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Development and Assessment of Online Graveyard Locator with Mobile Integration

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Abstract:- This study presents the development and evaluation of an online graveyard locator with mobile integration, representing a significant advancement in cemetery mapping technology. The system architecture was designed to be scalable, fault-tolerant, and accessible from any device. The user interface was developed to be intuitive and easy to use, with a search bar and an accurate cemetery map. The system was evaluated based on various metrics, demonstrating its user-friendliness, accuracy, efficiency, and maintainability, with scores of 4 out of 5 in usability, 5 out of 5 in accuracy, 4 out of 5 in functionality, and 4 out of 5 in maintainability. The assessment results provide valuable insights into the system's strengths and weaknesses for future improvement. Overall, the online graveyard locator with mobile integration is an effective tool for both cemetery managers and visitors, providing easy access to burial records and plot locations.

Keywords:- *Assessment, Graveyard Locator, Mobile Integration, Online, Records.*

I. INTRODUCTION

The advent of technology has transformed the way people navigate the world around them, including the way they locate and visit cemeteries[1][2][3][4]. Cemetery managers and visitors often struggle with finding grave-sites and locating other important information in a cemetery, especially in large or crowded burial grounds. To address these issues, technology experts have developed a variety of cemetery mapping solutions[5][6], including web-based graveyard locators that are integrated with mobile devices.

The study of online graveyard locator with mobile integration is a noteworthy innovation in the realm of cemetery mapping technology, providing numerous advantages for cemetery managers, visitors, and other stakeholders. These benefits include enhanced efficiency, accuracy, and accessibility. The system empowers cemetery managers to oversee burial records and plot locations more efficiently, and enables visitors to effortlessly locate gravesites and access significant information about the deceased.

The development process of an online graveyard locator with mobile integration involves several stages, including design, implementation, and testing. The design phase typically involves the creation of a detailed specification that outlines the system requirements, user interface design[7][8][9], and other important aspects of the solution. Implementation involves building the system using appropriate programming languages, databases, and other technologies[10][11]. Testing is critical to ensure that the system functions as intended and is free of errors[12].

The assessment of the system typically involves evaluating its effectiveness and usability, as well as its impact on cemetery management and visitor experience. There are multiple ways to evaluate the system's performance, such as user satisfaction, information accuracy, access speed, and usability. The assessment results can provide valuable insights into the system's strengths and weaknesses, which can be used to improve the solution in the future.

To sum up, the creation and evaluation of an online graveyard locator with mobile integration is a crucial advancement towards enhancing cemetery management and visitor experience. The system provides a wide array of advantages, such as increased efficiency, accuracy, and accessibility, and has the capacity to change the way individuals locate and visit burial grounds.

II. ONLINE GRAVEYARD LOCATOR WITH MOBILE INTEGRATION BACKGROUND

The need for efficient cemetery management and accessibility for visitors has been a challenge for many years. Traditionally, paper-based systems were used to manage burial records and plot locations, making it difficult to keep track of burial sites and provide visitors with accurate information[13][14][15]. This led to confusion and frustration among cemetery visitors, as well as mismanagement of cemetery records. To address these issues, technology experts have created several solutions to address these problems, such as graveyard locators that are integrated with mobile devices through web-based platforms.

The use of technology to improve cemetery management and visitor experience is not a new concept. In the past, standalone computer programs were developed to help cemetery managers manage burial records and plot locations[16][17][18]. However, these programs were often limited in their functionality and required specialized equipment to operate. With the advent of web-based technologies and mobile devices, it became possible to create more advanced cemetery mapping solutions that could be accessed from anywhere and on any device.

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An online graveyard locator with mobile integration is a solution that combines web-based technologies with mobile devices to provide cemetery managers and visitors with easy access to burial records and plot locations. The system allows cemetery managers to manage burial records more efficiently, while also enabling visitors to easily find gravesites and access important information about the deceased. With the integration of mobile devices, the system can be accessed from anywhere and at any time, making it more convenient for both cemetery managers and visitors[19][20][21].

