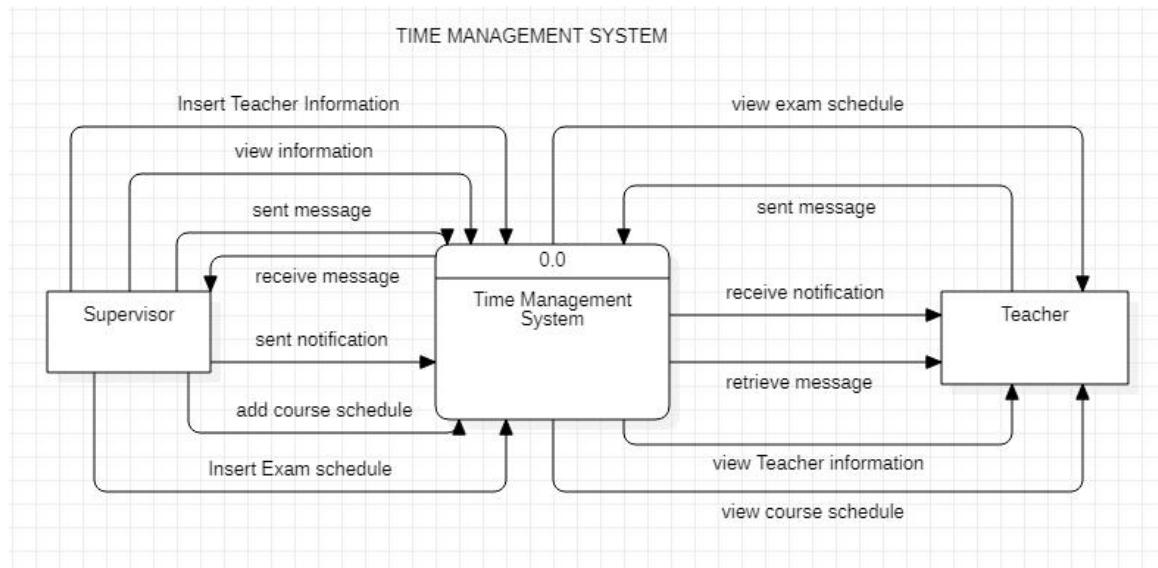


Figure 12: Chapter 3.1.4 level 0 DFD

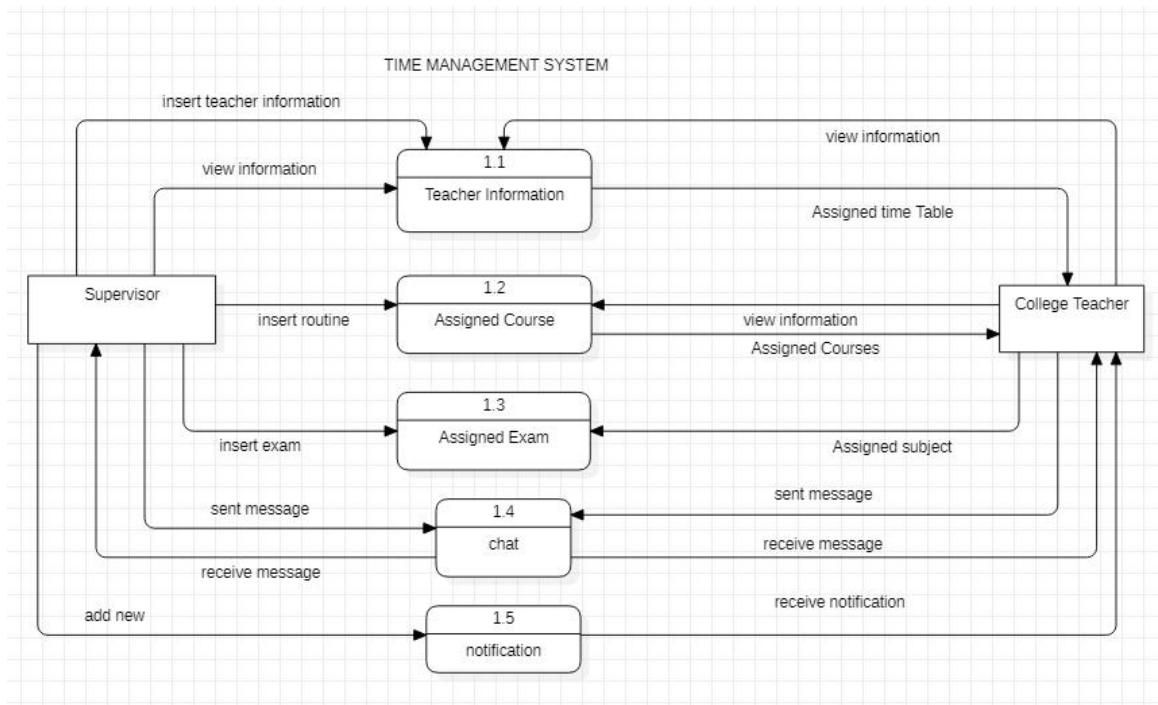


Figure 13: Chapter 3.1.4 level 1 DFD

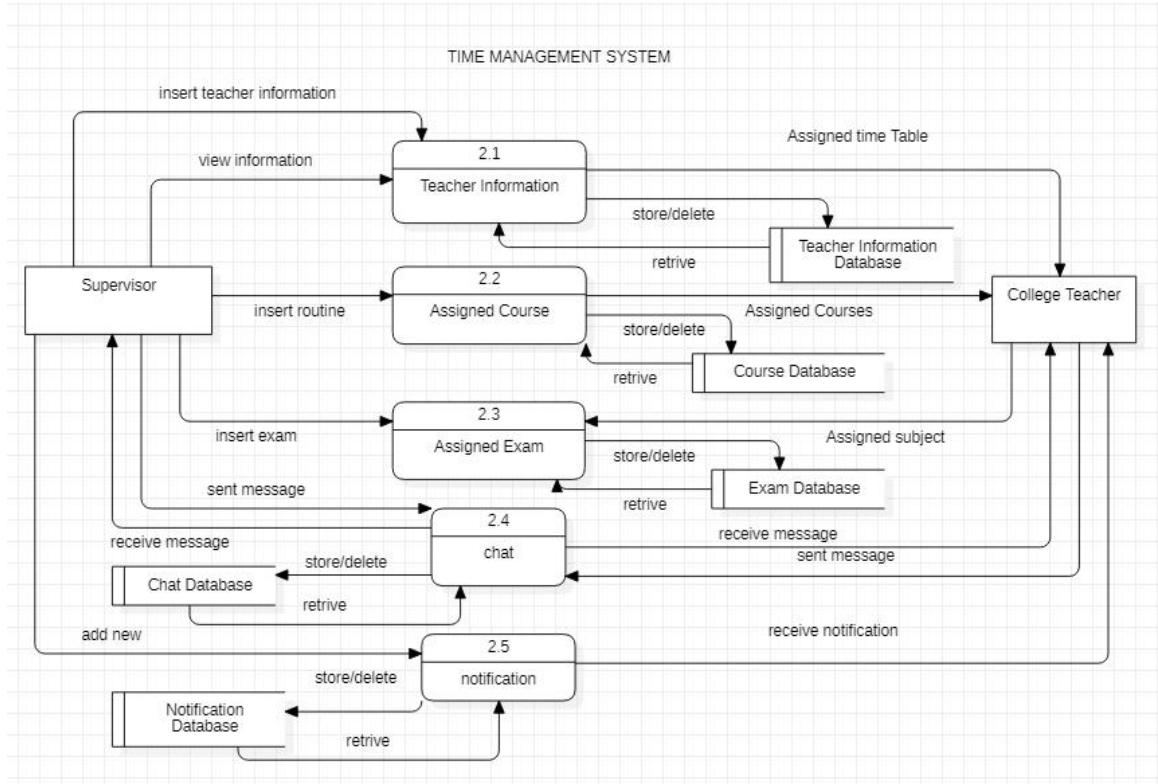


Figure 14: Chapter 3.1.4 level 2 DFD

3.2. System Design

3.2.1. Architectural Design

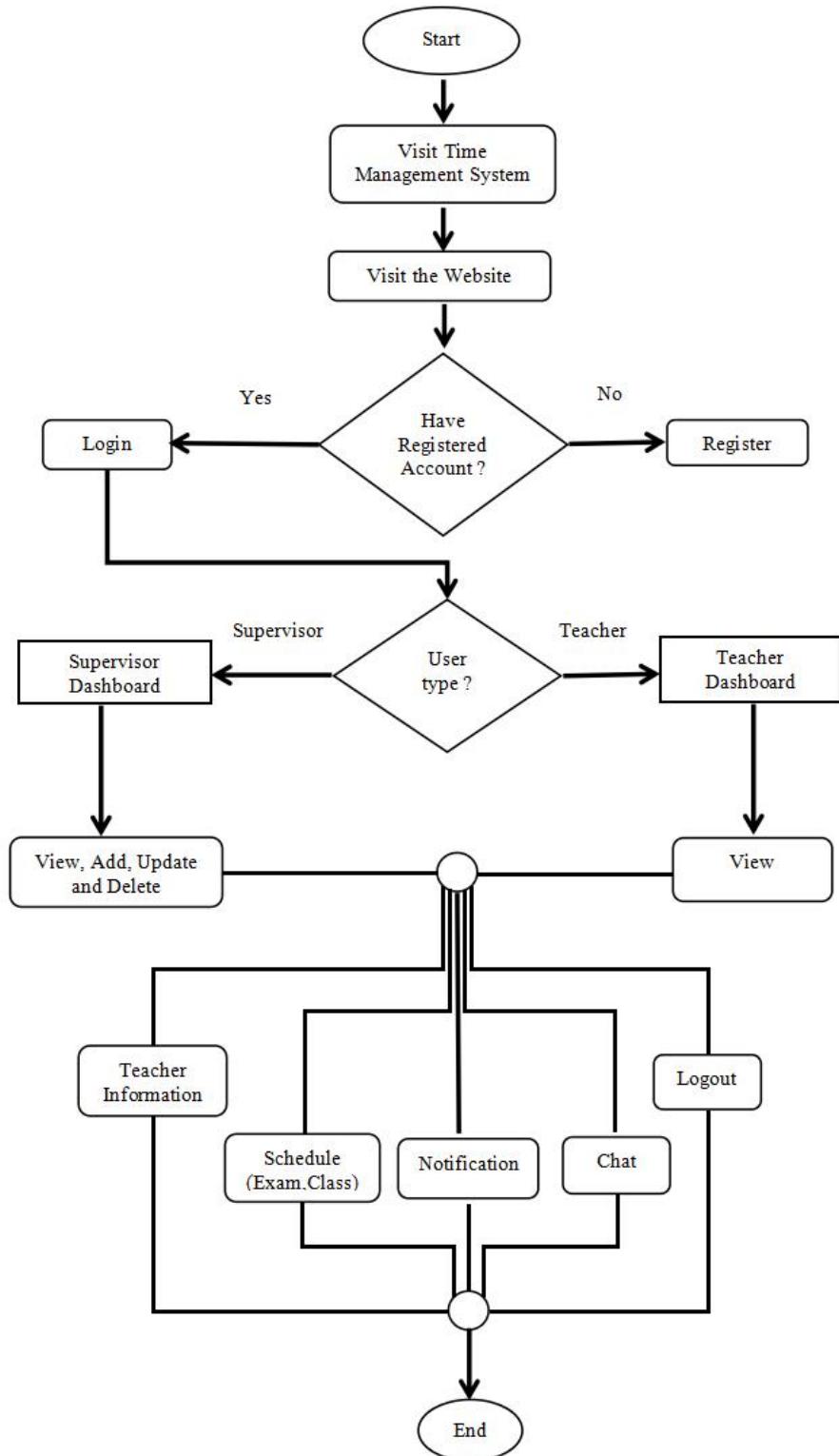


Figure 15: Chapter 3.2.1 Flow-chart

Above flowchart shows the workflow of the system. As anyone enter in the system then he/she have to login first. But for that the account should register in his/her name. If he/she has the account can easily login into the main system. Before that the system analysis whether the login person is supervisor or teacher. When it is determined then dashboard will be freely able to access by the Teacher according the Teacher types. If the person is supervisor then he/she can add, delete, update in the system where teacher can view available information and sent message.

3.2.2. Database Schema Design

In this project, the Database is created thought the help of xampp with MySQL.

The main database is named as tms and it have six table name which have its own attributes which is shown in the figure below.

