

**LA GRANDEE INTERNATIONAL COLLEGE**

**Simalchaur, Pokhara Nepal**

A Project Proposal On

**“Mind Mend”**

Submitted to:

La Grandee International College Bachelor of Computer Application (BCA)Program

In partial fulfilment of the requirements for the degree of BCA under Pokhara University

Submitted by:

|  |  |  |  |
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Date: July-28, 2023

# Acknowledgement

We have presented this report focusing on the topic “**MindMend**”. This report has been prepared for partial fulfilment of the requirement for degree of BCA and to have practical experience.

We are heartily thankful to the faculty of IT, LA Grandee international college and our supervisor **Mr.Sunil Sapkota** for their role to motivate and lead for this report. We obliged towards their constant guidance, supervision and feedbacks which enabled us to prepare a well-executed report.

Further, we express our gratitude to LA Grandee family, classmates, seniors and teachers who have directly and indirectly supported us during our report.

Sincerely,

Sapna Baniya

Mahima Sharma

Nabraj Paudel

**Declaration for**

**“MindMend”**

# Student’s Declaration

We hereby declare that we are the only authors of this work and that no sources other than the mentioned here we have been used in this. We assure you that the work we present here is unique to ourselves and resemblances to another similar project are pruely coincidental.

Sapna Baniya (19530129):

Mahima Sharma (19530113) :

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Program : BCA 8th Semester

Date : 28/07/2023

# Supervisor’s Declaration

I hereby recommend that this project entitled “**MindMend**” is done under my supervision by **Sapna Baniya(19530129), Mahima Sharma(19530113) and Nabraj Paudel (19530116)** during their 8th Semester in partial fulfilment of the requirements for the degree of **BCA (Bachelors of Computer Application)** under **Pokhara University** is completed to my satisfaction and be processed for final evaluation.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Sunil Sapkota**

Date:28/07/2023

# Abstract

This report is presented to the Department of Computer Application, LA Grandee International College as a part of the Project of BCA 8th Semester. Moreover this report can be considered as the overview of the project MindMend.

The MindMend Project is an innovative and collaborative initiative aimed at revolutionizing the field of mental health and well-being. This visionary project brings together experts from diverse disciplines, including neuroscience, psychology, artificial intelligence, and technology, to address the challenges associated with mental health issues.

The primary mission of the MindMend Project is to provide accessible, effective, and personalized solutions for individuals struggling with mental health problems. Leveraging cutting-edge technologies, data-driven approaches, and evidence-based practices, the project seeks to enhance mental health care, reduce stigma. Ethical considerations, data privacy, and user confidentiality are paramount in the MindMend Project's endeavors. By creating a compassionate and understanding environment, the project aims to break down barriers that prevent individuals from seeking help and create a world where mental health is valued, nurtured, and treated with the same importance as physical health.

Mental health disorders affect millions of people worldwide, impacting their well-being, relationships, and overall quality of life. Despite the prevalence of these challenges, there is still a significant stigma surrounding mental health, which often prevents individuals from seeking help. This system aims to break down these barriers and provide a safe and supportive space for individuals to address their mental health concerns.

This system provides Personalized Support through personalized assessments and data analysis, the project tailors recommendations, interventions, and resources to suit each user's specific needs, empowering them to take charge of their mental well-being.

Because of this, we have choosen to develop MindMend, an Online Mental Health Improvement system.

**Table of Contents**

1. [Introduction 2](#_bookmark0)
2. [Problem Statement 3](#_bookmark1)
3. [Objectives 4](#_bookmark2)
4. [Methodology 5](#_bookmark3)
5. [Requirement Analysis 7](#_bookmark4)
   1. [Functional Requirements: 7](#_bookmark5)
   2. [Non- Functional Requirement 8](#_bookmark6)
6. [System Analysis and Design 9](#_bookmark7)
   1. [Class Diagram 9](#_bookmark8)
   2. [Class Diagram 9](#_bookmark9)
   3. [ER Diagram 10](#_bookmark11)
   4. [Data Flow Diagram 11](#_bookmark12)
7. [Gantt Chart 15](#_bookmark16)
8. [Completed Task 16](#_bookmark18)
9. [Incomplete Task 17](#_bookmark19)
10. [Deliverables 18](#_bookmark20)
11. [References 23](#_bookmark25)

**List Of Figures**

Figure 1: Agile Methodology 5

[Figure 2: Class Diagram 9](#_bookmark10)

Figure 3: ER Diagram 10

Figure 4: DFD level-0 Diagram 11

Figure 5: DFD level-1 Diagram 12

[Figure 6: DFD level-2 (Chat-Bot) Diagram 13](#_bookmark13)

[Figure 7: DFD level-2 (User) Diagram 13](#_bookmark14)

[Figure 8: DFD level-2 (Chat Message) Diagram 14](#_bookmark15)

[Figure 9: Gantt Chart 15](#_bookmark17)

[Figure 10: Walkthrough and Login Page 19](#_bookmark21)

[Figure 11: Discover and Community page 19](#_bookmark22)

[Figure 12: Profile and Group page 20](#_bookmark23)

[Figure 13: Doctor page 20](#_bookmark24)

**Abbreviations**

|  |  |
| --- | --- |
| DFD | Data Flow Diagram |
| UI | User Interface |
| API | Application package interface |
| ER | Entity Relationship |
| EHR | Electronic Health Record |
| CRUD | Create , Read , Update , Delete |
| Etc. | Et cetera |

# Introduction

MindMend is a mobile application designed to help individuals manage their mental stress and well-being. This app provides support and tools for people who are struggling with anxiety, stress, and other mental health issues.

The MindMend Project App is a user-centric, mobile application developed as part of the broader MindMend Project initiative. Designed to provide accessible and personalized mental health support, the app aims to empower individuals to take charge of their emotional well-being and improve their overall mental health.

One of the main features of MindMend is Meditation and mindfulness exercises and its mood tracker, which offers a variety of guided meditations and mindfulness exercises that can help users to reduce stress and anxiety, improve focus, and cultivate a sense of calm and also allows users to monitor their emotions and track their moods over time. This can be helpful in identifying patterns and triggers that may be contributing to their mental health issues, and in developing coping strategies to manage these challenges.

Based on the results of the analysis, the app offers personalized recommendations for mental health resources and tools. These recommendations may include self-help articles, guided meditations, coping strategies, mindfulness exercises, and curated mental health content.

The app also provides community support which includes a community feature that allows users to connect with others who are also using the app. This can provide a sense of support and accountability, and allow users to share tips and strategies for managing stress and anxiety.

The MindMend Project App is designed with a user-friendly interface, making it easy for individuals of all ages and technological backgrounds to navigate and utilize its features. The app's intuitive layout ensures a seamless experience, encouraging regular use and engagement.

Tracking your mental health progress over time with the app's built-in tracking feature. And, also Gaining valuable insights into your emotional well-being and the effectiveness of the strategies you implement.

Understanding that mental health is interconnected with various aspects of our lives, the MindMend Project App takes a holistic approach to well-being. Beyond addressing specific mental health concerns, the app also includes resources and guidance on stress management, mindfulness, nutrition, physical activity, and sleep hygiene. By addressing the whole person, we aim to empower you to make positive changes that contribute to your overall mental and physical health.

Whether user are seeking guidance during a challenging moment or looking for regular check-ins, our app provides real-time support. With instant access to self-help tools and the ability to schedule virtual sessions with therapists, user are never alone on your mental health journey.

Overall, MindMend is a valuable tool for anyone looking to improve their mental stress and well-being. With its range of features and user-friendly interface, it is a great choice for those who are new to mental health management, as well as those who are looking for additional support on their journey towards better mental health.

The MindMend Project is a groundbreaking initiative that seeks to revolutionize the landscape of mental health. Through its innovative mobile application, the MindMend Project App, it empowers individuals to proactively address their mental well-being.

With a mission to mend minds and foster a brighter future for mental health, the MindMend Project invites everyone to join the movement towards a more understanding, empathetic, and supportive world. Together, we can create a society where mental health is valued, nurtured, and given the attention it deserves.

# Problem Statement

Mental health issues such as anxiety, depression, and stress are prevalent in today's world. People often struggle to find adequate support and resources to manage their symptoms.

* Traditional therapy can be expensive and time-consuming, making it inaccessible to many individuals.
* Additionally, many people may feel hesitant or ashamed to seek help due to the stigma associated with mental health issues.
* Many individuals experience challenges in finding effective mental health resources that cater to their specific needs and preferences.
* This can lead to frustration, confusion, and a lack of progress in their mental health journey.

