

Design and Development of a Web-Based Journal Application for Mental Health Tracking and Self-Reflection

Aboli Vijay More¹, Taha Wasmi², Nitu L. Pariyal³

¹Final Year B.Tech Student, Department of Computer Science and Engineering, MGM's College of Engineering, Nanded, India
²Final Year B.Tech Student, Department of Computer Science and Engineering, MGM's College of Engineering, Nanded, India
³Assistant Professor, Department of Computer Science and Engineering, MGM's College of Engineering, Nanded, India

Abstract - Over the past years, Mental Health has risen as a significant international concern showing the pressing essential need of accessible tech-driven self-care tools. In this paper, we describe Journal Base, a user-centered web-based journaling application that helps people improve their mental health through mood tracking and introspective writing. The app offers functions for users to log their feelings constantly, tag journal entries with emotions or activities that come to mind, and visualize mood in aggregations and patterns over time through intuitive dashboards. By exploring the themes of privacy, simplicity, and engagement, as and when we prototype Journal Base, we also integrate basic sentiment analysis and data export features for users who are interested in learning about their own emotional fluctuations. The solution proposed is light-weight, device-agnostic, and accessible to a vast array of users, ideal for those in academic settings, working force and who may not have regular access to mental health resources. Pre-testing with users we able to establish high usability and perceived usefulness. contributing to digital mental health directions with a tangible application. The platform thus contributes to the treatment of emotional stress and psychological

Index Terms: Mental health, Self-assessment, Web application, Emotional support, User interface, Real-time feedback, Privacy, Awareness tool, Lightweight design, Early intervention

I. INTRODUCTION

A vital component of total human well-being, mental health includes social, psychological, and emotional aspects that affect people's thoughts, feelings, and behaviors. Despite its significance, mental health is frequently disregarded or misinterpreted, especially in underdeveloped countries and among marginalized communities. Because of social stigma, ignorance, or restricted access to mental health services, millions of people worldwide suffer in silence from illnesses like anxiety, depression, and stress-related disorders. According to the World Health Organization, one in eight people worldwide suffer from a mental illness, but because of institutional obstacles and cultural taboos, only a small percentage of them receive proper care. Innovative, inclusive, and easily accessible solutions that support early intervention and mental health are needed to address this crisis.

In the current digital age, technology offers previously unheard-of chances to close the gap between people and mental health support networks. The benefits of digital platforms, particularly web-based applications, include scalability, anonymity, and accessibility. Without worrying about social criticism, they enable users to interact with mental health resources in the privacy of their own homes. Furthermore, by offering interactive resources for self-evaluation and tailored advice, technology can promote self-awareness and proactive behaviors. In order to promote self-identification and early mental health screening, this research presents the design, development, and implementation of a web-based platform called Helping Hand. This initiative recognizes the potential of digital transformation in mental healthcare.

Helping Hand is a user-centered platform that provides structured, scientifically informed self-assessment tools for people to assess their mental health. Through the analysis of user input, the system offers resources and recommendations that help the user adopt suitable mental wellness practices, as well as personalized feedback. Standard web development technologies—HTML for structure, CSS for visual design, and JavaScript for functionality and dynamic behavior—were used in the platform's construction. Users with varying backgrounds and levels of technological proficiency can be accommodated by its responsive, user-friendly, and inclusive design.

The Helping Hand platform's main objective is to enable users to take control of their mental health journey. It reduces the fear of exposure or condemnation while promoting candid discussion, introspection, and education. It encourages selfcompassion and autonomy in users by democratizing access to mental health assessment tools. A carefully curated knowledge base on the platform informs users about a range of mental health issues, symptoms, and coping strategies. This system can eventually be used as a starting point for incorporating more sophisticated technologies, like telehealth features for remote counseling or machine learning for predictive diagnostics.

This project is driven by both humanistic and technological considerations. On the one hand, it examines the technical difficulty of creating a web-based solution that is secure, interactive, and responsive. On the other hand, it responds to a fundamental human need: the need to be understood, heard, and supported as one navigates their mental health journey. Integrating mental health services into the digital ecosystems we increasingly live in is becoming more and more urgent as the boundaries between digital and real life continue to blur. The first step in normalizing discussions about mental health and incorporating support systems into commonplace digital tools is represented by platforms such as Helping Hand.