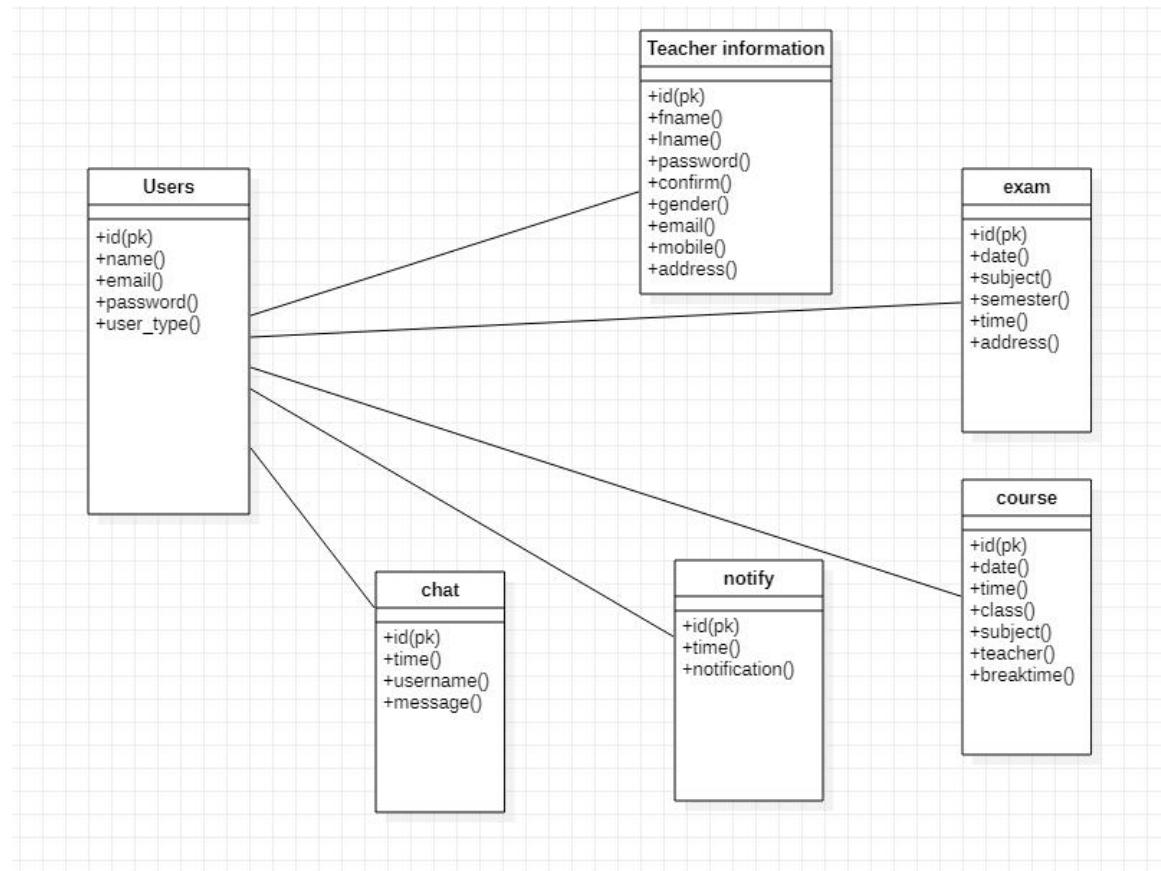


Figure 16: Chapter 3.3.2 Database schema

3.2.3. Interface Design (UI Interface / Interface Structure Diagrams)

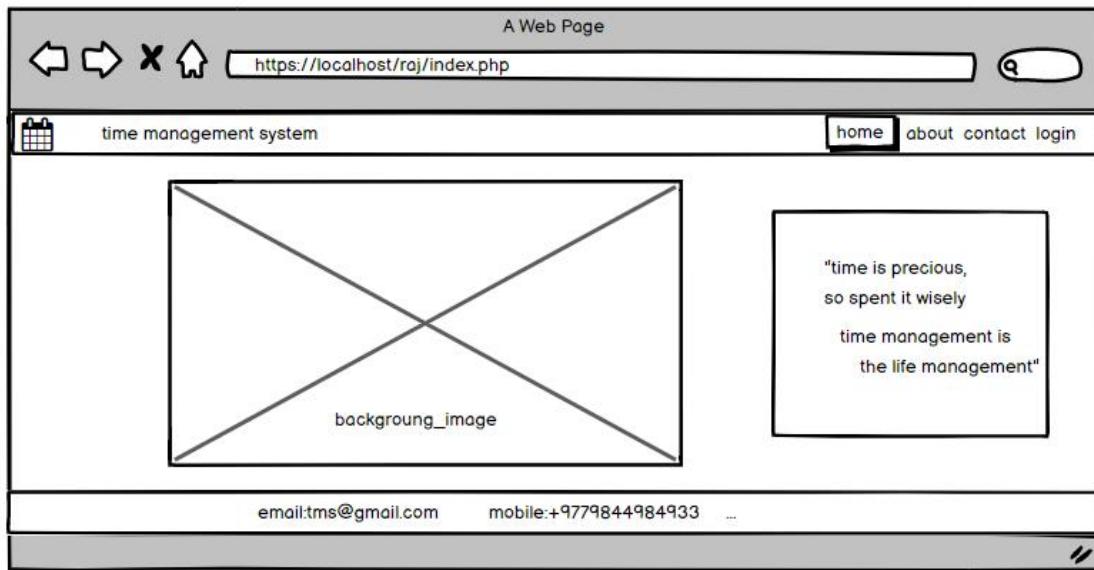


Figure 17: Chapter 3.2.3 home page UI

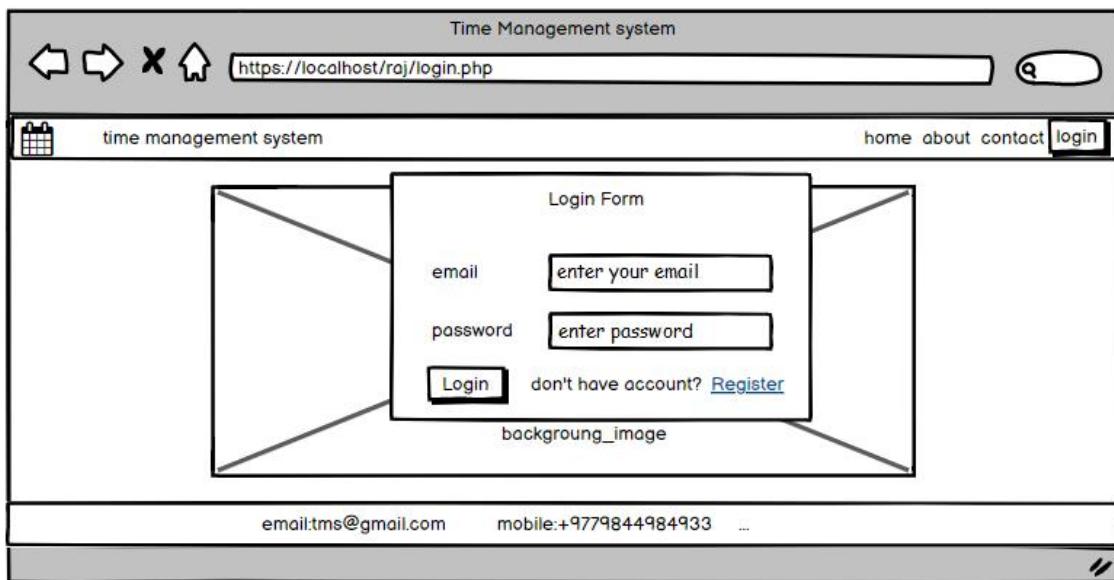


Figure 18: Chapter 3.2.3 Login UI

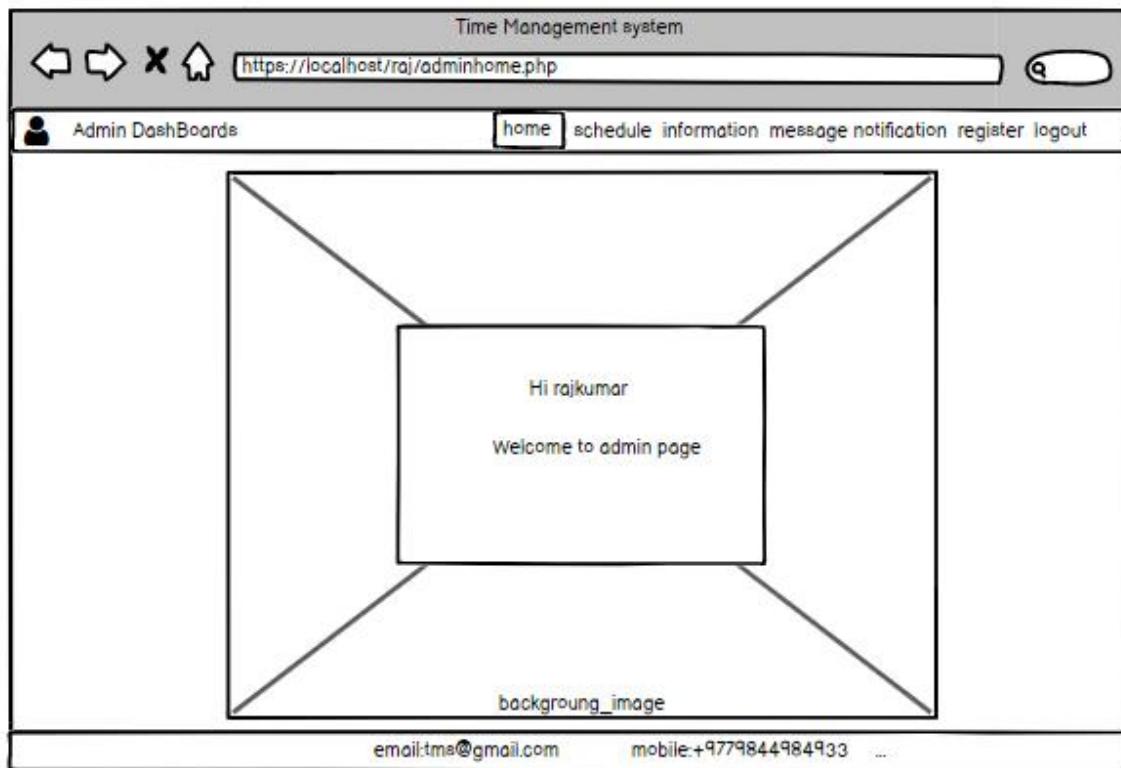


Figure 19: Chapter 3.2.3 supervisor page UI

The screenshot shows a web browser window for the 'Time Management system'. The title bar reads 'Time Management system'. The address bar shows the URL 'https://localhost/raj/createcourse.php'. The page header includes a user icon labeled 'Admin DashBoards' and navigation links for 'home', 'schedule', 'information', 'message', 'notification', 'register', and 'logout'. The main content area contains a form titled 'COURSE'. It includes fields for 'Date' (with placeholder 'mm/dd/yyyy'), 'Time' (with placeholder '...'), 'Class' (with placeholder '...'), 'Subject' (with placeholder '...'), 'Teacher' (with placeholder '...'), and 'Breaktime' (with placeholder '... >>'). Below these fields is a 'Register' button. The text 'background_image' is located at the bottom of the form area. At the bottom of the page, there are links for 'email:tma@gmail.com' and 'mobile:+9779844984933'.

Figure 20: Chapter 3.2.3 Schedule UI