The MindMend app aims to address these issues by providing an accessible and affordable platform for individuals to receive mental health support. The app offers a range of features such as mood tracking, guided meditations, journaling, and connection with other communities and friends. By providing these tools and resources, the app hopes to empower individuals to take one step ahead towards improving their mental stress.

# Objectives

The main objectives of this project are:

* + Creating a community-driven platform for peer support and mental health advocacy.
  + Providing a platform for individuals to improve their mental health and well- being through various features
  + Promoting mental health awareness and education to reduce stigma and increase understanding.
  + To help user to analyse their thoughts and track their mood
  + To recommend different exercises and workouts according to user’s mental status.

# Background Study

With the rise of technology, everything happens with just a click. Every business from different sectors is changing to a digital platform or doing things in digital format. Everything is upgrading with time.

The field of mental healthcare has seen significant advancements in recent years, especially with the emergence and integration of technology. MindMend applications, also known as mental health apps or digital mental health tools, have gained popularity due to their accessibility, convenience, and potential to complement traditional forms of mental health treatment.

The usage of Technology is assisting individuals in making better use of it as they adjust their lifestyle to evolving technology in an age where everything is digital. With the advancement of technology and the modernization of society, individuals now favor digital data storage over manual record keeping. Due to the lack of technologies, People often struggle to find adequate support and resources to manage their symptoms.

We have researched different mental health app and other online websites to understand the workoing mechanism of the system and so to analyze the user feedback towards those app. We researched app’s such as MoodFit, Fitify, Intellect, Voice etc. During our research we found that these apps are easy to use, it has user friendly interface but while studying some of the features of the app, we found that they are less productive and doesnot address the user real problem.

In most of the app, users problems and mood are analyzed based on a list of questionarie. A list of question may not address user real problem. And also, after filling all the answers, the app ask to choose a plan to get access to their report and suggestion as well as feedback from the system . This may be costly for the user.

Similarly, We also inteviewed some people and asked them about their problem and also asked them with whom they can share their problem without any hesitation. Later we found that, most of the user could not share their problem and anxiety to anyone, including their family and friends. They feel scared as well as ashamed.

# Requirement Document

Documentation is done to give a complete and accurate description. Requirement document contains the specific instructions for creating and managing certain project. The purpose of the project is to describe the different functional and non-functional requirement for **MindMend** application . This document is used to identify the purpose of the project and helps in different phases of development while making application. The clearly defined requirement document can easily improve communication between users and application.

**Tools and software required:**

**Hardware used in development :**

Processor: Intel Core i7 2.60 GHz

Memory: 8 GB

Hard Disk : 1 TB

**Software Used in development :**

Operating System: Android, Window

Database: PostgreSQL

Frontend: React native, Next JS

Backend: Java Spring Boot

## Functional Requirements:

Functional requirements describe the specific actions and behaviours that a system must be able to perform, as well as the desired outputs.

Few of the functional Requirements are:

* + 1. User Registration and Authentication: The system should allow users to create accounts, log in securely, and manage their profiles.
    2. Assessment and Evaluation: The platform should provide various assessment tools and tests to evaluate the user's mental health, cognitive abilities, or specific conditions.
    3. Goal Setting and Tracking: Users should be able to set goals related to their mental well-being and track their progress over time.
    4. Therapy and Intervention Tools: The system should offer a range of therapeutic tools, techniques, or interventions to assist users in managing their mental health or cognitive challenges.
    5. Communication and Support: Users should be able to communicate with professionals, therapists, or support groups through messaging, video calls, or forums.
    6. Progress Reporting and Analytics: The system should generate reports and provide analytics to track the user's progress and identify areas for improvement.
    7. Notifications and Reminders: Users should receive timely reminders, notifications, or alerts for assessments, therapy sessions, or goal deadlines.
    8. Data Security and Privacy: The platform should ensure the confidentiality, integrity, and privacy of user data, complying with relevant data protection regulations.

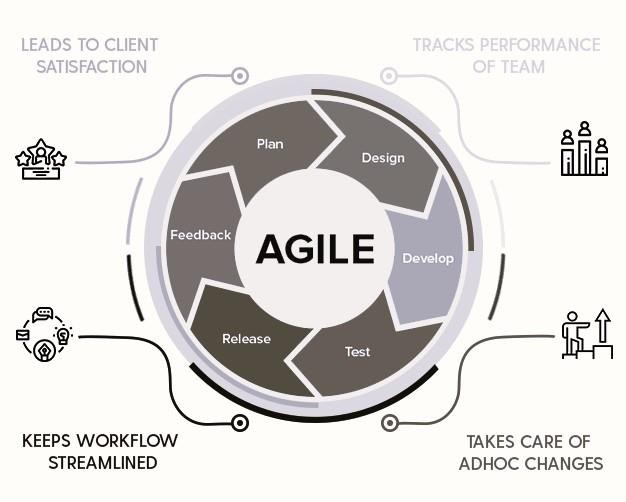
## Non- Functional Requirement

Non-functional requirements describe the system's characteristics or qualities that are not related to a specific function or behaviors. Some of the Non-Functional Requirements are:

* + 1. Usability and User Experience: The system should have an intuitive and user- friendly interface, allowing easy navigation and seamless interactions.
    2. Performance and Scalability: The platform should be capable of handling multiple concurrent users and maintain acceptable response times, even during peak usage periods.
    3. Reliability and Availability: The system should be highly reliable, minimizing downtime and ensuring continuous availability to users.
* Accessibility: The platform should comply with accessibility guidelines, making it usable for individuals with disabilities or impairments.
  + Compatibility: The system should be compatible with a range of devices (desktop, mobile, tablets) and various operating systems and browsers.
  + Security: The platform should implement robust security measures, including encryption, secure data storage, and protection against unauthorized access or data breaches.
  + Integration: The system should allow integration with external services or platforms, such as electronic health records (EHR) systems or third-party applications.

# Methodology

In this project we are using Agile Model for the development of our project. The diagram of iterative model is shown below: (Agile Methodology,)



Agile methodology is a popular approach for software development, and it can be a good fit for developing MindMend. One of the main benefits of Agile methodology is that it allows for changes and updates to be made easily throughout the development process. This is important for an app like MindMend, which may need to adapt to user feedback or changing market conditions. Other advantages of using Agile methodology are:

Flexibility: Agile methodology allows for changes to be made to the project as it progresses, providing greater flexibility in responding to changes in user needs and market demands.

* Team collaboration: Agile methodology emphasizes close collaboration
* between the development team, stakeholders, and customers.
* Transparency: Agile methodology encourages regular communication and reporting of project progress, making the development process more transparent to all stakeholders.
* Continuous improvement: Agile methodology is based on continuous improvement, with regular review and retrospection of the project process and outcomes.

## Requirement Analysis:

We gather all the information regarding our project development from different ongoing app and websites such as MoodFit, MoodShift CBT and so on. In these apps, they have used user friendly interface to quickly enable users’s interest.

We can also use user friendly interface. Requirement analysis is critical to the success or failure of a system . The requirement should be documented , actionable, measurable. So, our team have collected some information that will help us to meet out objective.

## Risk Analysis:

During our project development we have encountered many problems and errors. To solve these error we researched and analyzed various online debugging communities like stake overflow, etc.