There are multiple sections in this research paper. After the introduction, a thorough literature review highlights the best practices, gaps, and available tools in the field of digital mental health interventions. The development process, tools, and frameworks are described in the methodology section. A thorough explanation of the system's architecture, user interface, and workflow follows. The results and discussion section considers the platform's potential impact and practical usability. The conclusion wraps up the results and suggests future paths, including adding user analytics, artificial intelligence, and multilingual support for a wider audience.

This study adds to the expanding field of technology-enabled wellness solutions by introducing Helping Hand as a prototype for easily accessible digital mental health care. It also creates new opportunities for enhancing emotional health outcomes through self-guided digital interaction.

II. LITERATURE REVIEW

Over the past ten years, there has been a noticeable increase in the use of mobile and web-based applications to improve selfmonitoring, emotional awareness, and early intervention in mental health care. The growing need for easily accessible mental health resources that enable people to take charge of their own wellbeing outside of clinical settings is in line with this trend. The therapeutic advantages of digital journaling are being bolstered by an increasing amount of research, particularly when combined with mood monitoring and tailored feedback. According to Pennebaker and Chung (2007), expressive writing enables people to process their feelings in a more positive way, which lowers psychological distress and enhances general wellbeing. Many digital interventions that focus on using writing as a means of emotional expression and cognitive restructuring were made possible by their work.

A number of smartphone apps, including Daylio, Moodnotes, and Reflectly, have made it common practice to incorporate emotional check-ins with guided prompts and self-reflective writing in the context of digital journaling and mood tracking. Users can use these tools to record their daily feelings, identify patterns in their behavior, and monitor long-term shifts in their mental states. Nevertheless, paywalls, a lack of customization options, and a primary focus on mobile platforms limit many of these applications, despite their widespread use. Long-term engagement may be hampered by these restrictions, especially for users looking for a more flexible and welcoming journaling environment. Commercial mood tracking apps can efficiently record surface-level emotional data, but they frequently fail to provide deeper psychological insights or uphold strict data privacy standards, according to a comparative study by Larsen et al. (2019).

When it comes to accessibility and reach, web-based mental health tools are superior to their mobile counterparts. Web platforms can be an inclusive alternative in areas where smartphone use is restricted or where shared or public devices are the primary means of accessing the internet. In some situations, well-designed web interventions can be just as effective as conventional in-person therapy, according to research by Andersson and Titov (2014). This is especially true when user-centered design and evidence-based practices are incorporated. According to Mohr et al. (2013), digital platforms are useful supplements to hybrid care models that combine professional advice with self-help resources because they support preventive care and daily mental health management.

Natural language processing (NLP) and sentiment analysis have also been introduced into the field of mental health applications by recent technological advancements. Research has demonstrated that applying natural language processing (NLP) techniques to analyze journal entries can uncover emotional patterns, identify early indicators of psychological distress, and facilitate more individualized interventions (Calvo et al., 2017). Although these developments offer fascinating opportunities, they also bring up important moral questions. Sensitive emotional data must be collected and analyzed with extreme caution; to avoid abuse and foster trust, clear data policies, user consent, and robust privacy protections are necessary.

There are still a number of significant gaps in this field, despite advancements. Web-based journaling platforms that are openaccess, completely customizable, and privacy-focused and made especially for tracking mental health are still conspicuously lacking. People who require regular, lowbarrier, and non-intrusive methods to monitor their emotional well-being are frequently left out of the majority of current tools, which are designed for clinical or commercial markets. To guarantee that digital mental health tools are not only efficient but also fair and inclusive across various user demographics and technological contexts, this gap must be closed.

III. METHODOLOGY

The Helping Hand platform was developed using an iterative, user-centered software development methodology that prioritized responsive web design, psychological comfort, and accessibility. In addition to developing a useful platform for mental health self-assessment, the objective was to make sure that the user's emotional journey was recognized and supported by careful design and augmentation strategies.

