**Intro ( Rosette Ayunar)**
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**INTRODUCTION**
Good day everyone My name is Rosette C. Ayunar and together with me are Simon Alexander Mulligan and Cedrick Capuyan

Our capstone project is entitled “Don Carlos Cemetery Management System

So what is Don Carlos Cemetery Management System?
DCCMS is a software solution to  automate various tasks related to the management of cemeteries and burial grounds. This system aims to address the challenges faced by the Don Carlos Public Cemetery management in effectively managing its operational processes as the number of tombs continues to increase in the cemetery, which has led to challenges in record-keeping, financial management, and navigation within the cemetery grounds. The management continues to face daily challenges due to its growing population, which now exceeds 7,000.

Lets delve into the

PROCESS OF data management in DON CARLOS CEMETERY
The data management process in Don Carlos Public Cemetery starts with the client stating their intention, whether it is a Financial Transaction Process or Application for burial plot reservation. When the client already indicated their intention, the manager will now collect data or information needed to process the client's inquiry, storing them in paper files for record-keeping. Without a digital database, the paper files serve as the primary means of data storage and record-keeping at Don Carlos Public Cemetery. Manual data analysis is performed by extracting relevant information from the paper files and compiling it into summary reports or visual presentations. This may involve tallying financial transactions, tracking application statuses, or manually mapping out grave site distributions using paper-based tools.

1. PROBLEM

The problem with Don Carlos Cemetery is the current process of how the management stores their cemetery records. When a client requests a cemetery record, the manager manually retrieves the document among their giant pile of paper files before giving the client the requested document, which is very time-consuming and inaccessible when immediately needed.

2. PROPOSED SOLUTION

With this problem, we propose a solution of creating an interface that would manage data of cemetery records and also save the management some time and effort which is the cemetery management system. With the proposed interface, when a client requests a cemetery record, the manager will check the requested record on the cemetery management system and retrieve the data in the database. Once data has been retrieved, the manager can now get the requested record or document and give it to the client.

Problem

Moreover, the management of Don Carlos Cemetery is facing significant problems due to the current financial process and the portrayal of the cemetery's overall financial status.

When the client requests their financial status, the manager manually tracks the financial record through a mountain of paper files to locate the information before providing it to the client for its requested financial record.

SOLUTION

With this problem, we propose a solution of integrating a financial system that will log clients' financial accountabilities, track previous financial-related transactions, and summarize financial activities. With the proposed financial system, when a client requests its financial status, the manager can quickly access it to retrieve the necessary record. Once the data has been retrieved, the manager can present the client with their financial record and current status. This enhances client experience by providing timely and accurate information and empowers the manager to focus on more strategic tasks, improving overall operational efficiency.

Problem

Let's proceed to the challenge the client and manager faced in locating an available burial plot for reservation.

When the client asks for a burial plot, the manager relies on cemetery staff to assist them in finding an available plot, which is often difficult for the staff to search through the cemetery grounds to identify available spaces physically. This method can be time-consuming and inefficient, as staff may need to traverse large cemetery areas to locate suitable options. Additionally, the lack of real-time visibility into plot availability can result in miscommunication and potential errors, leading to misunderstandings or double bookings.

To address this challenge, we propose a Mapping System that could provide the manager with easy access to available plots based on their preferences and budget. The system will offer a real-time update on plot availability and automate the reservation process.

When a client requests a burial plot reservation, the manager can automatically access the mapping system, which provides an overview of available plots in real-time. With the mapping system, the manager can easily navigate through the cemetery's layout, pinpointing available plots based on the client's preferences, such as location, size, and price range. This visual representation empowers the client to make informed decisions as they can see each available plot's exact location and surrounding area. The interactive nature of the mapping system allows the manager to provide a personalized and efficient service to the client. Instead of relying on verbal descriptions or physical tours of the cemetery grounds, the manager can guide the client through the digital map, highlighting key features and answering questions.

Furthermore, the mapping system optimizes the manager's workflow by automating the plot selection process and minimizing the time spent on manual searches. Implementing a mapping system for burial plot reservations enhances the client experience, improves operational efficiency, and modernizes how cemeteries manage plot allocation. By leveraging technology in the reservation process, clients and managers can navigate the delicate task of choosing a final resting place with greater ease and clarity.

Let's delve into the challenges clients often encounter in locating the exact grave they wish to visit. They may spend valuable time wandering through the cemetery grounds, searching for the desired plot.

The current process is that the client and the manager ask the staff for a specific grave, and the staff will manually locate the graves one by one. Moreover, relying on manual methods such as verbal directions or paper maps can introduce a margin of error. Miscommunication or misunderstandings between clients and staff may occur, resulting in clients being directed to incorrect graves or experiencing difficulty interpreting the provided guidance. Furthermore, the manual nature of the process limits the accessibility and convenience of grave location services, particularly for clients who may have mobility issues or other limitations. The client may hesitate to visit the cemetery altogether due to concerns about the difficulty of locating graves.

To resolve the clients' problem of locating the specific graves they want to visit, we proposed a mapping system that can locate the specific graves.

The client will tell the staff the names or details of the deceased they want to visit, and the system will generate a precise map displaying the grave's exact location. The mapping system benefits cemetery staff by making their workflow more manageable and reducing the burden of assisting clients with grave locations. Overall, introducing a mapping system represents a significant step forward in modernizing cemetery navigation and improving the client experience. By embracing technology and innovation, cemeteries can better serve their clients and ensure that the memory of their loved ones is honored with dignity and respect.

**Now, I'd like to turn it over to Cedrick, who will continue to discuss our project methodology**

The project adopts the Agile Development Methodology for its flexibility in adapting to changing requirements and breaking down development into phases, allowing developers to focus on required features.

