A

Project Report

On

Peace: The Mental Stability

Submitted to

G H Raisoni University, Amravati

School of Science

In partial fulfilment for the requirement of the Degree of

Master of Computer Application

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2024-25

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CERTIFICATE

This is to certify that the project titled "Peace: The Mental Stability" has been submitted by Samreen Bhinder and Yash Choudhury in partial fulfilment for the requirement of the Degree of Master of Computer Application MCA II Year, Semester III. This is an original work carried out by him under guidance of Prof. [name].

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Declaration

I	hereby declare that the work presented in this project entitled
"Peace: The M	Mental Stability" was carried out by us under the supervision
of Prof. [name	e]. This work or any part of this work is based on original
work and has	not been submitted by anybody to any University / Institution
for award of a	ny diploma or degree.

Date-

Place-

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Chapter 1 Introduction

Introduction

Mental health therapy is a crucial aspect of maintaining good mental health, yet many individuals face barriers that prevent them from accessing the help they need.

Even though mental health is common and can affect anyone, there is still a great guilt attached. This guilt creates hesitation and shame in seeking help. The acceptance and understanding of mental illnesses has come a far way from where it used to be, but improvements can, and should still be made.

Mental health issues should not be thought of any differently than that of physical health issues. In fact, I believe these two are inseparable. Because the whole body is connected and interwoven, these two cannot be separated. The brain is also an organ just like everything else in the body, If other parts of body can feel pain then the brain can also pain like everything else. When the brain is ill, it is not isolated in just the brain, but instead affects the whole body and the overall wellness. Substance abuse, self-harm, and suicide are very common and dangerous in those with mental health issues. The shame surrounding mental health issues keeps people from getting the help they need to get better and causes them to hide their pain.

As per Science and medicine, there are various factors that can deteriorate an individual's mental health. These factors are classified as environmental factors, emotional factors, physical factors, and of course mental factors. In today's time, emotional factors are the major drivers of negative emotions in individuals. Unhappy relationships, peer pressure, career stress, childhood abuse or trauma, family problems, mishappening with a loved person, loneliness, isolation, social deprivation, lack of acceptance, and various other factors drive negative thoughts in human beings. Thus, it is said that your body and mind are influenced by anything and everything in and around you.

An individual can work on improving his/her mental health by seeking external help and practising a healthy and mindful life. and it is very important to keep your mind healthy and happy because it is the place from where our body works.

Receiving help is the most important thing anyone can do for themselves. But unfortunately, the shame keeps people from getting help. Mental health issues should not be something to be ashamed about or thought of differently. When mental health issues is treated

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equally to other issues, more people will have the courage to get help and better their lives.

In the intricate tapestry of mental health, therapy serves as a beacon of hope, offering guidance, support, and healing to individuals navigating the complexities of their inner worlds. Despite the stigma that may surround it, therapy is a powerful tool for promoting mental wellness, fostering resilience, and empowering individuals to lead fulfilling lives.

Therapy is a positive way to deal with trauma, pain, or any issue you have in life so you can become a healthier, happier, more peaceful person. When you develop coping strategies, learn how to let go of negativity, set boundaries, or deal with certain situations in a positive manner, you can finally start living that full life you've always pictured.

The Mental Stability, will be an journey towards a calmer and more centred you. In today's fast-paced world, mental well-being is more important than ever. Our app holds a promise to provide a safe, supportive, and non-judgemental space for you to explore your thoughts, emotions, and behaviours and also provides you help to overcome your stress and emotions which are uncontrollable. It is designed to help you navigate life's challenges with confidence and strength.

Our mission is to empower you with the tools, resources, and support needed to achieve mental stability and peace of mind. And you should take the first step towards a more peaceful, strong and fulfilling life.