In order to identify the gaps in conventional mental health support systems—specifically, the absence of easily accessible, anonymous, and user-friendly early self-identification tools the project started with a comprehensive requirements analysis. Understanding the behavioral and emotional needs of the target audience, including those who might be reluctant to seek professional assistance because of social stigma, personal denial, or ignorance, was part of this phase. Important features like an anonymous user interface, dynamic feedback generation, an interactive self-assessment form, and a knowledge-based resource hub were developed with input from the analysis.

Three fundamental web development technologies—HTML, CSS, and JavaScript—were used in the platform's construction. The structural basis of the web pages was built using HTML, guaranteeing accessibility and semantic clarity. In order to prevent cognitive overload and promote emotional ease—both of which are critical for users who may be experiencing anxiety or distress—CSS was used to create a simple, serene, and minimalist interface. Specifically for the self-assessment



scoring algorithm and dynamic content rendering based on user responses, JavaScript was added to provide interactivity and logic.

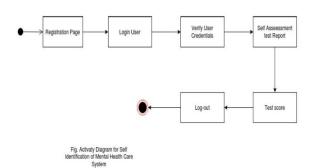


Fig.01 Activity Diagram for Self-Identification of mental Health Care System

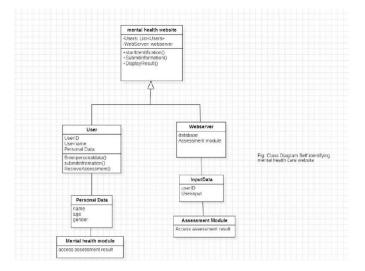
In order to preserve code scalability and clarity, the development process adhered to modular design principles. To map out the user journey and improve usability, wireframes and low-fidelity prototypes were made first. The interface was designed to walk the user through a series of mental health questions, analyze their responses, and provide score-based personalized feedback. To guarantee quick load times and mobile responsiveness, a lightweight strategy was used, enabling users to access the platform without the need to download extra apps or plugins on any device.

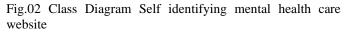
Additionally, the system architecture was thoughtfully designed. It featured independent modules for user input, score computation, dynamic result display, and content redirection. The evaluation questions were created with empathy and nonclinical language in mind, drawing on concepts from evidencebased mental health screening instruments. After calculating cumulative scores based on user choices, the JavaScript logic classified the results into mental wellness ranges like "low concern," "moderate concern," and "high concern." Following that, the platform gave users advice and nonjudgmental comments, along with resource links and suggested coping strategies.

Testing was done continuously during the development lifecycle. Manual test cases were used to assess responsiveness, cross-browser compatibility, form validation, and functionality. The interface and messaging tone were improved based on input from early testers to make sure users wouldn't experience any stress or discomfort.

The platform's extensive use of emotionally intelligent language was another crucial augmentation strategy. The prompts and texts were designed to be warm, inclusive, and stigma-free; instead of using words like "disorder," they used "emotional patterns" or "thought tendencies." In order to encourage users to explore their feelings without fear or shame, it was intended to eliminate any suggestion of pathology and instead present mental health as a spectrum. The platform's support was extended beyond the screen thanks to the frequent inclusion of gentle calls to action in post-assessment messages, such as "take a few minutes today to care for yourself" or "consider speaking with someone you trust."

During the evaluation process, psychological augmentation also included affirmations like "your thoughts are valid" or "it's okay to not have all the answers." Particularly for those who struggle with internalized stigma, these statements were nuanced yet effective tools for self-validation and emotional control. In an effort to encourage long-term engagement with mental health practices, the platform also promoted selfreflection outside of the assessment by using prompts like "journal how you're feeling today" or "observe your mood over the next few days." Additionally, the system architecture permits the possible integration of more sophisticated augmentation techniques in the future. These might include voice-based interfaces for people who struggle with reading, chatbots driven by AI to provide instant emotional support, and machine learning algorithms that adjust and suggest content based on past interaction patterns.Adding gamification components, like reflection streaks and progress badges, may also improve user motivation and retention. Crucially, the development also took into account the requirement for multilingual support in order to increase the platform's inclusivity and relevance in areas with a variety of cultural backgrounds.