Time Management system
https://localhost/raj/admininform.php

Admin DashBoards home schedule information message notification register logout

TEACHER INFORMATION

First name	enter your first name
Last name	enter your last name
Password	Enter your password
Confirm	confirm your password
Gender	Select
Email id	Enter your email id
Mobile	enter your number
Address	tal

add information

background_image

email:tms@gmail.com mobile:+9779844984933 ...

Figure 21: Chapter 3.2.3 Information UI

Time Management system
https://localhost/raj/chat.php

Admin DashBoards home schedule information message notification register logout

Chat

username	Enter your username
message	Type messsage....

Send

background_image

email:tms@gmail.com mobile:+9779844984933 ...

Figure 22: Chapter 3.2.3 Message UI

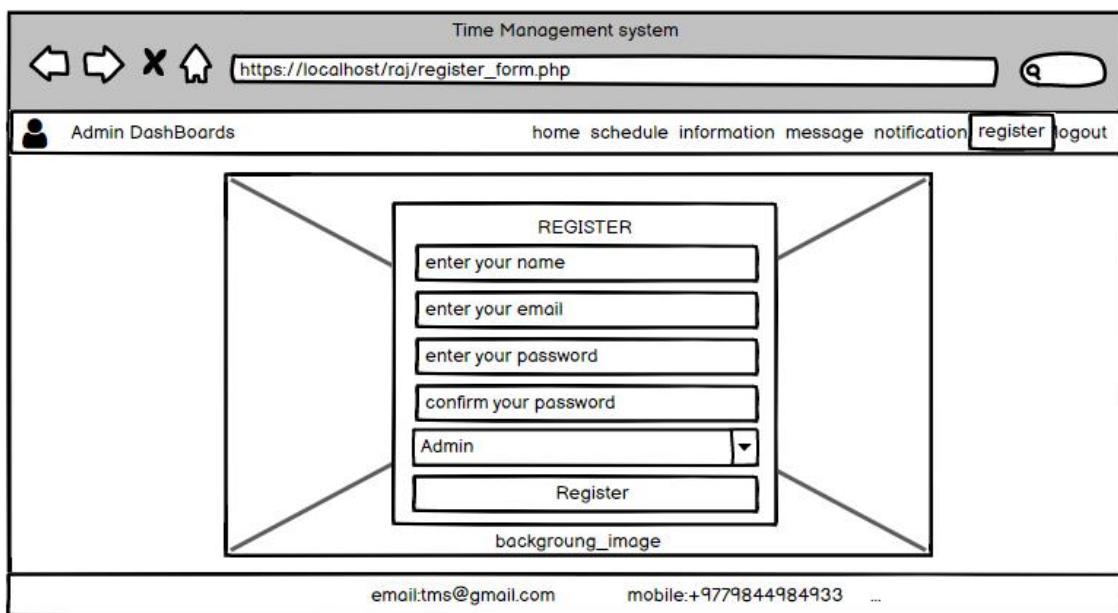


Figure 23: Chapter 3.2.3 Register UI

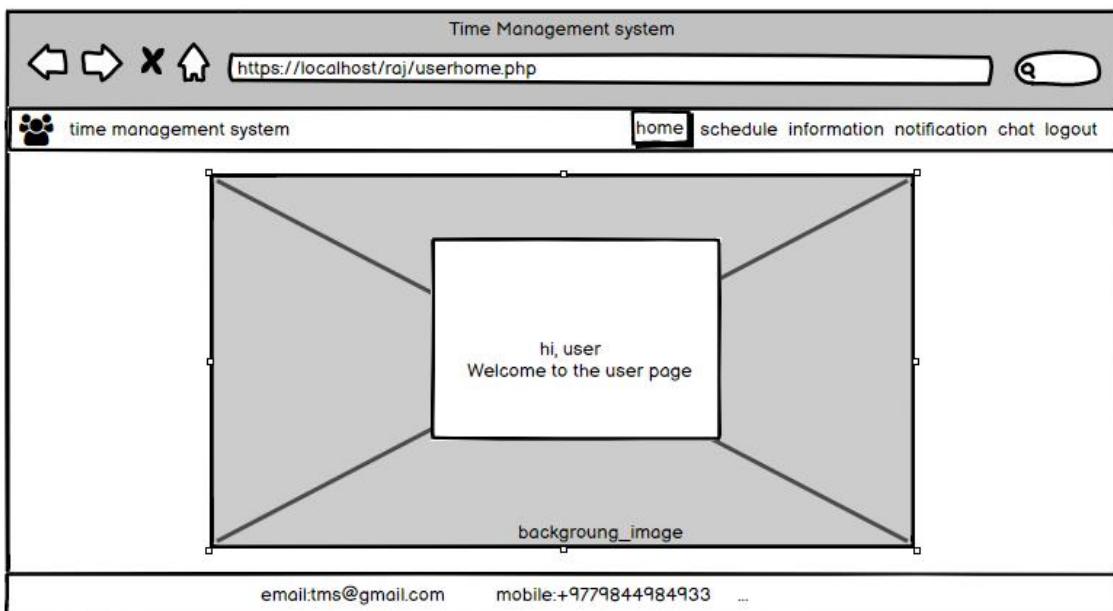


Figure 24: Chapter 3.2.3 Teacher page UI

Time Management system

https://localhost/raj/userexam.php

time management system

home schedule information notification chat logout

Exam

Course

Exam ...

id	subject	start time	end time	date	address
01	science	10:30	1:30	14th april	gwarko
02	math	10:30	1:30	16th april	gwarko
03	nepali	10:30	1:30	18th april	gwarko

background_image

email:tms@gmail.com mobile:+9779844984933 ...