Objective

The objective of the Peace: The Mental Stability project can vary depending on its specific goals and scope. However, in general, an health-related project like this typically aims to achieve the following objectives:

- 1. **Enhance Mental Well-being:** Improve users' mental health by providing resources to manage symptoms, reduce stress, and promote overall well-being.
- 2. **User-Friendly Interface:** Develop a sleek and intuitive user interface that enables users to easily navigate through the platform.

- 3. **Registration and Authentication:** Implement a robust registration and authentication system to securely manage user accounts.
- 4. **Data Security and Privacy:** Implement robust data security measures to keep user information and data confidential.
- 5. **Stigma Reduction:** Help reduce the stigma associated with mental health issues by normalizing seeking help and providing a supportive community.
- 6. **Self-Help Tools:** Equip users with self-help tools and techniques to manage their mental health, such as mindfulness exercises, journaling, and etc...
- 7. **Personalized Support:** It Offer personalized support and guidance to the individual's needs and preferences.
- 8. **Community Building:** Promote a sense of community and belonging among users through assessment, chat rooms, or support groups.
- Mood Tracking: Allow users to record their mood daily or multiple times per day, and provides solution according to mood.





Chapter 2 Preliminary System Analysis

Preliminary Investigation

Brand Identity and Messaging:

- Name: "Peace" is a strong, positive word, directly associated with mental well-being.
- **Tagline:** "The Mental Stability" reinforces the app's core purpose.
- **Brand Messaging:** The app convey's a sense of calm, support, and empowerment.
- **Visual Identity:** A serene color background(blues, greens) and minimalist design can effectively represent the brand.

Target Audience:

- **Primary:** Individuals experiencing mild to moderate anxiety, depression, or stress.
- **Secondary:** Healthcare professionals, therapists, and counselors.

2.1 Identification of Need

The identified needs for the mental therapy application "Peace: the mental stability" are:

- Strong community building features: The app provides a safe and supportive space for users to connect with each other and share their experiences.
- Easy access to mental health professionals: The app should provide easy access to mental health professionals through online consultations and chat.

2.2 Preliminary Investigation

1. Core Features:

- **Guided Meditation:** A range of guided meditation sessions to reduce stress and anxiety.
- **Mood Tracking:** A journal to track daily moods and identify patterns.
- Expert Advice: Access to articles, blogs, and videos from mental health professionals.
- **Community Forum:** A safe space for users to connect, share experiences, and seek support.

2. Monetization Strategies:

• **Free Model:** Offer features for free and is only charged if connected to professional doctor.

3. Potential Challenges and Mitigation Strategies:

• User Privacy and Data Security: Implement robust security measures and transparent data privacy policies.

2.3 Feasibility Study

Technical Feasibility:

- **Platform Compatibility:** The app should be compatible with both IOS and Android platforms to reach a wider audience.
- **Data Security and Privacy:** Robust security measures must be implemented to protect user data.
- User Interface and User Experience (UI/UX): A user-friendly and intuitive interface is crucial for user engagement.
- **Integration with Healthcare Systems:** The app should be able to integrate with existing healthcare systems, if needed.

Economic Feasibility:

- Revenue Streams:
- Free model: Offer basic features for free and charges only if you connect with a professional doctor.
- Partnerships: Collaborate with healthcare providers.

Key Considerations:

User Privacy and Data Security: Implement strong encryption and secure data storage practices.

Ethical Considerations: Adhere to ethical guidelines and avoid providing medical advice.

User Engagement: Continuously update the app with new content and features.

Professional Liability: Ensure that the content provided by mental health professionals is accurate and ethical.

2.4 Need for New System

While "Peace" is undoubtedly a valuable tool for mental health, it's essential to continually evolve to meet the changing needs of users and the advancements in mental health technology. Here are some potential areas where a new system could significantly enhance the app's effectiveness:

1. Personalized Treatment Plans:

- **Tailored Interventions:** Generate personalized treatment plans, including cognitive-behavioral therapy (CBT) techniques, mindfulness exercises, and medication reminders.
- Adaptive Therapy: Adjust treatment plans based on real-time user data and progress, ensuring optimal outcomes.