Priorities for augmentation also included privacy and user autonomy. The platform was made to work without requiring users to register, and all data was kept private within the browser session. For users who might be hesitant to disclose their mental health status online, this was essential. Future improvements might include user-controlled dashboards and encrypted login systems, but only if data privacy regulations and ethical standards are strictly followed.

In conclusion, Helping Hand's methodology demonstrates a comprehensive strategy that blends emotional intelligence with technical accuracy. A careful layering of functional, interface, and psychological enhancements intended to satisfy the complex requirements of users starting their path toward mental self-awareness is demonstrated by the classification of augmentation techniques. These methods are fundamental to converting a static website into a responsive, encouraging, and empowering online space for mental health reflection, even though they are often subtle.



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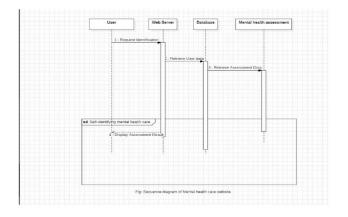


Fig.03 Sequence diagram of Mental health care website

IV. IMPLEMENTATION FLOW

The implementation of the web-based mental health platform followed a structured, iterative approach to ensure technical robustness and emotional intuitiveness. The process was divided into multiple phases, encompassing the planning, design, development, and deployment of an accessible and user-friendly self-assessment tool.

1. Planning and Requirement Gathering

The initial phase focused on identifying the platform's core objectives:

- To provide a safe and anonymous digital environment for users to assess their mental health,
- To deliver immediate feedback based on self-reported responses, and
- To offer personalized resources aligned with users' emotional states.

A review of existing mental health screening protocols and user expectations informed the development of functional and nonfunctional requirements. Key considerations included responsiveness, accessibility, user anonymity, intuitive interaction, and emotional safety.

2. Design Phase

Based on the gathered requirements, the system architecture and user flow were conceptualized. Low-fidelity wireframes were developed to define the structure and navigation of key interface components:

- Home Page •
- User Registration and Login Page
- Self-Assessment Form
- Feedback and Results Interface
- **Resource Recommendation Section**

In addition, Unified Modeling Language (UML) diagramsincluding class, sequence, and activity diagrams-were created to represent the relationships between components and data flow within the system.

3. Front-End Development

The front-end was developed using standard web technologies:

- HTML: Used for structuring content across the application.
- CSS: Applied to style the user interface with a focus on minimalism and mental comfort, using soft color palettes such as calming blues and greens.
- JavaScript: Employed to implement interactive behavior, manage assessment logic, and dynamically update the Document Object Model (DOM) without page reloads.

Form validations and score-based feedback were handled using JavaScript. Event listeners captured user inputs and dynamically updated the interface based on their responses.

4. Self-Assessment Logic Implementation

The self-assessment tool was designed as a modular form. Each question offered multiple-choice options, with each response mapped to a specific score value. Upon form submission:

- JavaScript computed the cumulative score.
- The score was categorized into mental health zones: Low Concern, Moderate Concern, and Critical Concern.
- Personalized feedback was generated and the user was directed to appropriate resources.

This scoring logic was implemented in a scalable manner, allowing for future integration with more advanced screening algorithms or AI-based emotional analysis tools.

5. Result Generation and Resource Mapping

Upon assessment completion, the platform generated a feedback message that was both informative and emotionally affirming. Key features included:

- A contextual interpretation of the user's score,
- Suggested coping strategies and self-care activities, and
- Curated links to articles, videos, and support platforms through an integrated resource hub.

To avoid clinical labeling, the feedback emphasized selfawareness, encouragement, and guidance, reducing the risk of inducing anxiety or distress.

V. FUTURE SCOPE

There is still much room for improvement and growth even though the Helping Hand platform successfully fills the need for a web-based self-identification tool for mental health awareness. Technology-driven solutions like Helping Hand



must advance to offer greater engagement, personalization, and scalability as mental health issues continue to spread throughout the world. This project's future scope encompasses both value-added features and technological advancements that will enhance its function in promoting mental health.