This screenshot shows the Teacher Exam UI. At the top, there's a navigation bar with icons for back, forward, search, and home, followed by the URL 'https://localhost/raj/userexam.php'. Below the URL is a header with 'time management system' and navigation links for 'home', 'schedule' (which is highlighted in black), 'information', 'notification', 'chat', and 'logout'. A 'Exam' button is above a 'Course' button. A large table titled 'Exam' displays three rows of data: id (01, 02, 03), subject (science, math, nepali), start time (10:30), end time (1:30), date (14th april, 16th april, 18th april), and address (gwarko). The background features a faint watermark-like image of a person sitting at a desk. At the bottom, there are contact details: email 'tms@gmail.com' and mobile number '+9779844984933'.

Figure 25: Chapter 3.2.3 Teacher Exam UI

Time Management system

https://localhost/raj/usercourse.php

time management system

home schedule information notification chat logout

Exam

Course

Course ...

date	time	class	subject	teacher	breaktime
2022.01.01	7:30	2nd sem	science	ramsunzar	7:45
2022.01.02	8:30	2nd sem	math	susan	8:45
2022.01.03	9:30	2nd sem	english	ashmita	9:45

background_image

email:tms@gmail.com mobile:+9779844984933 ...

This screenshot shows the Teacher Course UI. The layout is similar to Figure 25, with a navigation bar at the top and a header with 'time management system' and 'schedule' highlighted. Below the header is a 'Course' button above an 'Exam' button. A table titled 'Course' lists three entries: date (2022.01.01, 02, 03), time (7:30, 8:30, 9:30), class (2nd sem), subject (science, math, english), teacher (ramsunzar, susan, ashmita), and breaktime (7:45, 8:45, 9:45). The background has a faint watermark of a person at a desk. Contact information at the bottom includes email 'tms@gmail.com' and mobile '9779844984933'.

Figure 26: Chapter 3.2.3 Teacher Course UI

Time Management system

https://localhost/raj/userinfo.php

time management system home schedule information notification chat logout

Information ...

id	firstname	lastname	gender	email	mobile	address
01	rajkumar	karki	male	raj@gmail.com	9848844442	gwarko
02	ram	kakri	male	ram@gmail.com	9848488484	gwarko
03	rupa	pariyar	female	rupa@gmail.com	9844884844	gwarko

background_image

email:tms@gmail.com mobile:+9779844984933 ...

The screenshot shows a web browser window for a 'Time Management system'. The URL is https://localhost/raj/userinfo.php. The page title is 'time management system'. A navigation bar at the top includes links for 'home', 'schedule', 'information' (which is highlighted), 'notification', 'chat', and 'logout'. Below the navigation is a section titled 'Information ...' containing a table with columns: id, firstname, lastname, gender, email, mobile, and address. Three rows of data are listed: 01 rajkumar karki male raj@gmail.com 9848844442 gwarko; 02 ram kakri male ram@gmail.com 9848488484 gwarko; and 03 rupa pariyar female rupa@gmail.com 9844884844 gwarko. At the bottom of the page, there is footer text: 'email:tms@gmail.com mobile:+9779844984933 ...'.

Figure 27: Chapter 3.2.3 Teacher Information

Time Management system

https://localhost/raj/usernotify.php

User Dashboard home schedule information message notification logout

Notification ...

Date/Time	Notification
12:20:41	check your exam

background_image

email:tms@gmail.com mobile:+9779844984933 ...

The screenshot shows a web browser window for a 'Time Management system'. The URL is https://localhost/raj/usernotify.php. The page title is 'User Dashboard'. A navigation bar at the top includes links for 'home', 'schedule', 'information', 'message' (which is highlighted), 'notification', and 'logout'. Below the navigation is a section titled 'Notification ...' containing a table with columns: Date/Time and Notification. One row of data is listed: 12:20:41 and 'check your exam'. At the bottom of the page, there is footer text: 'email:tms@gmail.com mobile:+9779844984933 ...'.

Figure 28: Chapter 3.2.3 Teacher Notification UI

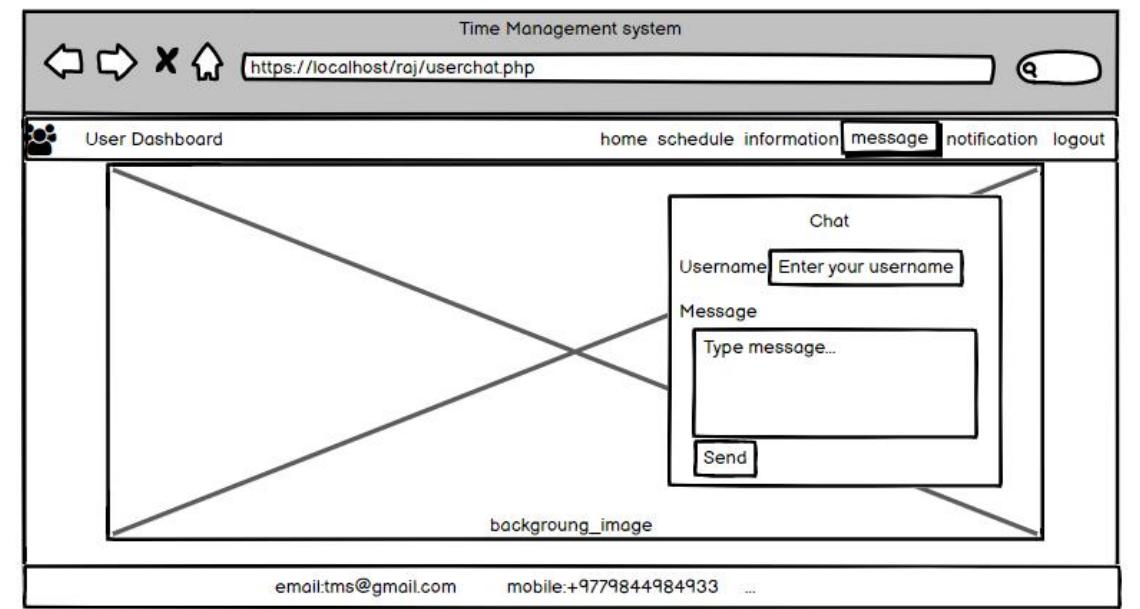


Figure 29: Chapter 3.2.3 Teacher Chat UI

3.2.4. Physical DFD

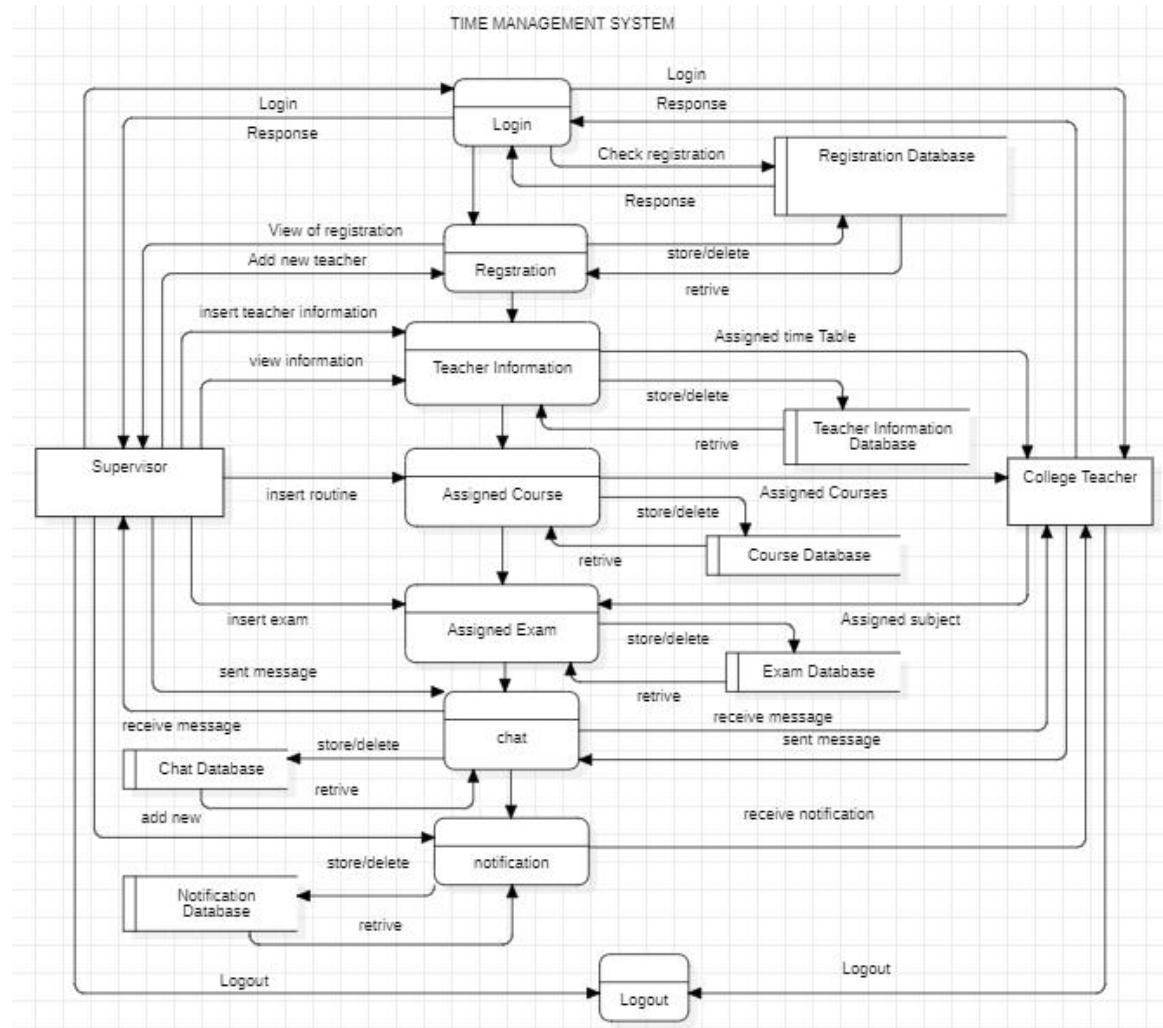


Figure 30: Chapter:3.2.4 Physical DFD

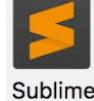
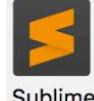
Chapter 4: Implementation and Testing