2. Enhanced Social Support:

- **Community Building:** Facilitate the creation of supportive online communities where users can connect with peers, share experiences, and offer mutual support.
- **Mentorship Programs:** Pair users with experienced mentors who can offer guidance, advice, and encouragement.

3. Real-Time Monitoring and Alert Systems:

• **Symptom Tracking:** Allow users to track their symptoms in real-time, providing valuable insights into their mental health trends.

4. Motivation:

• **Progress Tracking:** Visualize users' progress through personalized dashboards and charts, fostering a sense of accomplishment.

5. Data Privacy and Security:

- **Robust Security Measures:** Implement stringent security measures to protect user data, including encryption and secure data storage.
- **Transparent Data Practices:** Ensure transparency in data collection and usage, providing clear information about how user data is handled.

2.5 Flaws in Present System

While mental health apps like "Peace" can be valuable tools for managing mental well-being, it's important to recognize their limitations and potential drawbacks. Here are some potential flaws:

1. Lack of Personalized Care:

- **Standardized Content:** Apps often rely on pre-programmed content and exercises, which may not adequately address the unique needs and experiences of each individual.
- **Limited Human Interaction:** While apps can provide tools and techniques, they cannot replicate the nuanced understanding and empathy of a human therapist.

2. Privacy and Security Concerns:

- **Data Privacy:** Sharing personal information, including sensitive mental health details, raises concerns about data privacy and security breaches.
- **Confidentiality:** While apps may claim confidentiality, there's always a risk of unauthorized access or data leaks.

To Mitigate These Flaws, "Peace" Could Consider:

- **Hybrid Approach:** Combine app-based tools with limited human interaction, such as text-based counseling or video consultations.
- **Robust Security Measures:** Implement strong encryption and data protection protocols to safeguard user privacy.
- **Clear Disclaimers:** Emphasize the limitations of the app and encourage users to seek professional help when needed.
- **Regular Updates and Maintenance:** Continuously update the app to address bugs, improve user experience, and incorporate the latest research.
- Accessibility Features: Ensure the app is accessible to users with disabilities by providing options like voice commands and screen reader compatibility.

Chapter 3 Project Statement

Project Statement

Project Vision:

To revolutionize mental healthcare by providing accessible, affordable, and effective mental health support through a user-friendly mobile application, "Peace: The Mental Stability."

Project Mission:

To empower individuals to take control of their mental well-being by offering evidence-based mental health tools, resources, and personalized guidance, fostering a community of support and understanding.

Project Goals:

1. Accessibility:

Make mental health support accessible to a wider population, breaking down geographical and socioeconomic barriers.

2. Affordability:

Provide affordable mental health services, making them accessible to individuals of all income levels.

3. Effectiveness:

Offer evidence-based interventions and tools to promote mental well-being and reduce the impact of mental health conditions.

4. User-Friendliness:

Develop a user-friendly and intuitive app interface, ensuring a seamless and positive user experience.

5. Community Building:

Foster a supportive community where users can connect with others, share experiences, and receive encouragement.

Chapter 4 Software Requirement Specification

Software Requirement Specifications

1. Introduction-

- **1.1 Purpose:** This document outlines the functional and non-functional requirements for the "Peace: The Mental Stability" mobile application. The app aims to provide accessible and affordable mental health support, including self-help tools, professional counseling, and a supportive community.
- **1.2 Scope:** This SRS covers the core features and functionalities of the "Peace" app, including user registration, self-assessment tools, personalized treatment plans, mindfulness exercises, community forums, and professional counseling.

2. Overall Description-

- **2.1 Product Perspective:** The "Peace" app will be a mobile application available on both iOS and Android platforms. It will integrate with various third-party services, such as payment gateways and teletherapy platforms.
- **2.2 Product Functions:** The app will provide the following core functionalities:
 - User Registration and Login
 - Self-Assessment Tools
 - Personalized Treatment Plans
 - Mindfulness and Meditation Exercises
 - Community Forums
 - Professional Counseling
- **2.3 User Characteristics:** The target users of the app are individuals seeking mental health support, including those with mild to moderate mental health conditions.