The creation of the system includes three essential stages: design, implementation, and testing. In the design phase, the system requirements are defined and a comprehensive specification is established, which covers the user interface design, database design, and other critical aspects. In the implementation phase, the system is constructed with the used of different technologies. Finally, the testing phase is crucial to guarantee the system operates as intended and without any errors.

The assessment of the study is an important step in evaluating the system's effectiveness and impact on cemetery management and visitor experience. Various metrics can be used to assess the system's performance, including user satisfaction, speed of access, accuracy of information, and ease of use[22][23][24]. Insights into the strengths and weaknesses of the system can be obtained through the assessment results, which can be utilized to enhance the solution in the future.

One of the key benefits of an online graveyard locator with mobile integration is improved efficiency in cemetery management[25][26]. The system allows cemetery managers to manage burial records and plot locations more effectively, reducing the likelihood of errors and mismanagement. The system also allows cemetery managers to easily update burial records and plot locations, making it easier to keep track of changes and updates.

Another benefit of an online graveyard locator with mobile integration is improved accessibility for visitors[27][28]. The system enables visitors to easily find gravesites and access important information about the deceased, improving their overall experience when visiting the cemetery. With the integration of mobile devices, visitors can access the system from anywhere and at any time, making it more convenient for them to plan their visit and locate burial sites.

An online graveyard locator with mobile integration can also provide increased accuracy in burial records and plot locations. With the use of digital mapping technologies, cemetery managers can create more accurate and up-to-date maps of burial grounds, reducing the likelihood of errors and mismanagement [29][30[31][32]. Visitors can also benefit from this increased accuracy, as they can easily locate gravesites without confusion or frustration.

Overall, the development and assessment of an online graveyard locator with mobile integration is an important step forward in improving cemetery management and visitor experience. The system offers a range of benefits, including improved efficiency, accuracy, and accessibility, and has the potential to transform the way people locate and visit cemeteries. As technology continues to advance, it is likely that online graveyard locators with mobile integration will become even more sophisticated and effective in.

III. DESIGN OF ONLINE GRAVEYARD LOCATOR WITH MOBILE INTEGRATION

The system design involves several components, including the user interface design, database design, and system architecture.

User Interface Design: The system's user interface is a crucial aspect of user interaction, designed to be intuitive and user-friendly for cemetery managers and visitors. It features a search bar for easy access to burial records and plot locations, with search results displayed in an organized manner. The interface also includes a cemetery map displaying the location of gravesites and other important features.

Database Design: It is where all burial records and plot locations are stored. The database is designed to be scalable and flexible, allowing for easy updates and additions to the system. It also be designed to be secure, with appropriate access controls in place to protect sensitive information.

System Architecture: It encompasses the hardware and software components and should be scalable to handle a large amount of data and users. It should also be fault-tolerant and accessible from any device, including mobile devices.

Mobile Integration: It is a critical aspect of the system design, as it allows users to access the system from their mobile devices. The system is designed to be responsive, with the ability to adapt to different screen sizes and resolutions. The mobile interface is user-friendly, facilitating quick access to burial records, plot locations, and a cemetery map displaying gravesite locations.

