

WEB-BASED PERSONALISED DIARY

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Introduction

A web-based personalized diary signifies a significant departure from the age-old practice of journaling on paper, introducing a contemporary and digitally-driven approach. This innovative platform empowers individuals to capture their thoughts, experiences, and cherished memories within an online space. It goes beyond the constraints of traditional diary-keeping by providing a rich array of features and customization options, elevating the entire journaling experience. The core aim of this project is to modernize and revitalize conventional journaling by fully leveraging the capabilities of technology, culminating in a diary experience that is immersive and uniquely tailored to each user. Through the personalized diary platform, users are given the creative autonomy to craft their digital diaries, enabling them to curate and express their individual preferences and distinctive styles with each entry. A web-based personalized diary bridges elements of both blogs and social media platforms like Facebook. Blogs and Facebook are often regarded as tools for sharing unfolding life events, each possessing distinct strengths and weaknesses (West, 2013). The proposed personalized diary combines the content creation and customization features of blogs with a focus on personal, private reflection similar to traditional paper diaries. Unlike Facebook, personalized diaries prioritize privacy and offer a more specialized platform for users seeking a personal and introspective online journaling experience. This project holds the potential to transform the way people engage with their personal narratives, offering a dynamic and versatile diary-keeping solution that adapts to the ever-evolving digital landscape. By facilitating user empowerment and creative expression, the web-based personalized diary represents a significant step forward in the evolution of personal journaling.

Keywords: digital diary, online journal, personalized diary, web-based journaling, diary app

Methodology

The project progresses through five well-defined stages, each playing a crucial role in its development. The planning phase sets the project's foundations, the analysis stage delves deep into requirements, and the design phase brings conceptual ideas for architecture and user interfaces to life. Subsequently, the coding phase transforms these designs into functional prototypes. Finally, the evaluation phase meticulously scrutinizes the project, identifying and rectifying any issues to ensure it operates seamlessly and aligns with predefined requirements. This structured approach from planning to evaluation ensures a comprehensive and successful project outcome.

In this evaluation process, participants were tasked with completing a series of actions on the website under examination. Subsequently, they were required to complete a post-study questionnaire adapted from the Website Analysis and Measurement Inventory (WAMMI) as adapted by previous studies such as Ismail et al (2021). This questionnaire utilized a 5-point rating scale, allowing participants to express their opinions, which ranged from "strongly disagree" to "strongly agree," in response to each question posed within the questionnaire. The combination of task performance and questionnaire responses provided valuable insights into the website's performance and user satisfaction across key aspects such as attractiveness, controllability, efficiency, helpfulness, and learnability.

Result & Discussion

Figure 1 shows the use case diagram of the proposed system. In the use case diagram, the system's functionality and interactions are visually represented, illustrating the roles and capabilities of both users and the admin. In the use case diagram, two primary actors are depicted: users and admin. Users represent individuals who engage with the system, and they have a range of actions they can undertake. These actions include registering as new members, viewing their existing diary entries, managing their diary content, organizing multimedia galleries, and providing valuable feedback to enhance the system. Importantly, both the registration process and feedback submission are accessible not only to users but also to the admin. This means that the admin can perform these actions as needed. To maintain security and privacy, user activities, including registration and feedback submission, will require authentication, ensuring that only authorized individuals can access and utilize these features within the system. Figure 2 shows the main interfaces of the prototype. The research engaged a sample of 38 participants, comprising 21 females and 17 males, who were selected at random to conduct a comprehensive assessment of the website's performance across various dimensions. This encompassing evaluation covered key facets, including the website's visual appeal, ease of use, task efficiency, usefulness, and ease of learning. Notably, participants highly valued the website's aesthetic appeal and user-friendly design, underscoring the pivotal role of an attractive website layout in captivating and retaining users. Furthermore, the positive feedback on controllability indicated that users could seamlessly navigate the platform without feeling constrained, significantly enhancing the overall user experience. Additionally, participants reported high task efficiency while interacting with the diary website, emphasizing its time-saving and enjoyable attributes. Furthermore, users found the website to be exceptionally beneficial for their diary-keeping needs, underscoring the project's triumphant achievement of its primary objective. Lastly, participants appreciated the website's ease of learning, ensuring that users swiftly comprehended its functionality, a critical element in sustaining user engagement over time.