3. Specific Requirements-

3.1 Functional Requirements:

- User Registration and Login:
- Allow users to create accounts using email and password.
- Implement secure password.

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- Provide options for password recovery and account management.
- Self-Assessment Tools:
- Offer a variety of self-assessment tools (e.g., depression, anxiety, stress).
- Provide immediate feedback and personalized recommendations.
- Allow users to track their mental health progress over time.

3.2 Non-Functional Requirements:

- Performance:
- The app should have a fast response time and smooth user experience.
- The app should be optimized for mobile devices.
- Security:
- Implement strong security measures to protect user data.
- Usability:
- The app should have a user-friendly interface and intuitive navigation.

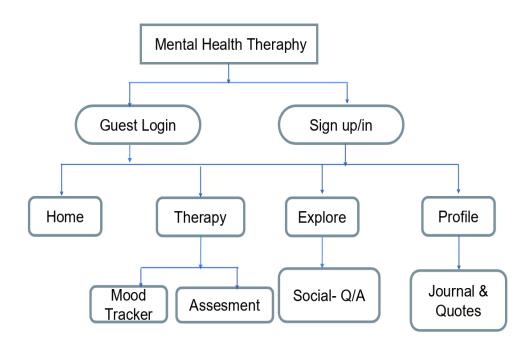
4. Design Constraints-

- Platform Compatibility:
- The app should be compatible with iOS and Android devices.

Chapter 5 Detailed System Analysis

Detailed System analysis

5.1 Data flow Diagram



5.2 Data Structures and Tables

Data structure

A mental therapy application like "Peace" requires a robust data structure to efficiently store and manage user data, therapy sessions, progress tracking, and other relevant information. Here's a proposed data structure, considering the core functionalities of such an app:

User Profile

• User ID: Unique identifier for each user

• Name: Full name of the user

• Email: Email address

Password: Hashed password for security

• Date of Birth: Date of birth

Gender: Gender identity

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- Emergency Contact: Name and contact information of emergency contact
- Medical History: Relevant medical conditions and medications
- Therapy Goals: User's specific goals for therapy

Progress Tracking

- Progress ID: Unique identifier for each progress entry
- User ID: ID of the user
- Mood: Current mood assessment
- Goals: Updated therapy goals

Journal Entry

- entry_id: Unique identifier for each journal entry
- user_id: Foreign key referencing the User table
- entry_date: Date of the entry
- entry_text: Text content of the journal entry
- mood_rating: User's self-rated mood at the time of the entry

Table

1.User preference Table-

User preference table is a table for Login Credentials as well as User's data.

Column_Name	Data_Type	Description
User_id	Integer	Unique identifier for each user
User_name	Varchar	Preferred name of the user
Gender	Varchar	Gender of the user
User_email	Varchar	Email_id for verification

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Password	Varchar	Password for security
DOB	Date	Date of birth
Emergency_contact	Integer	Emergency contact for any kind of emergency occurs

2.Progress Tracking Table-

Progress tracking table is a table which has all the progress made by the user in the application.

Column_Name	Data_Type	Description
User_id	Integer	Unique identifier for each user
Progress_id	Integer	Progress identifier for the progress done by the user
Mood_tracking	Varchar	Mood tracker
User_goals	Varchar	User's own created goals