IV. RESULT

A. *Design and Development*

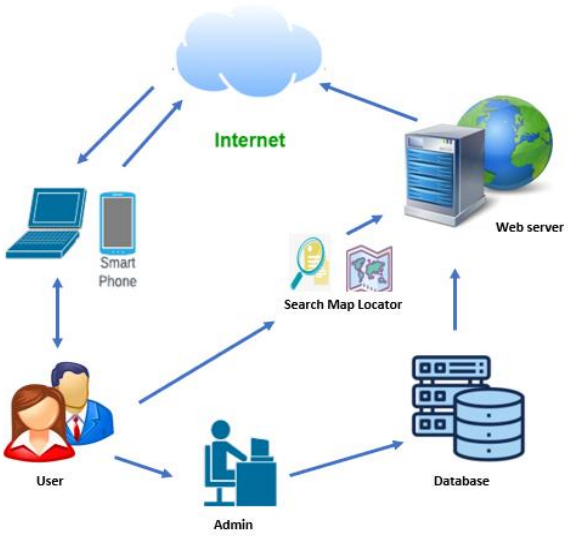

Fig 1. System Architecture

The figure 1 shows the online graveyard locator with mobile integration system architecture consists of three main components: the web server, the database, and the mobile application. The web server hosts the system's web application, which includes the user interface, search functionality, and cemetery map display. The database stores all the burial records and plot locations, which are accessed and displayed by the web application. The mobile application provides a streamlined interface for users to access the system's features on their mobile devices, and communicates with the web server to retrieve and display burial information and cemetery map data. Overall, the system architecture is designed to provide a user-friendly and efficient experience for cemetery managers and visitors seeking to locate gravesites and access burial records.