The methodology involves iterative development cycles, enabling the team to concentrate on specific tasks and features within defined sprints.
The development process is structured around specified sprints, each focusing on distinct aspects of the system's functionality and design.

To accomplish these objectives, we have created a project plan that includes the following sprints:

the stages in every sprint are focused on achieving the goals, requirements, and scope of each sprint. To achieve this, the team needs to gather data, information, and system specifications from the manager of Don Carlos Public Cemetery. After this, we will create a backlog of a sprint to identify features that need to be prioritized and accomplish specific tasks. Hence, these tasks will then be divided into smaller units to complete a sprint.

**Specified Sprints**

- Sprint 1: System Interface Design

This sprint is allocated for 3 months from planning to its deployment. Within this timeframe, the team will begin the development of the system design. These includes, manager login page, system navigation, and other functionalities that updates cemetery records.

- Sprint 2: Financial Tracking and Recording Module

The entire development time for this sprint is 2 months from planning to the deployment phase. This sprint will allow the manager of Don Carlos Public Cemetery to update accountabilities, and record transactions. Moreover, the client can also request progress of their accountabilities by viewing its own transaction history.

- Sprint 3: Map Visualization and Grave Location Tracking

This allocates a five-month timeline, this sprint allows the development of map visualization functionality to Don Carlos Public Cemetery. The goal of this is to introduce navigating of graves by having an interactive map visualization interface. This aims to provide the manager and visitors of the cemetery to search for the graves of their relatives.

**We encountered deviations from the initial project plan due to necessary revisions. These revisions were essential to ensure the accuracy and effectiveness of our work, leading us to adjust our timeline and prototype accordingly.**

**Now, I'd like to turn it over to Simon, who will continue to discuss the progress of our project,**

**(SIMON IMO NA DAYN NI)**

**Thank you, Rosette. I am Cedrick, and I will continue to discuss the progress of our project.**

Our team has been diligently working towards our objectives over the past four weeks. Now, let's delve into the progress report to highlight the key accomplishments and milestones achieved during this period.

In the first week of the Don Carlos Cemetery Management System project, the team focused on the initial planning and design phases, particularly for the system's prototype's user interface (UI). We worked closely with the Don Carlos Public Cemetery manager, conducting a comprehensive grave count and obtaining a hard copy of the cemetery map, which helped in partially developing the prototype.

Moving on to the second week, the team focuses on creating flowcharts for the system. The aim was to

visualize the system's functionality and processes, which is crucial for understanding its workflow and ensuring the development process aligns with the project's goals and objectives. Despite facing some challenges, the team successfully created the flowcharts to accurately represent the system's input, processing, and output cycles while following a user-centered design approach. The flowcharts are essential for the team to refer to throughout the project's development process.

During the third week, the team focused on planning, gathering requirements, and designing the database and we accomplished the design of the Don Carlos Cemetery management database according to the system requirements. The database design is essential for managing data related to cemetery records and transactions, integrating a financial system, and creating a mapping system for the cemetery.
The main challenge faced was the design of the System's database. The team had to ensure that the database design met the system requirements and can managed data related to cemetery records and transactions, financial information, and mapping. To address this

challenge, the team focused on gathering detailed system specifications, creating a backlog of tasks for the sprint, and dividing those tasks into smaller units to ensure a smooth development process for the system's interface design, financial tracking and recording module, and map visualization and grave location tracking.

**Now, I'd like to turn it over to Cedrick, who will continue to discuss the progress of our project and the demonstration of our prototype.**

**IMOHA NA DAYUN CEDRICK**

**Thank you, Simon. I am Cedrick, and I will continue to discuss the progress of our Don Carlos Cemetery Management System project.**

In the final week of this phase, it includes the development of the prototype for the Don Carlos Cemetery Management System. This prototype serves as a preliminary version of the system, showcasing the interface design, functionalities, and features that will be incorporated into the final system. The project timeline was revised due to the need for paper revision. This adjustment likely involved extending the timeframe for specific tasks or phases of the project to accommodate the changes made to the project documentation. The revision process ensures that the project aligns with the updated requirements and objectives

**PROTOTYPE**

Now let's proceed to the prototype. I will be demonstrating how our proposed system will look like from navigating and showing functionalities.

- By running the application, the first page that will show is the landing page, this is where we input the username and password so the user or the manager can log in and access the application.

- After they logged in on to the application, the manager can see the dashboard and side navigation where they can go to different pages such as deceased registry, POS, Plot Reservation, and Application Form.

- In the application form, the client, with the assistance from the manager/staff can now input the client's personal information such as their name, e-mail, contact number and more. For us to be able to communicate to the client, we will need their email and contact number so we will have options on how to communicate with them relating to their payment especially updates on transferring the remains of their relatives. Also in that same page, is the deceased information.

- By clicking confirm, the information will then be recorded into the database and will proceed to the plot reservation and payment.

- In the plot reservation window, which is also a part of the application form, the client can choose what grave type they will avail (if it will be an apartment, maosoleum and etc.), choose available locations, and if the client will pay partially or full payment for reservation. When everything has been set, everything will be computed and displayed in the right part of the screen.

In conclusion, the "Don Carlos Cemetery Management System" is not just a technological solution; it is a testament to our commitment to innovation, efficiency, and community service. Given that the cemetery of Don Carlos serves a population of 7000 individuals, We believe that our system can help the Don Carlos Cemetery management improve their

operational processes, provide better services, and enhance the overall experience for cemetery managers, clients, and relatives. Thank you for your time and attention. We hope that you find our project informative and useful.