# System Analysis and Design

## 

## 7.1 Class Diagram

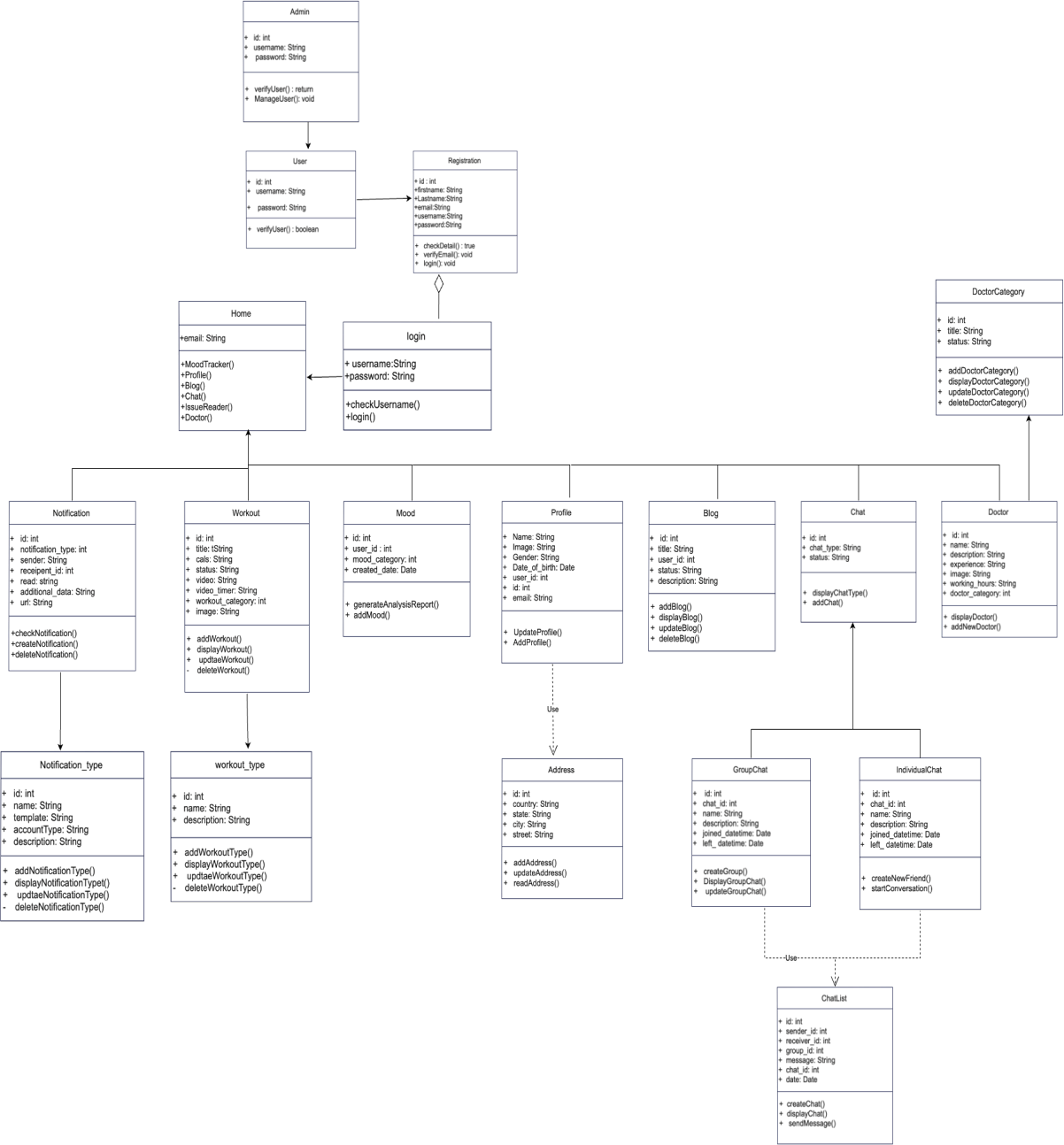


Figure7. 1: Class Diagram

## 7.2 ER Diagram

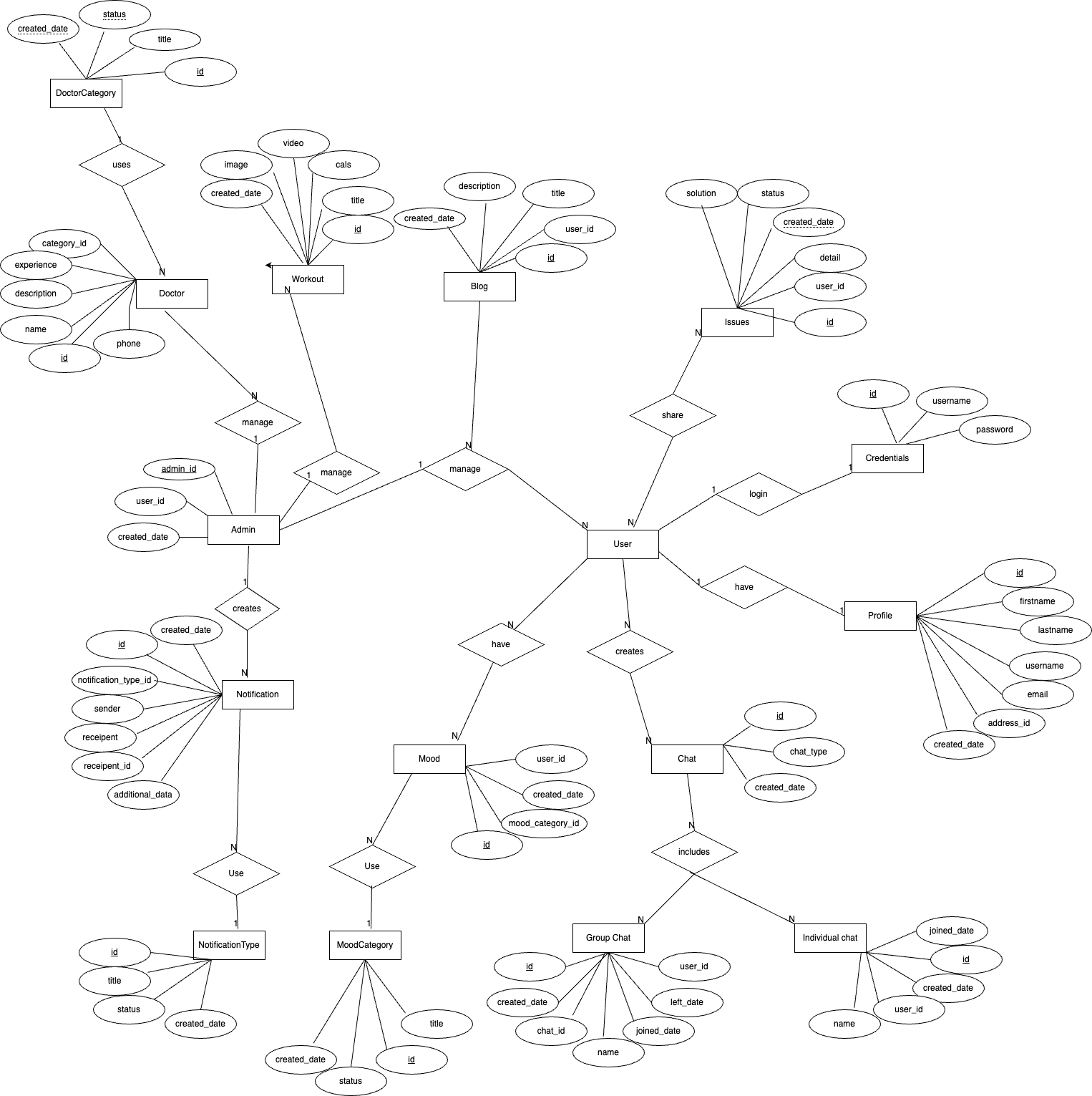


Figure 7.2: ER Diagram

## 7.3 Data Flow Diagram

### 7.3.1 DED level-0

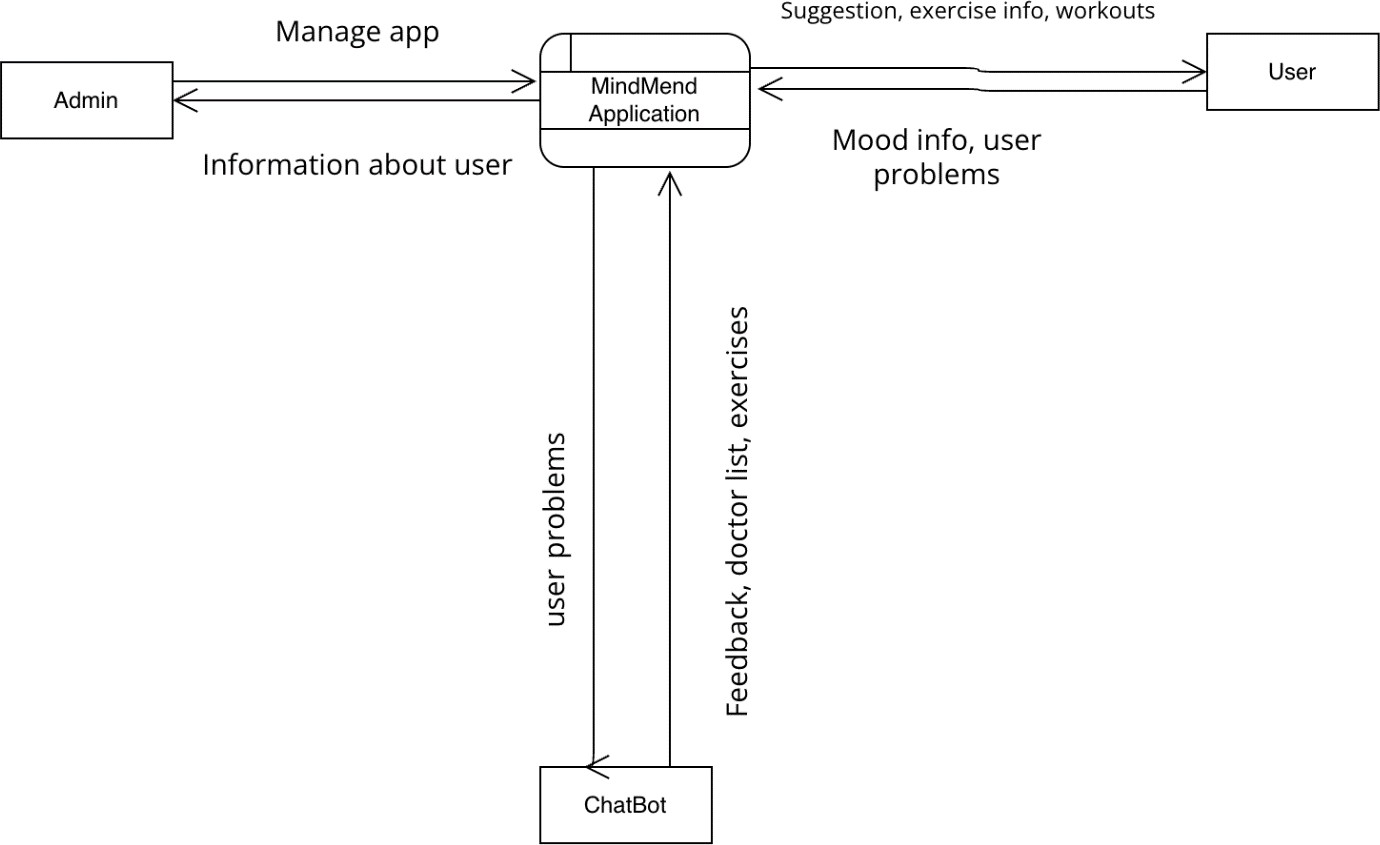


Figure 7.3.1 : DFD level-0 Diagram

### 7.3.2 DFD level-1

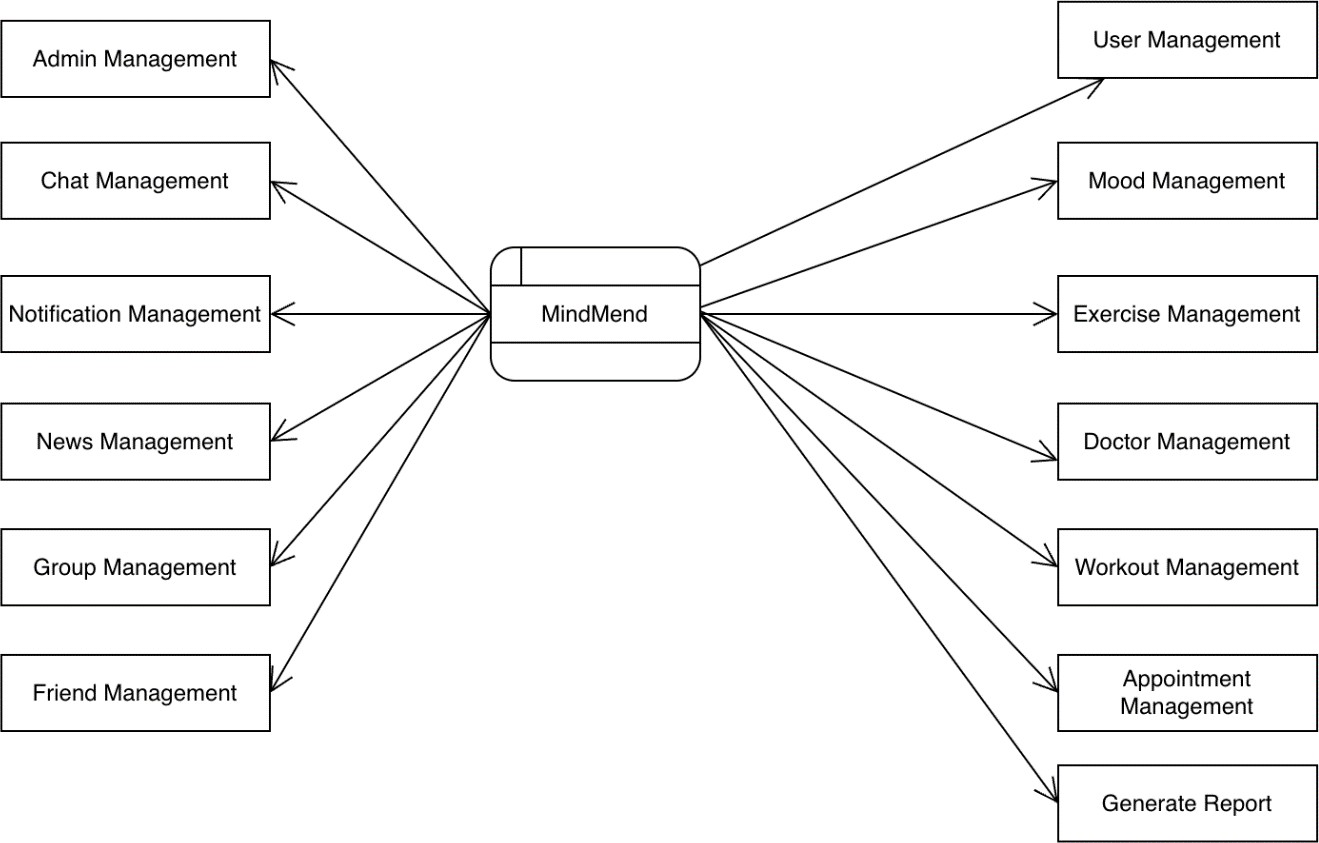


Figure 7.3.2: DFD level-1 Diagram

### 7.3.3 DFD level-2

### ChatBot

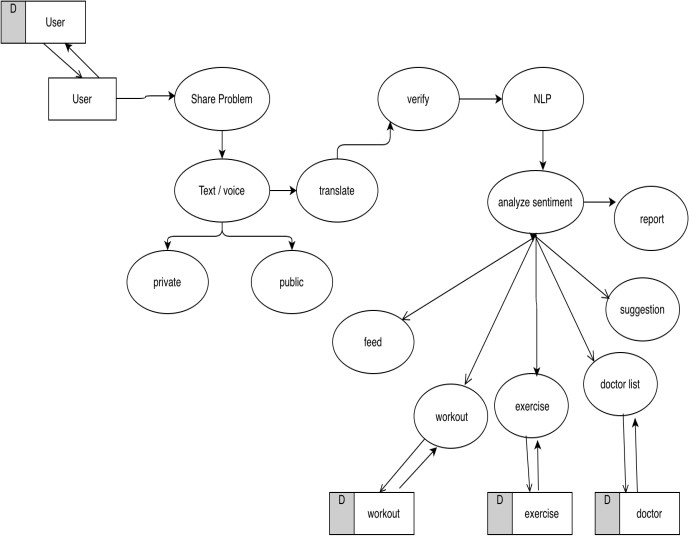


Figure 7.3.2 : DFD level-2 (Chat-Bot) Diagram

### USER

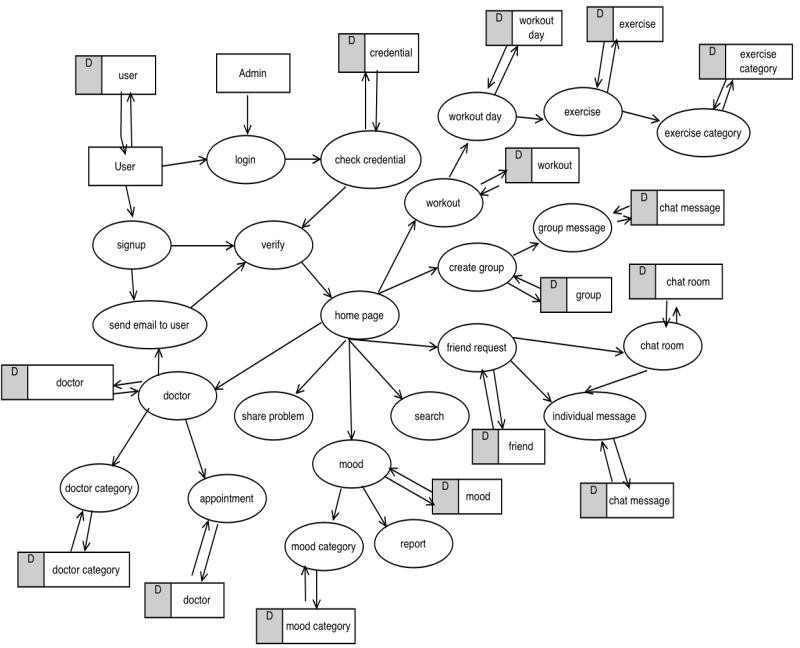


Figure 8: DFD level-2 (User) Diagram Diagram

### Chat Message

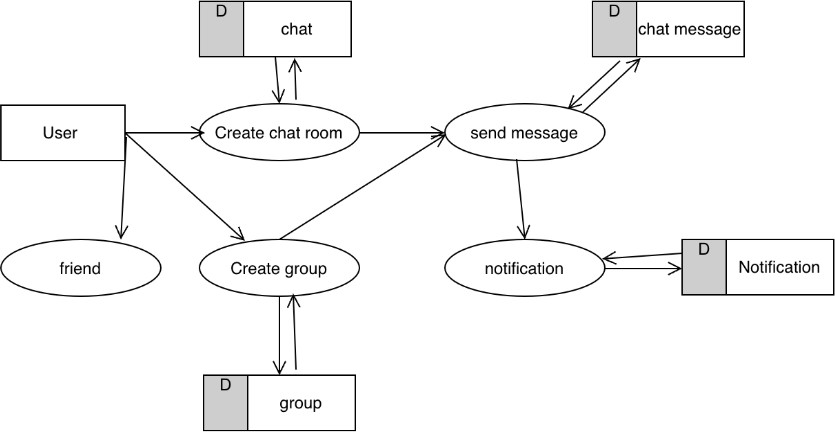


Figure 9: DFD level-2 (Chat Message) Diagram

# Work Assigned

The different task identified for the compilation of the project were divided among the team members, with accordance to their talent and capabilities, and performed accordingly. Later they were integrated together to form a single unit. The division of task between four of us is tabulated below.

|  |  |  |  |
| --- | --- | --- | --- |
| S.N. | Name of the member | Work assigned | Remarks |
| 1. | Sapna Baniya |  | All work accomplished successfully. |
| 2. | Mahima Sharma |  | All tasks accomplished successfully. |