3. Journal Tracking Table-

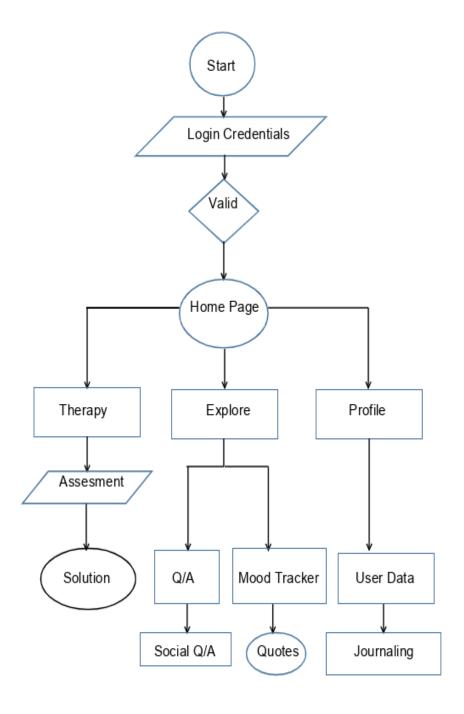
Journal tracking table is a table which keeps the record for the journal writing part in the application.

Column_name	Data_type	Description
Entry_id	Varchar	The serial number of the journal writing
User_id	Varchar	Unique identifier for each user
Entry_date	Date	The date on which the page was created
Entry_text	Text	Text written in the journal

Mood_tracking	Text	Tracks the mood and provide
		qoutes according to the mood

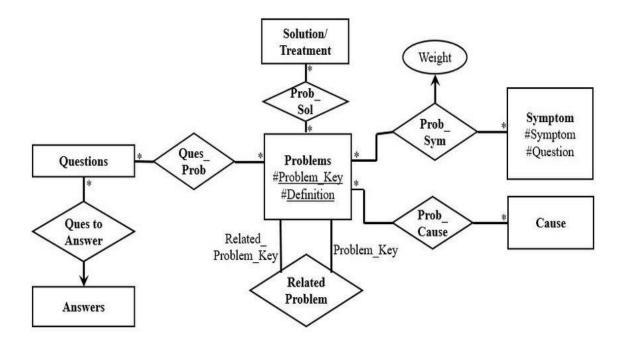
5.3 System Chart or Structure Chart

A **System Chart** or **Structure Chart** visually represents the components of a system and their relationships. For the application, the chart outlines the various modules, their sub-modules, and the flow of data between them. Here's a representation of the system structure:



5.4 Entity-Relationship Diagram

The entity relationship diagram for mental therapy application is represented as:

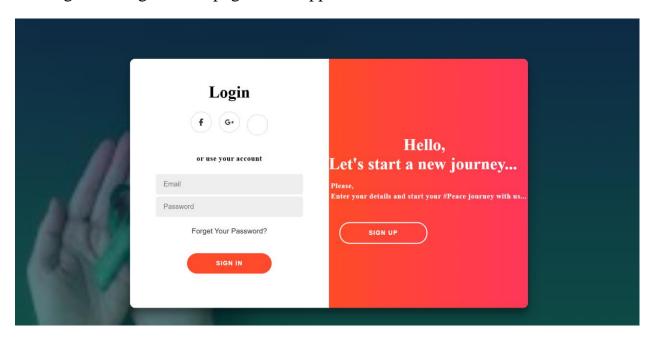


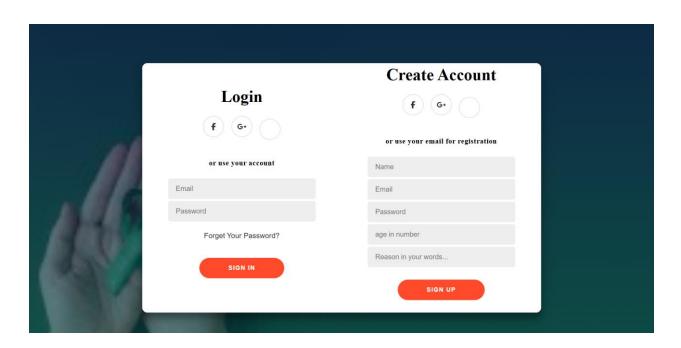
Chapter 6 System Design

System Design

6.1 Form Design

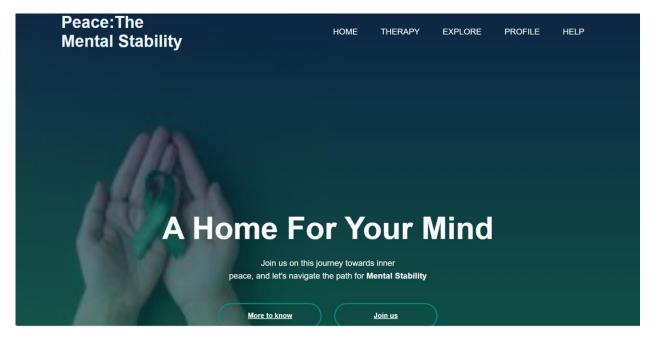
The login and registration page of the application is shown as:-





6.2 Input Screens

The main home page of the application is shown as:-











Chapter 7 Testing and validation Checks

Testing and validation Checks

Testing and validation are crucial to ensure the quality, reliability, and security of a mental health application like "Peace: The Mental Stability." Here are some key areas to focus on:

Functional Testing

- User Authentication and Authorization:
- Verify successful login and logout.
- Test password reset functionality.
- Ensure proper role-based access control for users and therapists.
- Session Management:
- Test session start, pause, and end functionalities.
- Verify note-taking and mood rating features.
- Ensure secure storage and retrieval of session data.
- Journaling:
- Test entry creation, editing, and deletion.
- Verify mood tracking and tagging features.
- Ensure privacy and security of journal entries.

Non-Functional Testing

- Performance Testing:
- Measure response times for various actions (e.g., login, appointment booking, session start).
- Identify performance bottlenecks and optimize the application.
- Security Testing:
- Conduct vulnerability assessments and penetration testing.

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- Implement strong security measures (e.g., encryption, authentication).
- Regularly update and patch security vulnerabilities.
- Usability Testing:
- Conduct user surveys and interviews to gather feedback.
- Observe user behavior to identify usability issues.
- Iteratively improve the user interface and user experience.
- Accessibility Testing:
- Ensure compliance with accessibility standards.
- Test the app with assistive technologies.
- Make the app accessible to users with disabilities.

Validation Checks

- Data Validation:
- Validate user input to ensure data integrity (e.g., email format, password strength).
- Implement data sanitization and validation to prevent security risks.

Additional Considerations:

- Ethical Considerations:
- Adhere to ethical guidelines for mental health apps, including data privacy and confidentiality.
- Implement measures to prevent misuse of the app.

By rigorously testing and validating "Peace: The Mental Stability," you can ensure a high-quality, secure, and effective mental health application that benefits its users.

Chapter 8 Implementation, Evaluation and Maintenance

Implementation, Evaluation and Maintenance

1. Implementation

1. Technology Stack:

- Frontend: Frontend is made using HTML, CSS and Javascript and connected with each other for better look and feel of the application.
- Backend: Backend is made using Java for the backend functioning of the mental therapy application.
- Database: Database i.e SQL is attached with java for storing the data of the user and storing the progress of the user.

2. Core Functionalities:

- User Authentication and Profile:
- Secure user registration and login.
- Profile creation and editing.
- Password reset and security features.
- Therapist Matching:
- Secure Messaging:
- End-to-end encrypted messaging between users and therapists.
- Secure file sharing.
- Journaling and Mood Tracking:
- Customizable journal templates.
- Mood tracking tools and visualizations.
- Integration with wearable devices for automatic data collection.

3. Key Considerations:

• Data Privacy and Security:

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- Adherence to data privacy regulations (GDPR, HIPAA).
- Strong security measures to protect user data.
- Regular security audits and vulnerability assessments.
- User Experience:
- Intuitive and user-friendly interface.
- Accessible design for users with disabilities.
- Personalized experiences based on user preferences and behavior.
- Scalability:
- Ability to handle increasing user base and data volume.
- Scalable infrastructure to accommodate growth.