4.1. Implementation

4.1.1. Tools Used (CASE tools, Programming languages, Database platforms)

CASE Tools

Table 2: Chapter: 4.1.1 CASE tools

Used for	Tools and technologies				
Analysis Tools					
Design Tools					
Programming Tools					
Prototyping Tools					
Maintenance Tools					
Diagram Tools					
Process Modeling Tools					
Project Management Tools					
Documentation Tools					
Configuration Management Tools					

Change Control Tools	ProjectLibre™				
Web Development Tools	 Sublime  Google Chrome  Microsoft Edge  MySQL  XAMPP Control Panel				
Quality Assurance Tools	 WPS Office				

Storyboard



The Storyboard Creator is an graphic designing website through which textual form story can be created. It is very easy to use and can be learn through it. To use it, simply you have to drag and drop which is quite interesting and fun to make. It can be use by all ages of people. It have many characters and dialogue box images that helps to display the information of any kind in the form of image and pictures. [\[12\]](#)

Visual Paradigm



Visual Paradigm is an application software which is used by the software development teams to model business information systems and manage development processes. Along with modeling support, it also provides facilities of report generation and code engineering capabilities including code generation. [\[13\]](#)

XMind



XMind is a software developed by XMind Ltd. It is a mind mapping and brainstorming software which is used to capture ideas, clarify thinking, manage complex information and promote team collaboration. It supports mind maps, fishbone diagrams, tree diagrams, organization charts, spreadsheets etc and is used for knowledge management, meeting minutes and task management. [\[14\]](#)

StarUML



StarUML is a modular and open tool which provides frameworks for extending the functionality of the tools. It allows to access to all functions of the model/

meta-model and tool through COM Automation and provides extension of menu and option items. It allows Teachers to create their own approaches and frameworks according to their methodologies. Any external tools can be integrated with this tool. [15]

Sublime



Sublime Text is a shareware cross-platform source code editor which supports many programming and markup languages. Using plugins, Teachers can expand its functionality. To provide plugins feature, Sublime Text features a Python API. [16]

ProjectLibre

ProjectLibre™ ProjectLibre is the project management tool which is used to complete project details including time periods as required. In other terms, it can be said that it helps to create the timeline and deadlines of the project. This tool helps to show the needed or required time to complete the project. [17]

Balsamiq cloud



Balsamiq Cloud is a web-based Teacher interface design tool mostly used for creating wireframes. It is used to generate digital sketches of an idea or concept for an application or website, to facilitate discussion and understanding before writing any code. The completed wireframes are used for Teacher testing, clarifying vision, and getting feedback from stakeholders as well as for getting approval to start development. [18]

WPS Office



WPS Office is a free office software which includes Word, Spreadsheet, Presentation and PDF. It provides ideal working experience for devices like PC, pad and phone. It allows to achieve high work efficiency anytime and anywhere. [19]

YouTube



YouTube is a video sharing social media platform where any Teachers can watch, like, share, comment and upload their own videos. YouTube can be accessed through PC, laptops, tablets and mobile phones. [20]

Google Chrome



Google Chrome is a web browser developed by Google. It is used for displaying the contents of the web pages available on the internet. It was development to replace the Internet Explorer. It contains a new rendering engine, provides annotation features, easy to use icons and allows the Teacher to draw on Web pages. This browser also provides the features of betters security and better organization. It can also integrate with Cortana, Microsoft's virtual personal assistant. [\[21\]](#)

Microsoft Edge



Originally, it is the replacement of Internet Explorer. Since 1995, it was default browser in that time of windows system. It requires 1 GB of memory. It has a new rendering engine along with annotation features. it's allows Teacher s to draw on Web pages with easy to use icons features. As comparing with internet explorer, it has better security. [\[22\]](#)

Mysqli



The MySQL Extension (MySQL Improved) is a relational database driver used in the PHP scripting language to provide an interface with MySQL databases. The MySQLi extension features a dual interface - it supports both the procedural and object-oriented programming paradigms.

The MySQL server supports the use of different transport layers for connections. Connections use TCP/IP, Unix domain sockets or Windows named pipes. The hostname localhost has a special meaning. It is bound to the use of Unix domain sockets. It is not possible to open a TCP/IP connection using the hostname localhost you must use 127.0.0.1 instead.

Statements can be executed with the `mysqli_query()`, `mysqli_real_query()` and `mysqli_multi_query()` functions. [\[29\]](#)

XAMPP



XAMPP is a cross-platform web server that is free and open-source. XAMPP is a short form for Cross-Platform, Apache, MySQL, PHP, and Perl. XAMPP is a popular cross-platform web server that allows programmers to write and test their code on a local web server. It was created by Apache

Friends, and the public can revise or modify its native source code. It includes MariaDB, Apache HTTP Server, and interpreters for PHP and Perl, among other computer languages. [31]

Programming Languages

Table 3: Chapter: 4.1.1 Programming tools

Used for	Tools and technologies
Programming languages	     

HTML



The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document. [23]

JavaScript



JavaScript is a dynamic programming language that's used for web development, in web applications, for game development, and lots more. It allows you to implement dynamic features on web pages that cannot be done with only HTML and CSS.

Many browsers use JavaScript as a scripting language for doing dynamic things on the web. Any time you see a click-to-show dropdown menu, extra content added to a page, and dynamically changing element colors on a page, to name a few features, you're seeing the effects of JavaScript. [24]

CSS



Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts. This separation can improve content accessibility; provide more flexibility and control in the specification of presentation characteristics; enable multiple web pages to share formatting by specifying the relevant CSS in a separate. [\[25\]](#)

PHP



PHP is a general-purpose scripting language geared toward web development. PHP originally stood for Personal Home Page, but it now stands for the recursive initialism PHP: Hypertext Preprocessor.

PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of an HTTP response. [\[26\]](#)

Ajax



AJAX stands for Asynchronous JavaScript and XML. AJAX is a new technique for creating better, faster, and more interactive web applications with the help of XML, HTML, CSS, and Java Script. Ajax uses XHTML for content, CSS for presentation, along with Document Object Model and JavaScript for dynamic content display.

It uses various web technologies on the client-side to create asynchronous web applications. With Ajax, web applications can send and retrieve data from a server asynchronously (in the background) without interfering with the display and behaviour of the existing page. [\[27\]](#)

JQuery



Query is a JavaScript library designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animation, and Ajax. jQuery's syntax is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, and develop Ajax applications. jQuery also provides capabilities for developers to create plug-ins on top of the JavaScript library. This enables developers to create abstractions for low-level interaction and animation, advanced effects and high-level, theme-able widgets. [\[28\]](#)

4.1.2. Implementation Details of Modules (Description of procedures/functions)

supervisor module

supervisor is the main person who has the full authorities and rights to access the website. So supervisor have many features on websites like registering the name of the Teacher , adding new schedule, new courses and time duration and deleting, update and view.

Login

Login feature allows supervisor to authenticate person who would have the power of controlling the system . Login features allows supervisor to enter into the system if he/she is the supervisor of the system.

Register

Register feature allows supervisor to register the Teacher by their name along with emails. Register feature, registered Teacher can enter into the system which allows Teachers to be part of the system.

Addition

Addition features allows supervisor to add anything in the system. supervisor can add Teacher as the member of the system, adding new schedule, duration of time, course division and Teacher 's information.

Deletion

Deletion features allows the supervisor to delete anything from the system if it is not needed anymore. This allows to remove Teacher from being member of system, deleting the schedule, details of Teacher s.

Update

Update features allows supervisor to change in the Teacher's email, schedule, duration of time and course division, etc if it is needed. Sometimes data entry in the system might occurs mistake. At that time edit is must needed to correct it.

View

View features allows supervisor to view the supervisor dashboard only but can do some activities that Teacher can't do. supervisor can view the register list of the Teacher s along with data.

Teacher's module

Teacher are the member of the system who are added by admin. supervisor register their name, id and their password as the key to login in the system. Teacher also have some features like login into the system with their Id and password, view the content of the scheduling, course and time duration and can communicate with supervisor with chat feature.

Login

The system has login features for Teacher. Login features allows Teacher to enter in the system if their name is register in the system.

View

View features allow Teacher to see only Teacher dashboard. Teacher can view every schedule, information of Teacher and exam routine done by the admin.

Notification

Notification features allow Teacher to notify about change or anything that happens in the system.

Chatting Module

Both supervisor and Teacher has chatting features to communicate. Whenever both have any problems on schedule, they simple can chat with admin.