| 3. | Nabraj Paudel |  | All logic and coding complied  Successfully. |

Table 9‑1 Work assign

# Testing

The procedure of software testing is also known as STLC (Software Testing Life Cycle) which includes phases of the testing process. The testing process is executed in a well-planned and systematic manner. All activities are done to improve the quality of the software product.

Throughtout all the design and development phases, we have been performing unit test on each component and function, so that it can work properly when we integrate it with the whole system.

Since, we have used the spiral model, we have done multiple times testing at the end of each sprint. So that the component and function developed dring the sprint can be error free and can work properly. For performing unit test in spring boot , we have used Mockito and JUnit.

We actually have performed the testing based upon the various phases of the STLC. The six major phases are:

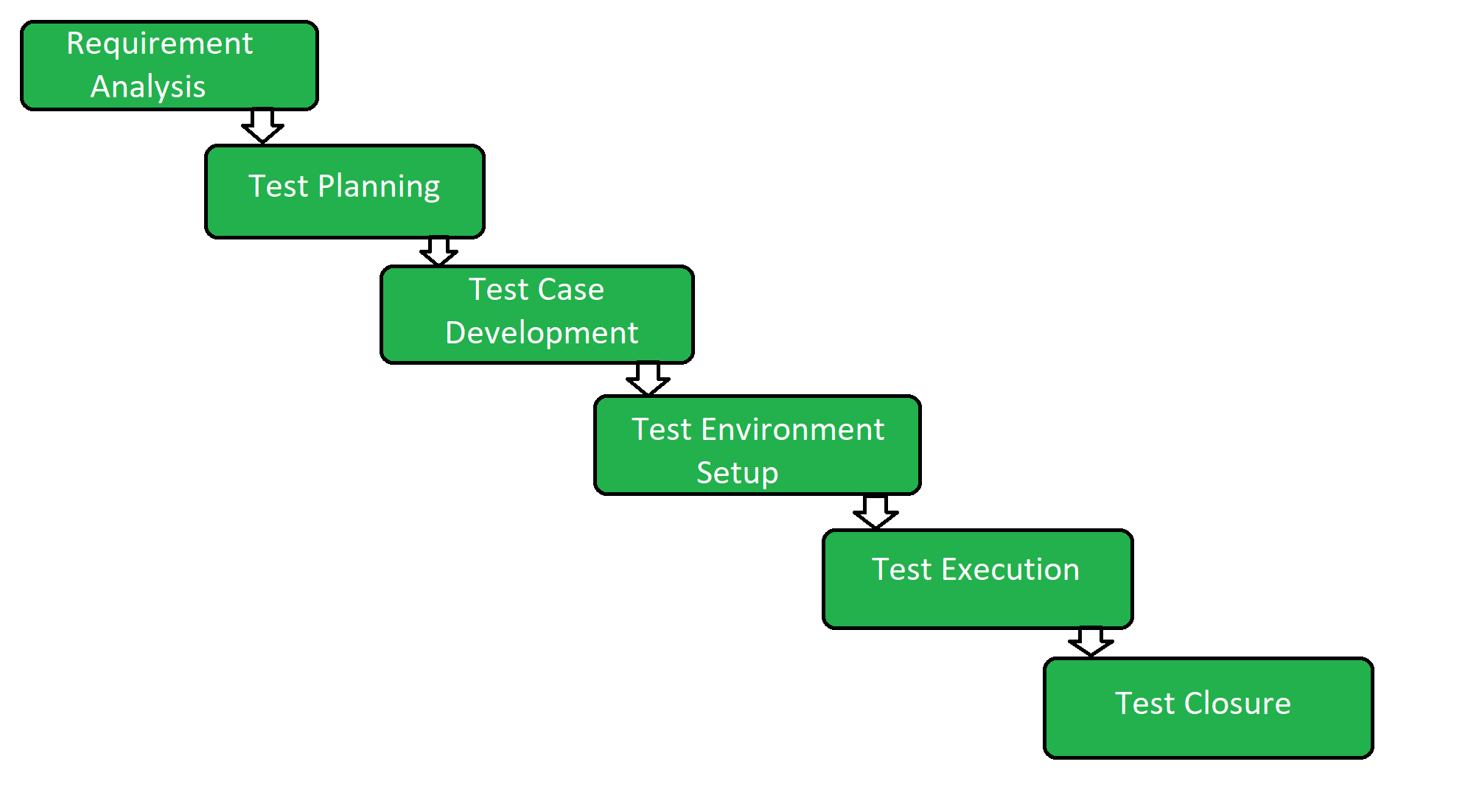


Figure 10‑1 Software Testing Life cycle

* **Requirement Analysis**: Requirement Analysis is the first step of Software Testing Life Cycle (STLC). Our team consulted with hospital, Doctors and other team members to clarify requirements. These requirement are functional or non-functional.
* **Test Planning or Execution**: Test Planning is most efficient phase of software testing life cycle where all testing plans are defined. The strategy for testing was planned and approach of forward and backward testing was done. This strategy included tootls needed, testing steps and roles.
* **Test Case Development:** The test case development phase gets started once the test planning phase is completed. In this phase our team noted down the detailed test cases. Each test case defined test inputs, procedures, execution and result. Test coverage was somehow as expected.
* **Test Environment Setup**: Test environment setup is the vital part of the STLC. Basically test environment decides the conditions on which software is tested. This is independent activity and can be started along with test case development. In this process the testing team is not involved either the developer or the customer creates the testing environment.
* **Test Execution**: After the test case development and test environment setup test execution phase gets started. Once environment are deployed, smoke test are performed to ensure that enviroment are workoing as expected.
* **Test Closure**: This is the last stage of STLC in which the process of testing is analyzed. Once testing is completed, matrix, reports are documented. Expected test results are compared to actual and results are gathered to report back to developer.