2.Evaluation

Evaluating a mental therapy application like "Peace: The Mental Stability" requires the multi-faceted approach that considers various aspects, including its clinical efficacy, user experience, and technical soundness. Here's a breakdown of key evaluation criteria:

Technical Soundness

- Reliability:
- Does the app function reliably without frequent crashes or errors?
- Are updates and bug fixes released regularly?
- Performance:
- Does the app load quickly and respond promptly to user input?
- Compatibility:
- Is the app compatible with various devices and operating systems?

Evaluation Methods

3. Maintenance:

Maintaining a mental therapy application requires a multifaceted approach to ensure its functionality, security, and user experience. Here are key aspects to consider:

1. Regular Updates and Bug Fixes:

- Prompt Bug Fixes: Address and resolve bugs promptly to prevent disruptions and negative user experiences.
- Feature Updates: Regularly introduce new features or enhancements to keep the app relevant and engaging.

2. Security and Privacy:

• Secure Authentication: Utilize robust authentication methods (e.g., two-factor authentication) to safeguard user accounts.

3. User Experience and Support:

- User Feedback: Actively gather user feedback through surveys, reviews, and in-app feedback mechanisms.
- Customer Support: Provide responsive and effective customer support channels (e.g., email, chat, phone).

4. Technical Maintenance:

• Scalability: Ensure the app can handle increasing user loads and data volumes.

5. Legal and Compliance:

• Legal Counsel: Consult with legal experts to address any legal issues or concerns.

Chapter 9 Reports and Discussion

Reports and Discussion

Once the data is collected, it's essential to analyze and interpret the results. Here are some key points to consider:

- User Engagement: High user engagement indicates that the app is meeting a need and providing value.
- Clinical Outcomes: Positive changes in symptoms and quality of life suggest the app's effectiveness as a therapeutic tool.
- User Satisfaction: Positive feedback and high ratings reflect user satisfaction with the app's features, design, and support.
- Limitations and Future Directions: Acknowledge the limitations of the study, such as potential biases or small sample sizes. Identify areas for future research and improvement, such as exploring the app's impact on specific populations or incorporating advanced AI features.

Ethical Considerations

- Data Privacy and Security: Ensure that user data is protected and handled ethically.
- Informed Consent: Obtain informed consent from all participants.
- Confidentiality: Maintain strict confidentiality of user information.

Instictive User Interface:

The combination of HTML, and CSS resulted in a clean, modern, and responsive user interface. Users may found this application easy to navigate, with quick access to features according to their needs.

Effective performance:

Ascedancing Java's object-based programming language, which will help in delivering the contents according to the user's need and convenience.

Efficiency in Data Storage:

MySQL provided which will help in giving the application robustness and a scalable solution for storing the user data which will include assessments, mood tracing function.

Chapter 10 Future Scope

Future Scope

The future scope of this app is that it can be helpful to the youth who needs therapy but face a lots of barriers like cost, shame of sharing, fear of confidentiality, limited availability, fear of sharing and lot more. This app will help the youth to be confident to share problem and stress with free mind without any fear and to overcome the stress.

The Future scope can be for mental health therapy application-

1. Advanced AI and Machine Learning:

• Predictive Analytics: Using AI to predict potential mental health crises and offer proactive support.

2. Integration with Wearable Technology:

• Biometric Data Analysis: Analyzing biometric data (heart rate, sleep patterns, etc.) to identify potential mental health issues.

3. Virtual and Augmented Reality:

- Immersive Therapy Experiences: Creating immersive virtual reality environments for exposure therapy and other therapeutic techniques.
- Social Connection: Facilitating virtual social interactions to combat loneliness and isolation.

4. Ethical Considerations and Data Privacy:

- Ethical Guidelines: Ensuring that the development and use of mental health apps adhere to ethical guidelines.
- Data Security: Implementing robust security measures to protect user data privacy.

By embracing these trends, mental therapy applications can empower individuals to take control of their mental health and improve their overall well-being.

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