4.2. Testing

4.2.1. Test Cases for Unit Testing

Table 4: Chapter 4.2.1 Unit testing

S.N o	Action	Inputs	Expected Output	Actual Output	Test Result	Test Comment
1.	Add button	On click Add button	Inserted new data	Inserted new data	Pass	Inserted successful
2.	Update button	On click update button	Update existing data	Update existing data	Pass	Updated successful
3.	Delete button	On Click Delete button	Delete exist data	Deleted Existing data successful	Pass	Deleted successful
4.	View button	On click Display button	Display the details of existing data	Successful Displaying the data	Pass	View Successful
5.	Chat button	click on Chat button with message	Sent message to Teachers	Message sent	Pass	Message sent successful
6.	Notify button	Click on notify with message	Notification is sent	Notification sent	pass	Notification sent Successful
7.	Logout button	On click Logout button	Logout from the system	logout From the system	Pass	logout successful

4.2.2. Test Cases for System Testing

Table 5: Chapter 4.2.1 System testing

S.No	Action	Input	Expected Output	Actual Output	Test Result	Test Comment
1.	Launch TMS System	https://localhost/raj/index.php	TMS home	TMS home	Pass	Launch Successful
2.	Login with valid email and password	email Id:raj400@gmail.com Password: ***	Login Successful	Login Successful	Pass	Login successful
3.	Login with invalid email and valid password	email Id:raj456@gmail.com Password: ***	Incorrect password and email	Incorrect password and email	Pass	Fail to login
4.	Login with valid email and invalid password	email Id:raj400@gmail.com Password: *****	Incorrect password and email	Incorrect password and email	Pass	Fail to login
5.	Login with invalid email and password	email Id:raj456@gmail.com Password: *****	Incorrect password and email	Incorrect password and email	Pass	Fail to login

Chapter 5: Conclusion and Future Recommendations

5.1. Lesson Learn / Outcome

This is my first project so I didn't have knowledge and idea to develop the website. Even I was confuse in which topic I should develop the website. My Teacher gave me some idea to select the topic. So, I chose college based time management system. Although I got the topic I was still unknown from where to start and where to end the project. So I started searching what kind of time management will be good for the college. I thought about the Teacher and coordinator to generate good relationship and time table schedule between them through online based system. Where there will be Teacher information, course routine and exam routine along with notification and chat functions. And I started coding and documentation where again I faced many problems with it too. I had only little knowledge about the programming language with the help of my subject Teacher (scripting languages). I have learned PHP, JavaScript, Ajax, MySQL and WordPress but to run them combining the code is so difficult and I didn't have idea. But with the help of Ujjwal sir, he guided me. I got knowledge and idea from w3school where the code is explained properly. And even through YouTube channel like Mr.web designer and Cyber warriors who explained more clearly. In the same way I also tried to execute the code in my own laptop and in the first tired I was successful to develop first home page with HTML and CSS. But as I started coding for login and registration, it required the database to store the registered data. So I have to download XAMPP as to run MYSQL and I have to create database with connection to website as to retrieve the data from database as for login. For three times I was fail to develop the websites because I couldn't find out the main error. But at the 4th time, my Teacher guided me to find out the error, why errors occurs and how to solve it. When I developed website and wanted to change in it, I got one great idea in the google with the right click of mouse. It gives us Inspects features through which we can see the one by one changes in the website with out disturbing the real code. This was best step for me to learn as a beginner. This is how I completed my project. Through this project I have gain many idea and knowledge about the coding and documentation. I learned about XAMPP, PHP, java Script, HTML, CSS and MYSQL with combining execution and dealing with errors and solving it.

What I have learn was only in theoretical but this project really help me to achieve real time experiences and to develop executable system.

5.2. Conclusion

Finally, I have completed my project meeting all the guidance and requirements of TU. My project was on college based time management system which have many features are includes like Teacher 's information, exam routine, course schedule, registration, chat and notification. And it the demo type website system which manages the schedule within the academic fields. But as looking around in Nepal, everyone is not properly using the time and somehow in Nepal, every work is not completed on time and having habituate of late being. So I want to develop this system with many features which can be useful in any fields and can bring well systematic change in Nepal and Nepali Societies. So it is the first step for me to learn that I'm able to develop the demo type websites.

5.3. Future Recommendations

My project is completed with sweet and simple concept. But I want to develop it totally online server based system in the upcoming future which will be require host account like domain. I will develop it fully functional web server along with having several features like accurate time table, calenders feature, meeting scheduling, minuting features, managing time table for students. The system will be not only for Teacher but it will be for students too. My system would be easy to use in any fields like education, business, etc. The system would be compatible with any electronic devices like android mobiles, tablets, computers, etc.

Appendices

The screenshot shows the phpMyAdmin interface for the 'tms' database. The left sidebar lists databases and tables, with 'users' selected. The main area displays the 'users' table with the following data:

	id	name	email	password	user_type
<input type="checkbox"/>	9	raj	pk4505442@gmail.com	202cb962ac59075b964b07152d234b70	admin
<input type="checkbox"/>	10	susan	susan@gmail.com	d81f9c1be2e08964bf9f24b15f0e4900	user
<input type="checkbox"/>	11	binod thapa	binod4315@gmail.com	9bcad364a11f5b1c954cf588389e378b	user
<input type="checkbox"/>	13	Renuka Timalsin	Renukatima@gmail.com	d81f9c1be2e08964bf9f24b15f0e4900	admin
<input type="checkbox"/>	14	raj	ddd@gmail.com	202cb962ac59075b964b07152d234b70	user
<input type="checkbox"/>	15	ambika karki	ambika@gmail.com	202cb962ac59075b964b07152d234b70	user

Figure 31: Appendices-Teacher type

The screenshot shows the phpMyAdmin interface for the 'tms' database. The left sidebar lists databases and tables, with 'exam' selected. The main area displays the 'exam' table with the following data:

	id	date	subject	code	semester	time	address
<input type="checkbox"/>	1	2022-12-24	science	100	1st	10:30	talchki
<input type="checkbox"/>	2	2022-08-16	math	125	3rd	23:19	tal
<input type="checkbox"/>	3	2022-08-19	nepali	150	4th	09:03	gwarko
<input type="checkbox"/>	4	2022-08-19	computer	200	3rd	11:31	RR college
<input type="checkbox"/>	5	2022-09-05	science	200	2nd	23:30	gwarko

Figure 32: Appendices-Exam database

The screenshot shows the phpMyAdmin interface for the 'course' table in the 'tms' database. The left sidebar lists databases and tables, with 'course' selected. The main area displays the table structure and data. The SQL query at the top is:

```
SELECT * FROM `course`
```

The table has columns: id, date, time, class, subject, teacher, breaktime. Two rows are shown:

	id	date	time	class	subject	teacher	breaktime
<input type="checkbox"/>	4	0000-00-00	09:12:00.000000	bca	computer	ram sundar	09:18:00.000000
<input type="checkbox"/>	5	2022-08-02	09:10:00.000000	bca	math	ram sundar	09:10:00.000000

Figure 33: Appendices-Course database

The screenshot shows the phpMyAdmin interface for the 'inform' table in the 'tms' database. The left sidebar lists databases and tables, with 'inform' selected. The main area displays the table structure and data. The SQL query at the top is:

```
SELECT * FROM `inform`
```

The table has columns: id, fname, lname, password, confirm, gender, email, mobile, address. Two rows are shown:

	id	fname	lname	password	confirm	gender	email	mobile	address
<input type="checkbox"/>	29	raj	karki	123	123	Male	pk4505442@gmail.com	123134331231	gwarko
<input type="checkbox"/>	30	jina	kc	123	123	Male	jina@gmail.com	988655433488888	thasikhel

Figure 34: Appendices-Information database

Showing rows 0 - 0 (1 total, Query took 0.0175 seconds.)

```
SELECT * FROM `notify`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

	id	time	notification
<input type="checkbox"/>	5	12:20:41.000000	check you exam

Show all | Number of rows: 25 Filter rows: Search this table

Check all With selected: Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Figure 35: Appendices-Notification database

Showing rows 0 - 1 (2 total, Query took 0.0039 seconds.)

```
SELECT * FROM `chat`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

	id	time	username	message
<input type="checkbox"/>	49	2022-08-28 18:23:55.000000	joshua	hi
<input type="checkbox"/>	50	2022-08-28 22:13:43.000000	rajkumar	sir i wouldlike to take some days holiday.

Check all With selected: Edit Copy Delete Export

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Figure 36: Appendices-Chat database