## 9.1 Test Case:

|  |
| --- |
| **Project Name: MindMend (Test Case No :-1)** |
| **Test Case Id**: TC001, TC002, TC003, TC004 |
| **Test Priority:** Medium |
| **Module Name:**  Login modules of MindMend |
| **Test Title:** Module testing of Login function |
| **Test Executed By:** Sapna Baniya |
| **Pre-condition:**  The user must have username and password previously registered |
| **Description:** User must be able to login with predefined username and password |

**Test Steps:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Case Id** | **Test Cases** | **Test Steps** | **Expected Results** | **Test Data** | **Actual Data** | **Status** |
| 1 | TC001 | Verification | Go to Login page | System displays user home page | UserName = sapnaBaniya  password= Admin@123 | User is navigated to home page | **pass** |
| 2 | TC002 | Invalid Username/Password | Enter valid username and password  Click on login button | Sytem displays  Invalid username or password | UserName = sapna  password= hi | Error in successfull login | **Pass** |
| 3 | TC003 | Button Click | Click on login button | Successful clck | Navigate to dashboard | Success | **Pass** |
| 4 | TC004 | Forgot Password | Provide valid username / email before clicking forgot password | Authenticate the user and change the password | UserName = empty  password = empty | Retrieve from user account | **Pass** |

|  |
| --- |
| **Project Name: MindMend (Test Case No :-2)** |
| **Test Case Id**: TC005, TC006, TC007 |
| **Test Priority:** Medium |
| **Module Name:**  Registration modules of MindMend |
| **Test Title:** Module testing of Registrationfunction |
| **Test Executed By:** Sapna Baniya |
| **Pre-condition:**  The user must have valid username and password, Email id must not be registered before and also the email id should be valid. |
| **Description:** User must be able to register into the app with valid username and password |

**Test Steps:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Case Id** | **Test Cases** | **Test Steps** | **Expected Results** | **Test Data** | **Actual Data** | **Status** |
| 1 | TC005 | Registration | Clcik on register button and fill information | All the fields are filled and proceed to verification of details | UserName =  Ram123  password= Ran@1234 | As expected | **pass** |
| 2 | TC006 | Registration of new user with existing data | Clcik on register button and fill information of previously registered data | Display user account already exist | UserName = sapna  password= hi | Error in successfull creation and results user already exist | **Pass** |
| 3 | TC007 | Verify with email | Register button send link in the given email  goto email and click on the link to verify the user | Registration successful message will be displayed | Email: test@gmail.com | Success | **Pass** |

|  |
| --- |
| **Project Name: MindMend (Test Case No :-3)** |
| **Test Case Id**: TC008, TC009, TC0010, TC0011 |
| **Test Priority:** Medium |
| **Module Name:**  Login modules of MindMend |
| **Test Title:** Module testing of Admin login function |
| **Test Executed By:** Sapna Baniya |
| **Pre-condition:**  The user must have username and password previously registered |
| **Description:** User must be able to login with predefined username and password |

**Test Steps:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Case Id** | **Test Cases** | **Test Steps** | **Expected Results** | **Test Data** | **Actual Data** | **Status** |
| 1 | TC008 | Verification od admin login | Go to Login page in web | System displays admin home page | UserName = admin  password= Admin@123 | User is navigated to home page | **pass** |
| 2 | TC009 | Invalid Username/Password | Enter valid username and password  Click on login button | System displays  Invalid username or password | UserName = sapna  password= hi | Error in successfull login | **Pass** |
| 3 | TC0010 | Button Click | Click on login button | Successful clck | Navigate to dashboard | Success | **Pass** |
| 4 | TC0011 | Forgot Password | Provide valid username / email before clicking forgot password | Authenticate the admin and change the password | UserName = empty  password = empty | Retrieve from admin account | **Pass** |

|  |
| --- |
| **Project Name: MindMend (Test Case No :-4)** |
| **Test Case Id**: TC0012 |
| **Test Priority:** Medium |
| **Module Name:**  Selecting user mood |
| **Test Title:** Module testing of Mood reading function |
| **Test Executed By:** Sapna Baniya |
| **Pre-condition:**  The user must be logged in and the mood category should be available |
| **Description:** User can choose a mood category according to their mood |

**Test Steps:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Case Id** | **Test Cases** | **Test Steps** | **Expected Results** | **Test Data** | **Actual Data** | **Status** |
| 1 | TC0012 | User should be logged in | Select the mood | System displays  successful message | Mood: Happy | as expected | **pass** |

|  |
| --- |
| **Project Name: MindMend (Test Case No :-5)** |
| **Test Case Id**: TC0013, TC0014 |
| **Test Priority:** Medium |
| **Module Name:**  Share User Problem |
| **Test Title:** testing of Share problem function |
| **Test Executed By:** Sapna Baniya |
| **Pre-condition:**  The user must be logged in and the user should provide detail infromation of their problem or stress |
| **Description:** User can share their stress or problem with the app |

**Test Steps:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Case Id** | **Test Cases** | **Test Steps** | **Expected Results** | **Test Data** | **Actual Data** | **Status** |
| 1 | TC0013 | User should be logged in | Go to share problem page  Enter the problem you are facing | System analyses the problem and displays a list of doctors, exercises  And also display a list of suggestion for the user | Problem= I am facing problem while interecting with other people | as expected | **pass** |
| 2 | TC0014 | Empty problem | Enter the problem blank | Error message ie. Problem cannot be empty | Problem = “ ” | Error message | **Pass** |

|  |
| --- |
| **Project Name: MindMend (Test Case No :-6)** |
| **Test Case Id**: TC0015, TC0016 |
| **Test Priority:** Medium |
| **Module Name:**  Add Doctor list |
| **Test Title:** testing of add doctor list function |
| **Test Executed By:** Sapna Baniya |
| **Pre-condition:**  The user must be logged in and should be assigned the role to add doctor list and the user should provide detail infromation of doctor |
| **Description:** Fill the detailed information of the doctor and click add |

**Test Steps:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Step** | **Test Case Id** | **Test Cases** | **Test Steps** | **Expected Results** | **Test Data** | **Actual Data** | **Status** |
| 1 | TC0015 | Search for doctor category | Go to add doctor page and click on  doctor category dropdown and select one of them. | Result of the selected category | doctor category: Physician | selected catgeory displayed | **pass** |
| 2 | TC0016 | Add new doctor to the database | Fill up the add doctor form and press add button | A Successfull message will be shown: New doctor added. The image of the doctor can be uploaded . | Adding of Doctor | as expected | **Pass** |

## 9.2 Summary of the Test Cases:

|  |  |  |  |
| --- | --- | --- | --- |
| **S.N** | **Requirement Description** | **Testcase ID** | **Status** |
| 1 | Login into the system | TC001, TC002, TC003, TC004 | TC001-pass  TC002-pass  TC003-pass  TC004-pass |
| 2 | Registration to the system | TC005, TC006, TC007 | TC005-pass  TC006-pass  TC007-pass |
| 3 | Admin login to the system | TC008, TC009, TC0010, TC0011 | TC008- pass  TC009- pass  TC0010- pass  TC0011- pass |
| 4 | Mood selection | TC0012 | TC0012- pass |
| 5 | Share problem | TC0013, TC0014 | TC0013- pass  TC0014- pass |
| 6 | Add Doctor | TC0015, TC0016 | TC0015- pass  TC0016- pass |

# Project Results:

Finally, going through a series of sprint consisting of different software development life cycle and testing module, we were able to implement the project. Some of the feature are still under development. So, we have kept them as future enhancement of the project.

We have developed a project using Java spring boot, React Native and NextJS language. We have listed the results, based on the following:

* What are the functions of the project?
* Our project has various functions to provide. Some of the functions are:
* Provide the user to select mood category based on their mood and view the analysis graph.
* Provide the problem sharing facilities so that user can share their problem and release their stress.
* Show the Exercises and Workouts detail to improve user health and reduce stress and anxiety.
* Provide the management facility to the admin so that they can manage all the overall system that may include managing user, doctor, mood, exercise, chat, user role, authentication, analysis.
* Provide the chat facility to the user.
* Problems solved by the project

We have tackled many emerging problem during the process of development. There were various problem in the existing app such as user could not share their real problem, they couldnot get timely suggestion and help that they needed and so on. However, our system have been able to track down some of the major problem like:

* Problem Sharing: Our app provides a user interface to share the real problem of the user , so that they can feel free and also can get some suggestions and help .
* Mood Tracking and Analysis: Our system also provide the feature to track day to day mood of the user . and on the basis of their feedback , it analyses and provide the graph so that user can understand and solve their stress on time.

# Future Enhancements

The system that was developed is capable of many different things. The project MindMend System concept is a challenging one . Because the system must be adjusted in accordance with the need of the users, this project can also be used professionally, to build a publishable software.