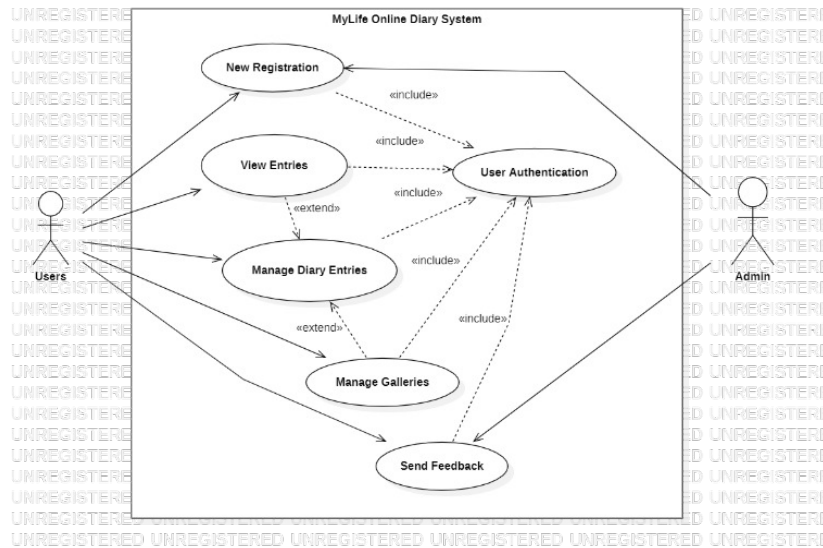
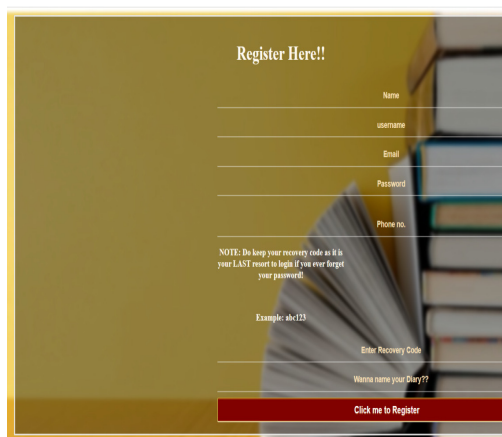


Figure 1: Use Case Diagram for Users and Admin



(a) New User Registration



(b) New Entry Interface

Figure 2: Example of the interfaces

Contribution to Society

A web-based personalized diary has a profound impact on the practice of diary-keeping in the digital age. Firstly, the platform offers users an engaging and user-friendly space to document their thoughts, experiences, and memories. With an emphasis on visual appeal and ease of use, it draws users in, making diary-keeping not only accessible but also enjoyable. This shift from traditional paper diaries to a digital format ensures that users can effortlessly transition while embracing modernized and efficient diary practices. Secondly, the project introduces innovative digital diary practices that empower users to take control of their journaling journey. It breaks free from the constraints of pen and paper, allowing for multimedia integration, customization, and feedback provision. This user empowerment is a significant step forward, as it fosters a sense of ownership over one's personal narrative and emotional expression. Furthermore, the project's focus on efficiency enhances productivity in diary-keeping, enabling users to manage their time more effectively. Additionally, by providing a

supportive digital sanctuary for emotional well-being and self-reflection, it contributes to users' mental health and overall sense of fulfillment. Lastly, the platform's ease of adoption ensures that individuals from diverse backgrounds and tech-literacy levels can readily embrace this innovative digital tool, making diary-keeping not only accessible but also a universally beneficial practice in the digital age.

Conclusion

In conclusion, the web-based application serves as a vital tool due to its ease of access and overall feasibility, making it accessible and practical for users across the board (Gunasegaran et al.,2021). The personalized diary project revolutionizes traditional journaling by seamlessly merging technology with personal expression. Its multifaceted contributions, ranging from enhancing user experience to fostering empowerment, efficiency, emotional well-being, and ease of adoption, collectively make diary-keeping accessible, engaging, and profoundly meaningful in the digital age.

References

West, L.E. (2013) Facebook sharing: A sociolinguistic analysis of computer-mediated storytelling, *Discourse, Context & Media*, 2(1), 1-13

Ismail, N.A., Jamaluddin, Fl., Hamidan, A.H., Ali, A.F, Mohamed, S.E., & Said, C,S. (2021). Usability Evaluation of Encyclopedia Websites, *International Journal of Innovative Computing* 11(1), 21-25

Gunasegaran, V., Ishak, W.H.W., Yamin, F.M. (2021) Web Based System for Planning and Managing Vacation at Pangkor Island, *Proceedings of the 3rd Conference on Technology and Operations Management (CTOM)*, 366-376