The integration of data tracking and user accounts is one of the main areas for future development. Although the platform currently provides anonymous tests, adding secure login options would enable users to monitor their emotional development over time. The system could offer long-term insights and behavioral trends by keeping track of assessments and activities, which would motivate users to think critically and get timely assistance when needed.

The integration of machine learning (ML) and artificial intelligence (AI) is another exciting avenue. The platform could more successfully tailor feedback based on user patterns, mood history, and behavior with AI-powered analytics.

It may be possible to train machine learning models to recognize the early warning indicators of particular mental health disorders and, in response, recommend specialized coping mechanisms, peer support groups, or professional resources.

To guarantee the platform's accessibility and inclusivity, a multilingual and culturally sensitive interface must be developed in the future. Languages and cultures frequently have different definitions and expressions of mental health. Particularly in a multilingual nation like India, providing regional language support and culturally sensitive content will increase the tool's relevance and accessibility for a variety of populations.

Another important step is to expand the platform into a mobile application with offline functionality. A mobile app would give users easier access, push notifications for frequent check-ins, and offline journaling features, even though web accessibility is still helpful. Users in places with poor internet connectivity may particularly benefit from this.

The gap between self-identification and professional assistance can be further closed by integrating teleconsultation features or chatbot-based emotional support. In emergency situations, a Natural Language Processing (NLP)-powered guided chatbot can provide users with immediate support, point them in the direction of resources, or even put them in touch with licensed mental health specialists.

In order to increase user engagement, future iterations might also investigate gamification strategies. Mood streaks, interactive challenges, and progress tracking badges may encourage users to use the platform frequently, turning mental health monitoring into an ongoing and fulfilling activity rather than a one-time event.

Last but not least, improving the self-assessment logic, confirming the scoring systems, and guaranteeing ethical alignment will require cooperation with clinical psychologists and mental health researchers. Professional involvement can

help the platform transform from an awareness tool into a semistructured, clinically informed self-help system.

In conclusion, while the Helping Hand platform provides a solid basis for self-directed mental health reflection, its full potential rests in its capacity to grow, adapt, and integrate into a more sophisticated, inclusive, and interconnected ecosystem for emotional well-being. Personalization, professional integration, mobile accessibility, and worldwide applicability are the main areas of focus for the anticipated future scope, which will make it a genuinely significant tool for digital mental healthcare.

VI. RESULTS

The Helping Hand platform, a useful browser-based web application designed to promote emotional awareness and mental health self-assessment, was successfully put into use. Technical functionality, usability, responsiveness, and emotional impact were among the many criteria used to evaluate the system. The evaluation process placed a strong emphasis on user experience because of the delicate nature of the platform's mission.

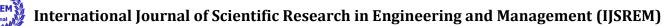
1. Functional Output

Following deployment, the system demonstrated successful execution of all planned functionalities. Key modules and their corresponding outputs are summarized below:

- Home and Navigation Pages: Rendered correctly across devices, enabling intuitive navigation through the platform.
- User Authentication: Registration and login forms accepted and validated inputs. While optional during testing, the authentication system was fully modeled and prepared for future deployment.
- Self-Assessment Form: Presented a structured set of multiple-choice questions evaluating emotional and behavioral patterns. User inputs were successfully recorded and processed in real-time.
- Score Evaluation Logic: JavaScript-based logic accurately computed scores and mapped users to one of the following mental wellness categories:
 - *Low Concern*: Reflecting overall emotional balance
 - *Moderate Concern*: Suggestive of stress, fatigue, or mild anxiety
 - *High Concern*: Indicating the potential need for introspection, external support, or further assessment
- **Dynamic Feedback Generation**: Personalized messages were generated based on the assessment score. These messages were empathetic and non-stigmatizing, and included links to curated mental health resources.

2. User Experience Evaluation

To evaluate real-world usability and emotional sensitivity, a small group of users—including students and peers—interacted with the system in a controlled environment. Qualitative



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feedback was collected to assess key aspects of user experience:

- **Ease of Use**: Participants found the interface intuitive and easy to navigate, even without technical expertise.
- Emotional Comfort: The tone of language used throughout the platform was received positively. Participants described the feedback as "friendly," "reassuring," and "emotionally safe."
- **Device Responsiveness**: The platform maintained consistent performance across smartphones, tablets, and desktop systems, with responsive layouts enhancing usability and accessibility.
- **Trust and Privacy**: Users expressed appreciation for the anonymity and privacy-preserving design. The platform's refusal to permanently store sensitive data increased their willingness to engage honestly with the assessment.