In the development of the project “MindMend” we have tackled with many obstracles and we solved then through diference online sources. Due to the project time limit we were unable to integrate many services that we want in the app as well as in web bases system. Some of the services that will the integrated in our application are:

* Allow user to share their thoughts in the community or group
* Allow user to view analysis chart based on different prospective
* Allow user to share news feed
* Allow admin to manage chat
* Allow admin to manage exercises
* Allow user to book appointment online and also to consult with doctor through online.

These are some services that we will integrate in our project to make it more astonishing. Another services that we want to integrate in our project is online payment for booking doctor appointment.

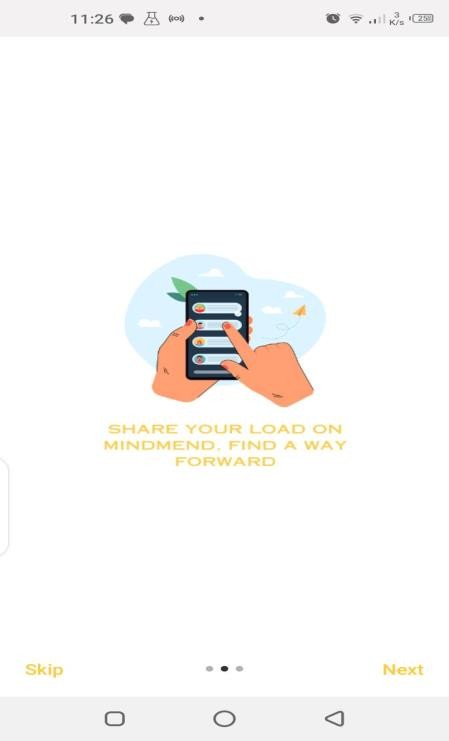
# Conclusion:

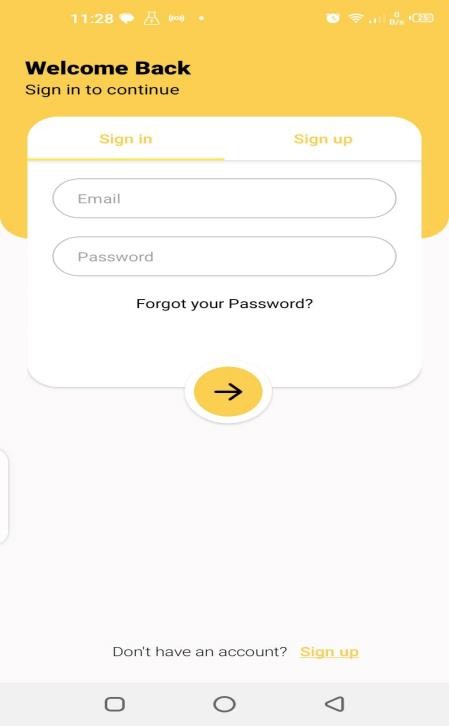
The MindMend Project is a visionary and innovative initiative that aims to revolutionize the field of mental health and well-being. By combining cutting-edge technology, scientific research, and a collaborative approach, the project strives to address the challenges associated with mental health issues. Through its innovative mobile application, the MindMend Project App, it empowers individuals to proactively address their mental well-being. With a mission to mend minds and foster a brighter future for mental health, the MindMend Project invites everyone to join the movement towards a more understanding, empathetic, and supportive world. Together, we can create a society where mental health is valued, nurtured, and given the attention it deserves. From the admin point of view, the admin will be able to control all the overall operation of the system, from analyze the operation through graph and charts to managing all the records and information of the system.

Similarly, from the user point of view, the user will be able to track their mood, share their problem and issues to the app as well as to the community and friends, they will also be able see their progress and give more effort and importance to their mind and mental health.

# Annexures

App:



Figure 10: Walkthrough and Login Page

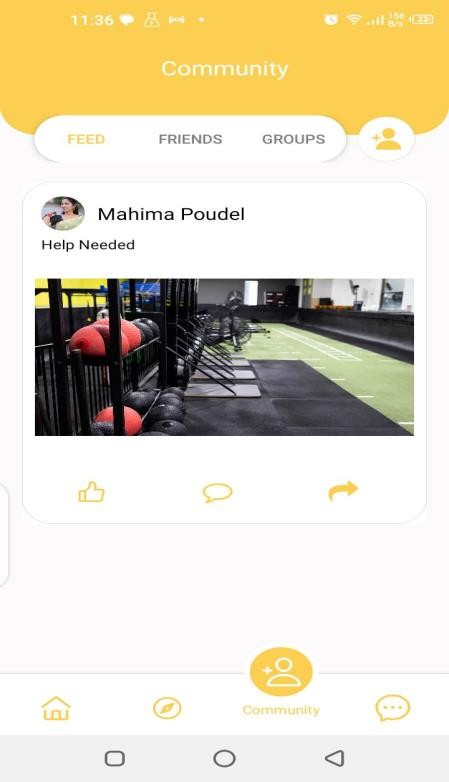
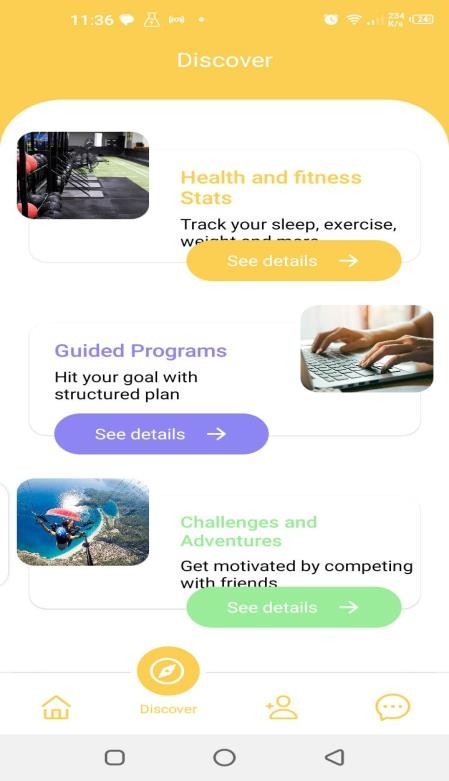


Figure 11: Discover and Community page

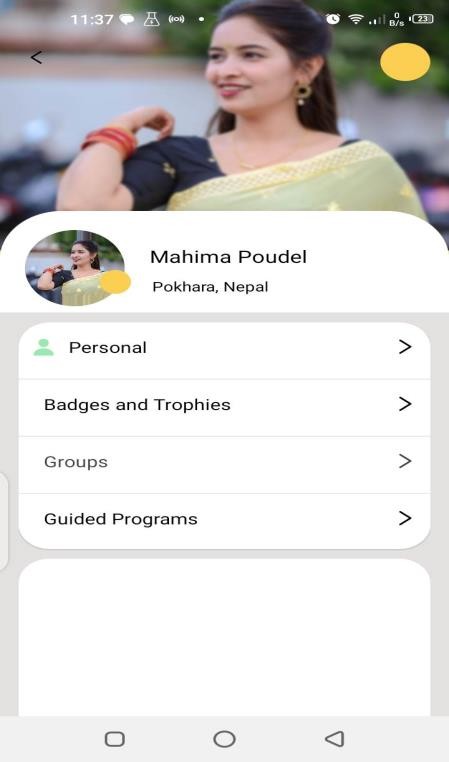
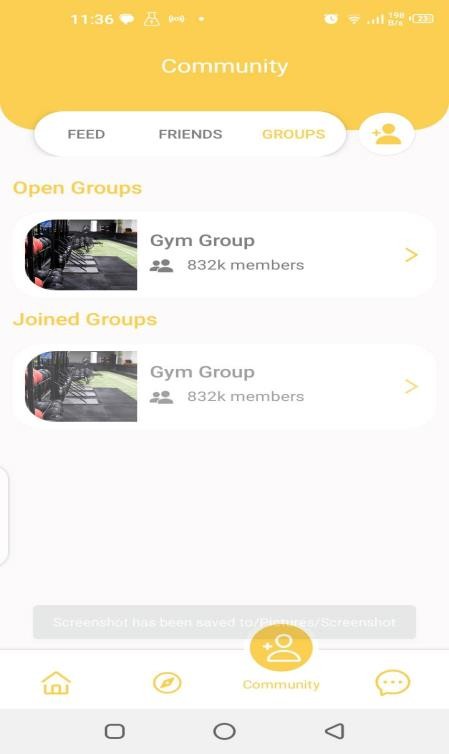
 