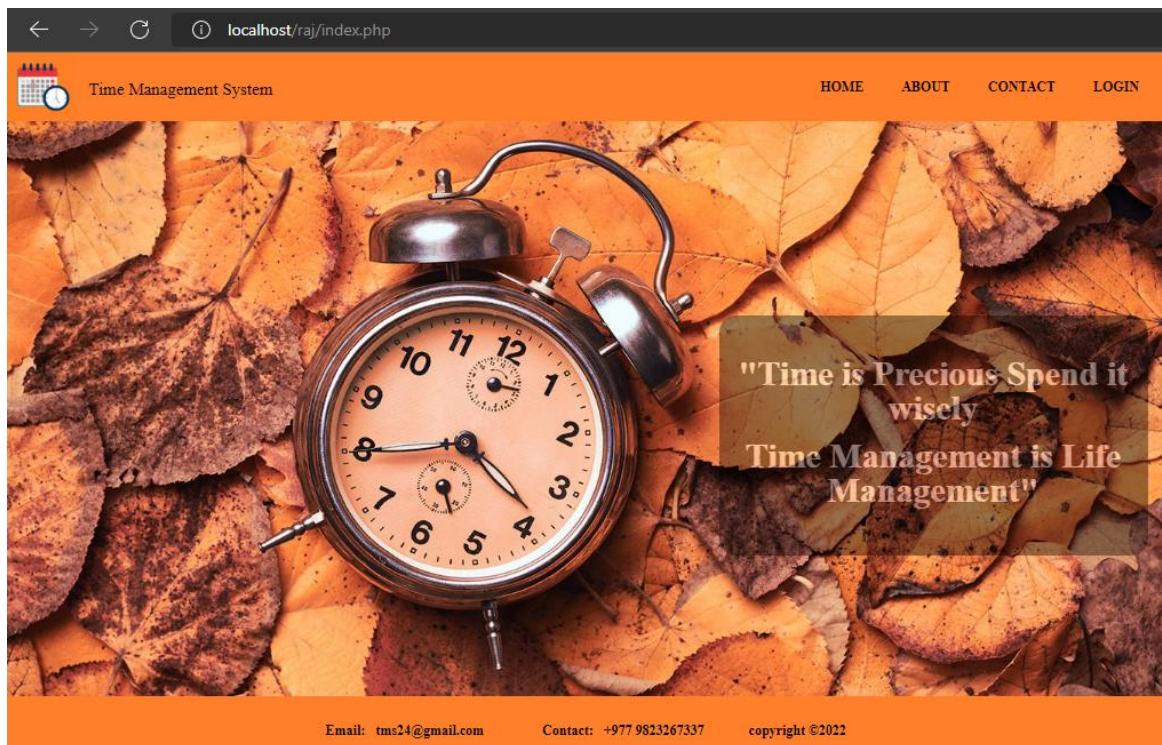


Figure 37: Appendices-Home page

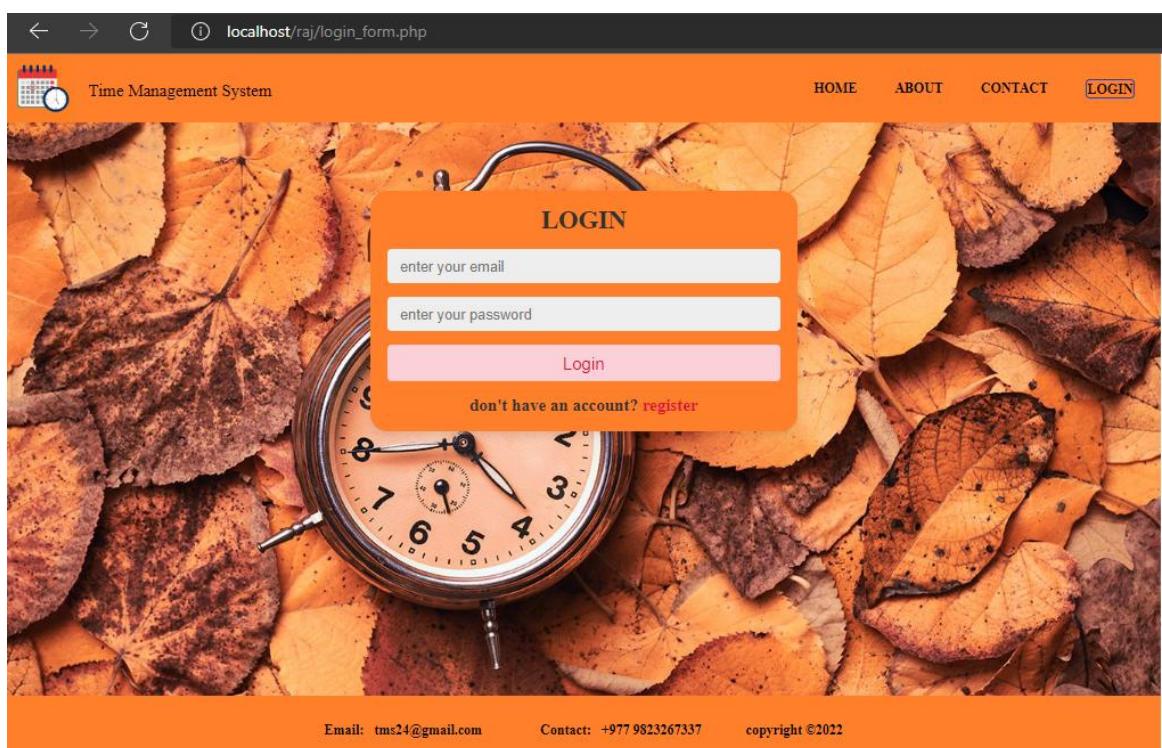


Figure 38: Appendices-Login

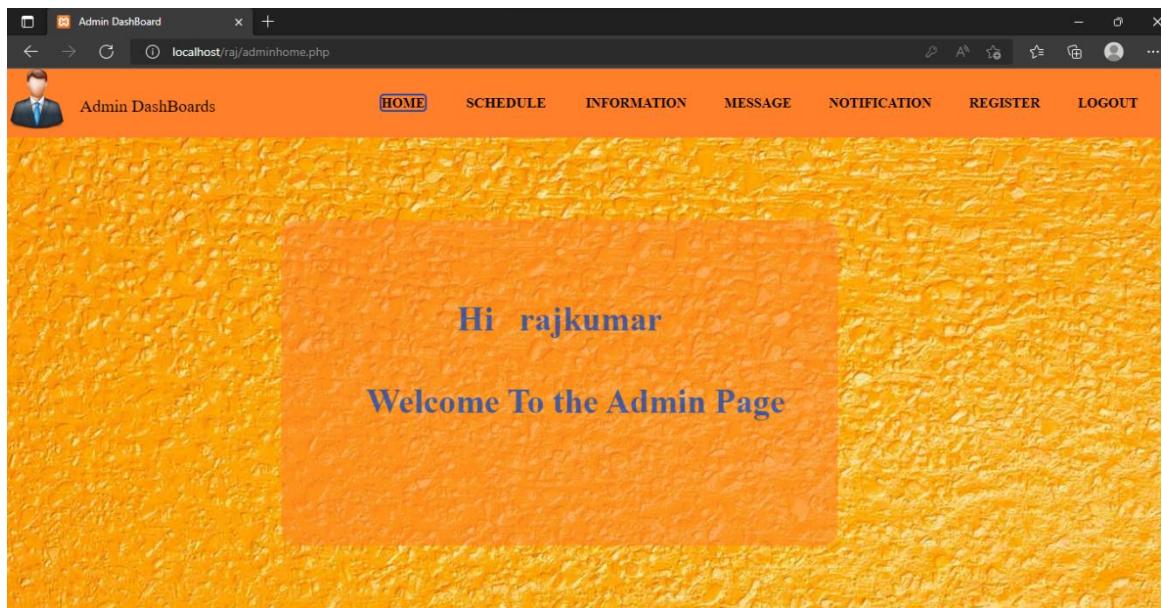


Figure 39: Appendices-supervisor page

A screenshot of a web browser window titled "localhost/raj/createexam.php". The URL is "localhost/raj/createexam.php". The page has a yellow background with a textured pattern. At the top, there is a navigation bar with links: "HOME", "SCHEDULE" (which is highlighted in blue), "INFORMATION", "MESSAGE", "NOTIFICATION", "REGISTER", and "LOGOUT". On the left side, there is a user profile icon and the text "Admin DashBoards". In the center, there is a form titled "EXAM-ROUTINE" with the following fields:

- Date: 09/09/2022
- Subject: nepali
- Code: 345
- Semester: 2nd
- Start Time: 11:50 AM
- End Time: 10:52 AM
- Address: 1e1e

A "Add Routine" button is at the bottom of the form.

Figure 40: Appendices-Exam Routine

The screenshot shows a web application titled "Admin Dashboards" at the top left. The navigation bar includes links for HOME, SCHEDULE (which is highlighted in blue), INFORMATION, MESSAGE, NOTIFICATION, REGISTER, and LOGOUT. The main content area has a yellow textured background. A white rectangular form is centered, titled "COURSE". It contains the following fields:

Date	08/02/2022
Time	09 : 10 AM
Class	bca
Subject	math
Teacher	ram sundar
Break Time	09 : 10 AM

At the bottom of the form is a yellow "Register" button.

Figure 41: Appendices-Course schedule

The screenshot shows the same "Admin Dashboards" interface. The "TEACHER-INFORMATION" form is displayed in the center. It has a white background with a yellow header. The form fields are:

First Name	Enter your first name
Last Name	Enter your last name
Password	Enter your password
Confirm	Confirm your password
Gender	Select
Email ID	Enter your email id
Mobile	Enter your number
Address	(empty text area)

At the bottom of the form is a yellow "Add Information" button.