3. Visual Demonstration of Output

The system produced a range of visual and interactive elements that reflect the platform's successful implementation. Major interface components included:

• **Home Page Interface**: Provided an introductory overview and directed users toward the assessment module.

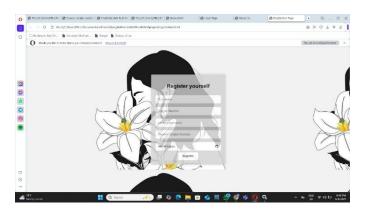
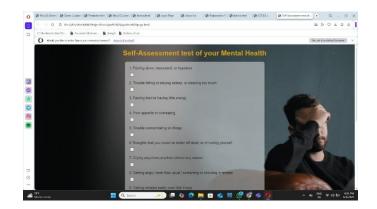
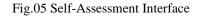


Fig. 04 Home Page

- Login and Registration Pages: Enabled user onboarding for future iterations involving stored accounts.
- Assessment Interface: Displayed questions sequentially, with clearly defined answer choices and a calm, accessible design.





• **Results Page**: Offered real-time feedback based on user scores, accompanied by tailored support messages and relevant resource links.



Fig.06 Result Page

• Assessment Summary (Optional): An optional, nondownloadable report feature summarized responses and suggested coping strategies for advanced users.

Representative screenshots were archived in the project documentation and may be included in the paper's appendix or visual annex.

4. System Stability and Reliability

The platform underwent multiple rounds of testing, during which it exhibited consistent and stable performance. The application handled edge cases gracefully—such as incomplete submissions—through JavaScript-based input validation and user alerts. No system crashes or major bugs were encountered. The platform functioned reliably even under challenging conditions, including limited bandwidth and low-performance devices.

5. Overall Impact

Despite being in a prototype stage, the *Helping Hand* platform effectively fulfilled its primary objective: to create a safe, stigma-free digital environment for users to reflect on their emotional well-being. Several test participants indicated that they would recommend the tool to peers who may be experiencing psychological stress but are hesitant to seek



professional intervention. This outcome highlights the potential for even lightweight digital tools to provide meaningful emotional support when designed with empathy and usercentric principles.

VII. CONCLUSION AND FUTURE WORK

An important step in closing the gap between technological innovation and mental health awareness has been taken with the creation and deployment of the Helping Hand platform. The platform provides a lightweight, accessible, and user-friendly solution for people looking for early insights into their emotional well-being by utilizing core web technologies, such as HTML, CSS, and JavaScript. It offers a secure online environment where people can evaluate their mental health in private, consider their emotional tendencies, and get tailored feedback without worrying about stigma or condemnation.

The project effectively illustrates how self-assessment tools can be effective facilitators of mental health awareness when combined with supportive language and an empathetic user interface design. The platform's use of augmentation techniques, from emotionally intelligent messaging and inclusive UI elements to dynamic content delivery and scorebased feedback, enhances both the system's usability and therapeutic value. These methods are essential for raising user engagement, encouraging self-reflection, and motivating proactive behavior related to mental health care.

For users in the early phases of emotional distress, Helping Hand acts as a digital ally, providing direction, comfort, and inspiration to move forward in their journey toward wellbeing. The platform bridges a critical gap by offering easily accessible, stigma-free first-level support that can encourage well-informed help-seeking behavior, even though it cannot replace professional diagnosis or therapy.

Like any early prototype, there are drawbacks as well as room for improvement. Long-term progress tracking is limited by the current platform's complete client-side operation and lack of user account functionality. Furthermore, the self-assessment logic does not yet include clinical validation or sophisticated analytics, even though it is founded on condensed mental health indicators. Despite being purposefully scoped out in the first phase, these aspects offer promising directions for the future enhancement.

VIII. ACKNOWLEDGMENT

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I want to express my gratitude to my friends and peers for their