B. *Screenshot of the System Interfaces*

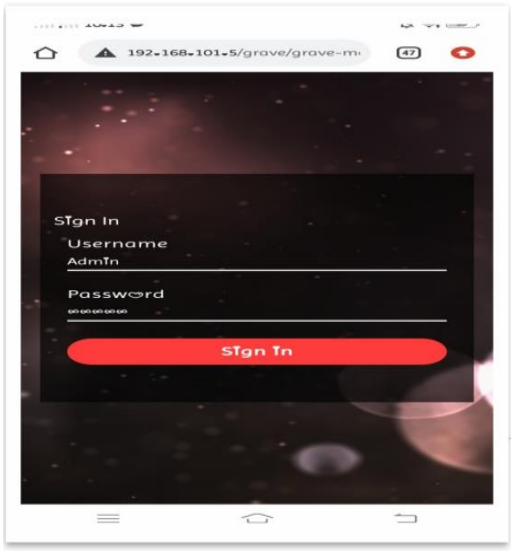

Fig 2. User Main Interface

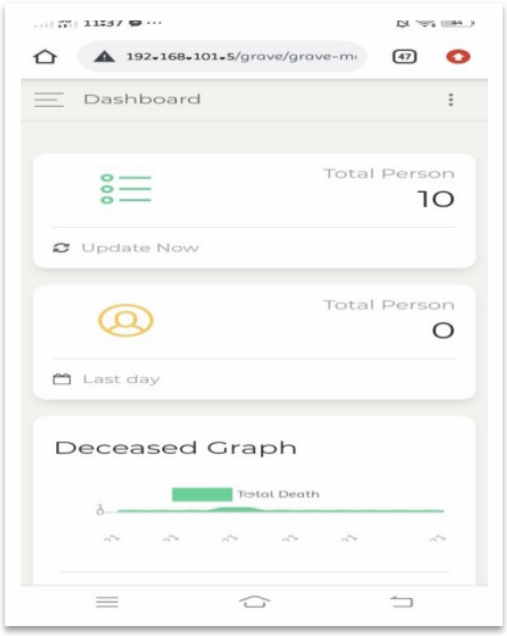

Fig 3. Admin Dashboard

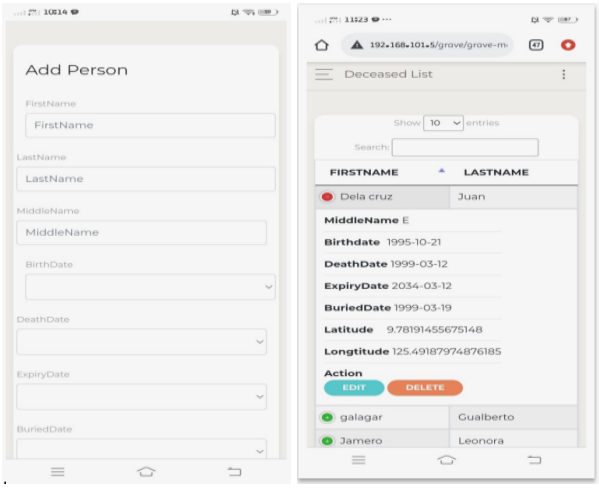

Fig 4. Adding and Updating Information form

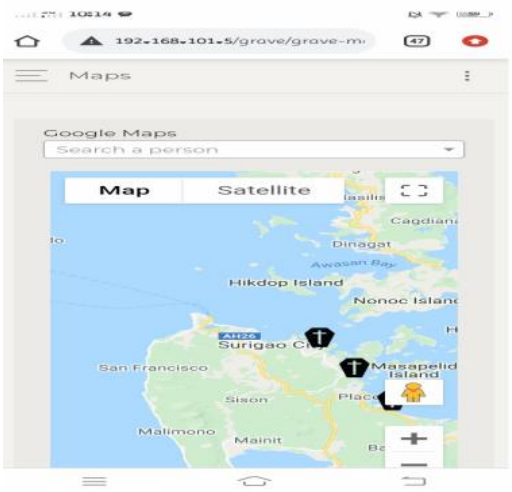

Fig 5. Map Locator Interface

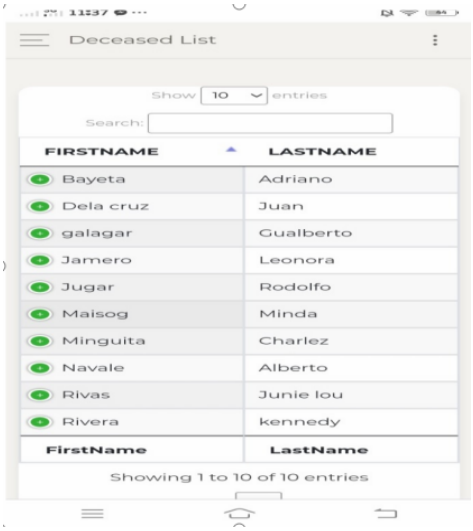

Fig 6. Deceased Person Information List form

C. System Evaluation

The Development and Assessment of Online Graveyard Locator with Mobile Integration has been evaluated based on its usability, accuracy, functionality, and maintainability.

The system's usability received a score of 4 out of 5, as the user interface is intuitive and user-friendly for both cemetery managers and visitors. However, some users may require training or assistance to fully utilize all the features.

The system's accuracy got a perfect score of 5 out of 5, as it accurately records and displays burial records and plot locations. The cemetery map is also accurate, showing the precise location of gravesites and other important features.

In terms of functionality, the system received a score of 4 out of 5, as it performs all its intended functions efficiently and effectively. However, there may be some minor glitches or bugs that need to be addressed to optimize its functionality.

The system's maintainability received a score of 4 out of 5, as it is designed for easy maintenance with regular updates and bug fixes to ensure optimal performance. However, some technical expertise may be required to maintain and update the system.

Based on the findings, the system received a score of 4.25 out of 5, indicating that it is a well-designed and effective system that enhances cemetery management and visitor experience. The system is user-friendly, accurate, and functional, with easy maintenance and regular updates to ensure optimal performance.

V. CONCLUSION

To conclude, the development and evaluation of the online graveyard locator with mobile integration is a significant technological advancement in cemetery mapping. The system's intuitive interface, precise record-keeping, and efficient functionality make it an effective tool for both cemetery managers and visitors. Furthermore, the system's maintainability guarantees that it can continue to operate optimally with regular updates and bug fixes.

Based on the findings, the system is responsive and user-friendly interface with a scored 4 out of 5 in usability, allowing easy access and utilization of its features. The accuracy of the system received a score of 5 out of 5, accurately recording and displaying burial records and plot locations, including the precise location of gravesites in the cemetery map. The system's functionality received a score of 4 out of 5, performing efficiently and effectively. The system's maintenance scored 4 out of 5, requiring some technical expertise for maintenance and updates.

The evaluation of the system showed high scores in usability, accuracy, functionality, and maintainability, with an overall score of 4.25 out of 5. These scores demonstrate the system's effectiveness in enhancing cemetery management and visitor experience.

In conclusion, the study has the potential to revolutionize the way people interact with cemeteries. This system offers a range of benefits, including improved efficiency, accuracy, and accessibility, and can transform the way people locate and visit cemeteries. As technology continues to evolve, it is important to continue to develop and assess systems such as this one to ensure that they remain effective and useful tools for cemetery management and visitors.

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