Figure 42: Appendices-Teacher Information

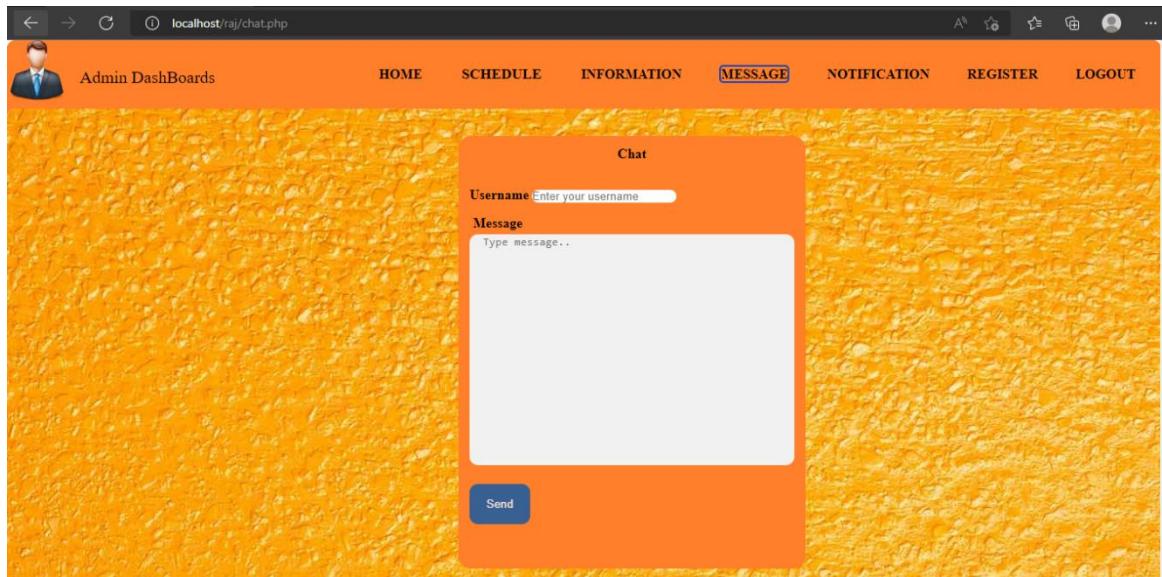


Figure 43: Appendices-Message

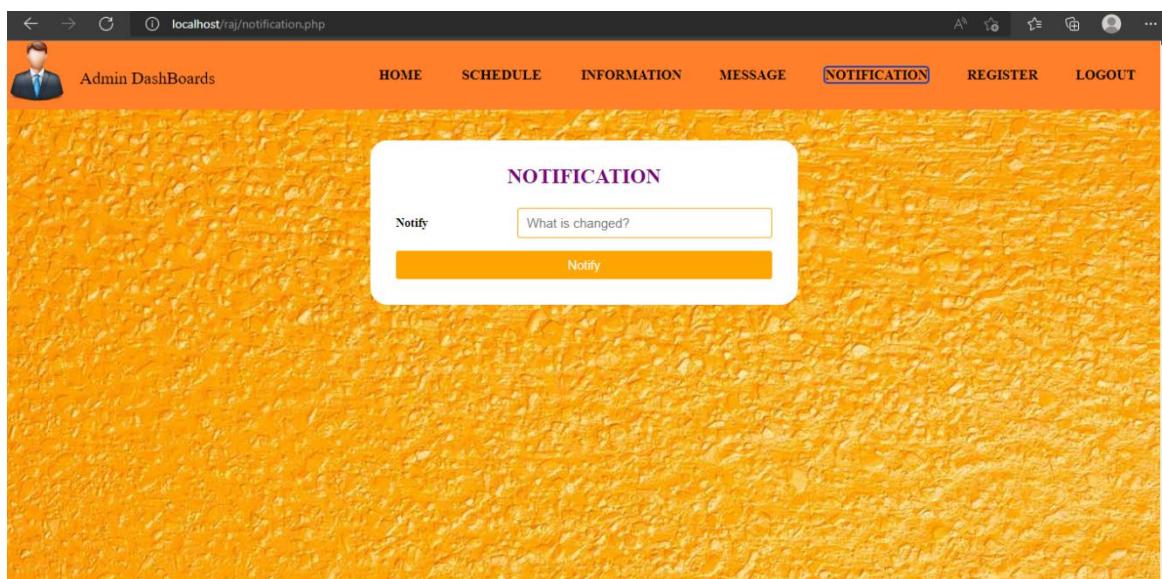


Figure 44: Appendices-Notification

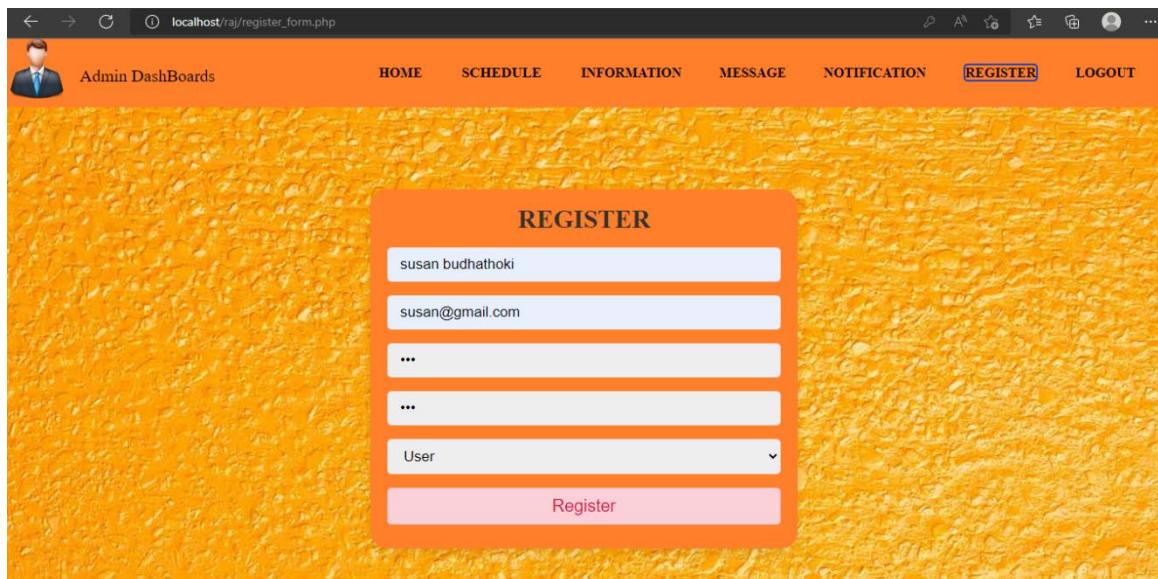


Figure 45: Appendices-Register

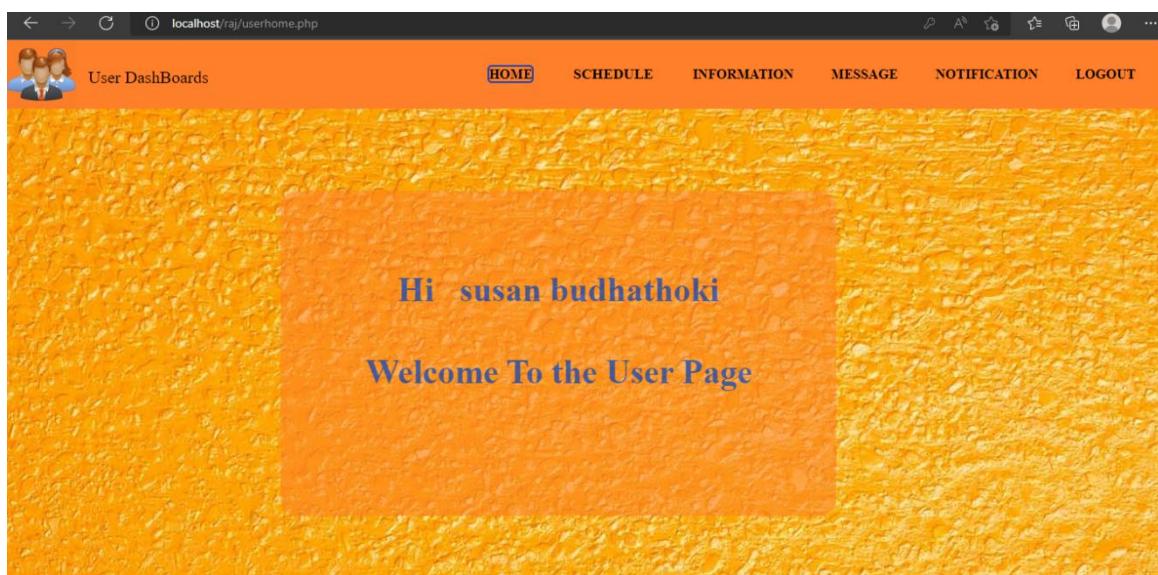


Figure 46: Appendices-Teacher page

The screenshot shows a web application interface with a header bar containing links for 'HOME', 'SCHEDULE' (which is highlighted in blue), 'INFORMATION', 'MESSAGE', 'NOTIFICATION', and 'LOGOUT'. Below the header, a message reads: 'All the Teachers are hereby informed that the exam will be conducted as per the following schedule'. A table titled 'Exam Routine' displays the following data:

Date	Subject	Code	Semester	Start Time	End Time	Address
2022-09-09	nepali	345	2nd	11:50:00.000000	10:52:00.000000	lele

Figure 47: Appendices-Display exam routine

The screenshot shows a web application interface with a header bar containing links for 'HOME', 'SCHEDULE', 'INFORMATION' (which is highlighted in blue), 'MESSAGE', 'NOTIFICATION', and 'LOGOUT'. Below the header, a section titled 'Teachers Information' displays the following data:

First Name	Last Name	Gender	Email	Mobile	Address
susan	budhathoki	Female	susan@gmail.com	2147483647	tal

Figure 48: Appendices-Display teacher information

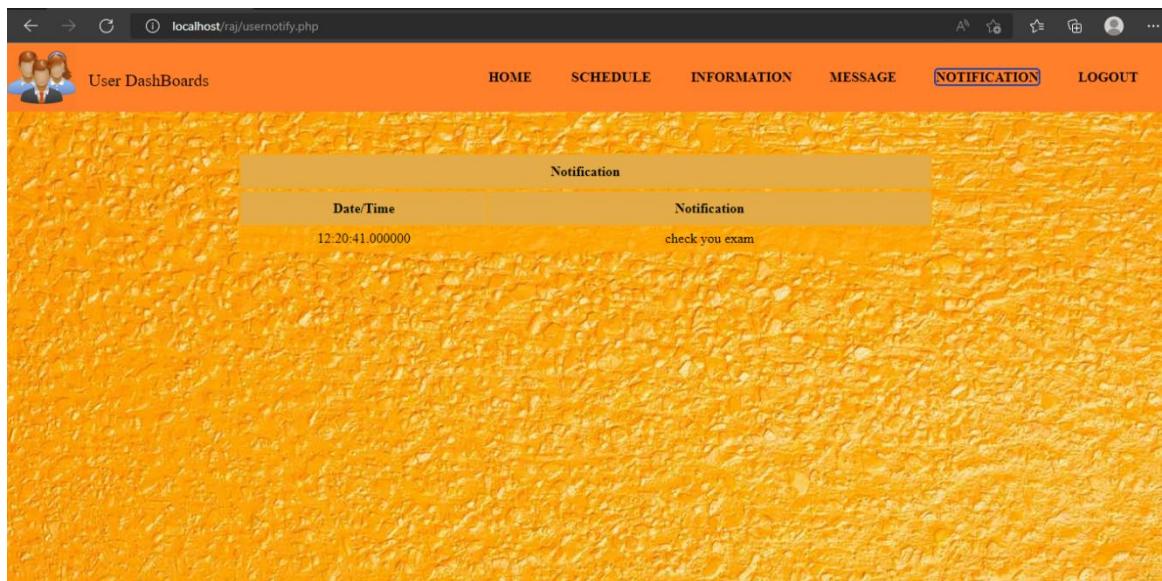


Figure 49: Appendices-Display Notification

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