Figure 12: Profile and Group page

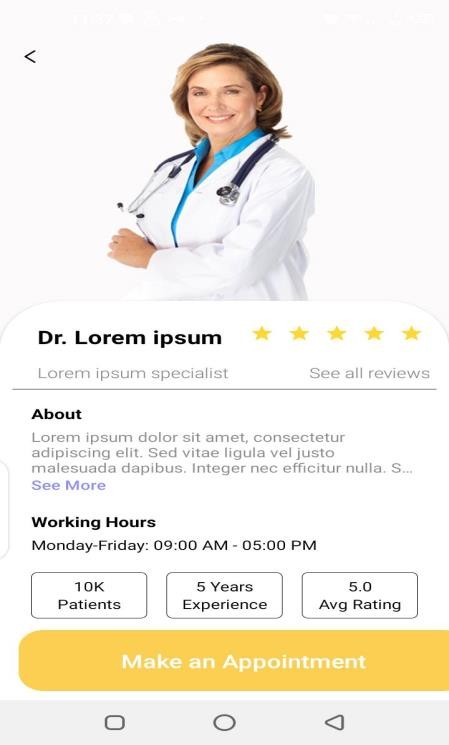


Figure 13: Doctor page

Web:

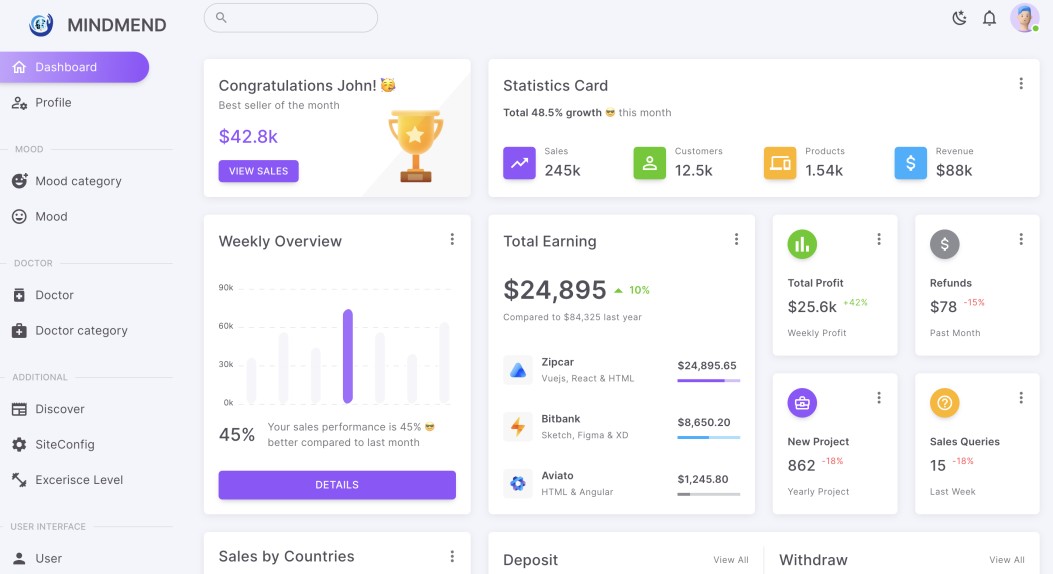


Figure 14: Admin Dashboard page

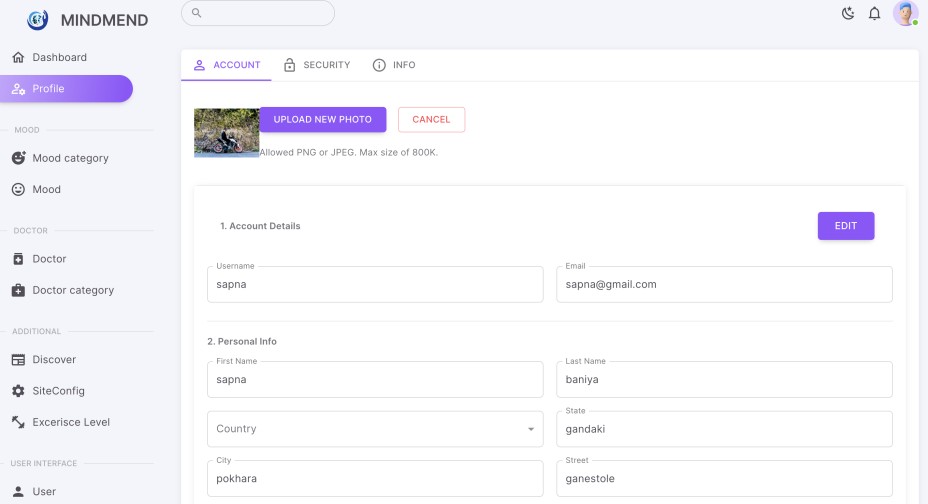


Figure 15: Profile page

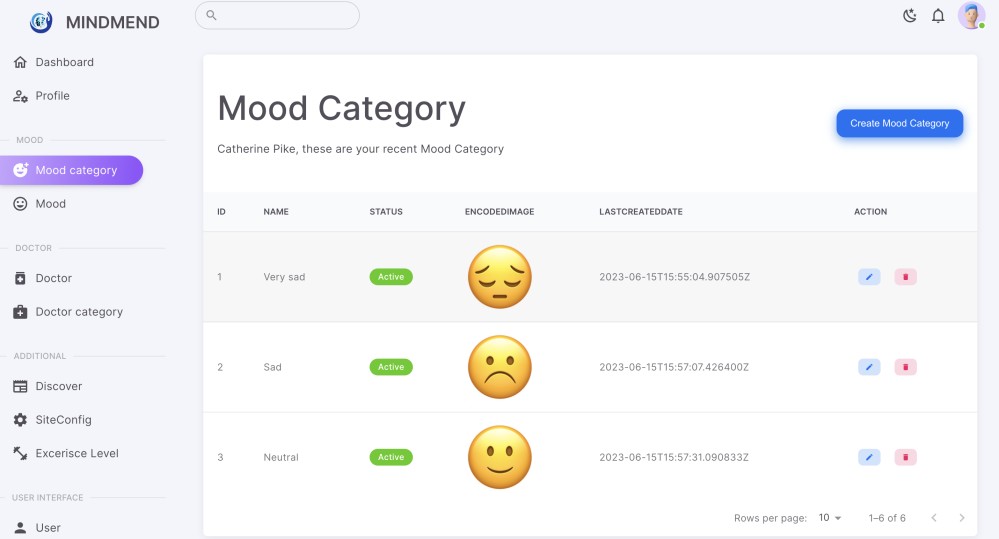


Figure 16: Mood Category page

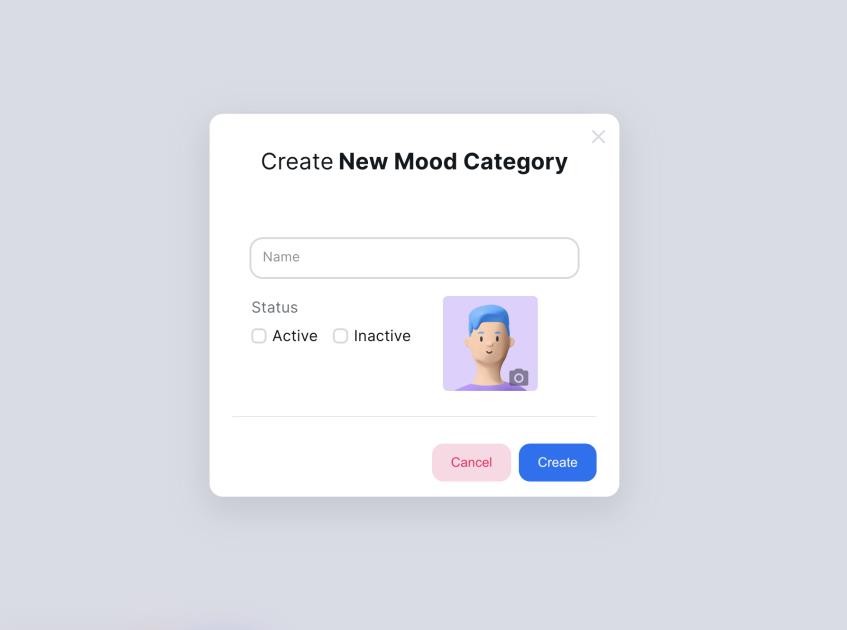


Figure 17: Create Mood Category page

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