In Partial Fulfillment of the Requirements for the Subject

CS152 (Human Computer Interaction)

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Part 2: Design Alternatives

Scenarios

Scenario 1: Father Michael's Efficient Record-Keeping

Father Michael, the parish priest, has long struggled with the time-consuming process of retrieving baptismal and confirmation records from dusty file cabinets. He often faces delays and frustrations when documents are misplaced or hard to locate. Upon adopting Grace Records, he experiences a transformation in record-keeping efficiency. Now, he can quickly access digital records with just a few clicks, ensuring parishioners receive their documents promptly and securely.

Scenario 2: Maria's Urgent Document Request

Maria needs a copy of her baptismal record urgently to complete her wedding preparations. In the past, this request might have taken days to fulfill due to the parish office's outdated system. However, with Grace Records, the parish secretary can instantly retrieve and email Maria her baptismal certificate, significantly reducing the waiting time and ensuring Maria’s special day proceeds smoothly.

Scenario 3: Parish Office's Record Security

The parish office has always been concerned about the security and preservation of important sacramental records. Physical documents were prone to wear and tear. By transitioning to Grace Records, the parish office now benefits from enhanced digital security measures, ensuring all records are safely stored and easily recoverable, protecting them from loss or damage.

Storyboard

Scenario 1

Scenario 2

Scenario 3

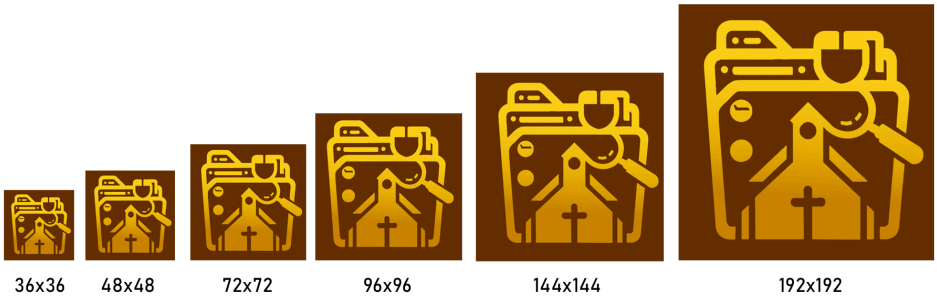
Project Description

Grace Records: Canonical Record Sorter, developed by Team CTRL, is an innovative digital database system designed to revolutionize the management of baptismal and confirmation records in parish offices across the Archdiocese of Davao. This project addresses inefficiencies in handling physical records, such as delays and misplacement, by transitioning to a centralized digital platform that enhances data retrieval, reduces administrative burdens, and improves security. With user-friendly features like robust search capabilities, record addition, viewing, editing, and deletion, Grace Records streamlines document management, ensuring efficiency, accuracy, and confidentiality. By adopting this system, parish offices can focus more on their core mission of spiritual guidance and community outreach, aligning with broader goals of digital transformation and sustainable practices.

Problem Statement

Many parish offices struggle with the inefficiency of locating baptismal and confirmation records due to reliance on physical files or outdated databases. This inefficiency results in time-consuming retrieval processes, causing delays and frustration for both parishioners and staff. Additionally, manual handling and storage increase the risk of important documents being misplaced or lost. Recognizing the critical nature of this issue, Grace Records was developed to provide a consolidated and organized system for storing and retrieving church documents. This solution enables parish staff to efficiently search for and access baptismal and confirmation records, ensuring prompt and accurate responses to parishioner requests. Consequently, Grace Records enhances the overall efficiency of parish offices and improves service quality, fostering greater trust and satisfaction within the community.

Application Icon Size Comparison



Design Space

What requirements may be difficult to realize?

Implementing robust data security and ensuring compliance with privacy regulations may be challenging. Grace Records needs to protect sensitive sacramental data from unauthorized access, breaches, and loss. Developing and integrating advanced encryption methods, secure authentication processes, and continuous security updates can be complex and resource-intensive. Additionally, migrating existing physical records into the new digital system accurately and efficiently without data loss or corruption presents a significant challenge.

What are some tradeoffs that you should or did explore?

One critical trade off involves balancing between a feature-rich application and maintaining a user-friendly interface. While adding comprehensive features like advanced search, detailed record editing, and extensive user access controls can enhance functionality, they may also complicate the interface, making it less intuitive for users. Another tradeoff is between development time and cost versus system performance and scalability. Opting for a quicker, cost-effective development process might result in a less scalable system, potentially limiting its long-term utility as parish needs grow.

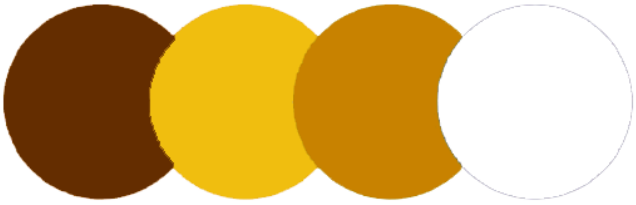
Which tasks will be easiest to support?

The easiest tasks to support will likely be the basic CRUD (Create, Read, Update, Delete) operations for records. Implementing functionalities that allow users to add, view, edit, and delete baptismal and confirmation records can be straightforward due to the well-defined nature of these operations and the availability of established patterns and libraries for database management. Additionally, developing a user-friendly interface with basic navigation and input validation can be achieved with relative ease, ensuring that the application is accessible and functional for parish staff from the outset.

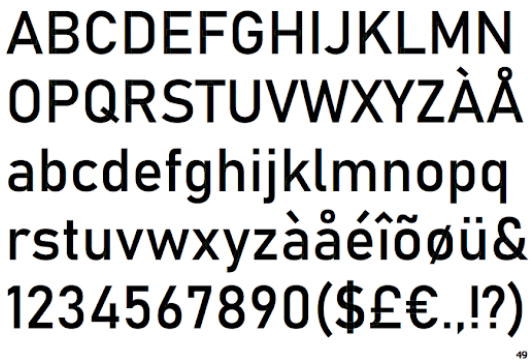
Design

The Grace Records application aims to revolutionize church record management with an intuitive and efficient interface. To achieve this, the following elements will be identified: Color Palette, Font Style, and GUI.

Color Palettes



Font Style



Bahn Schrift is a modern sans-serif font characterized by its clean, geometric lines and minimalist design. This typeface exudes a contemporary aesthetic, combining clarity with a sleek, professional appearance. Its balanced proportions and even weight distribution make it highly legible, suitable for both digital and print media. The versatility of Bahnschrift allows it to be effectively used in a variety of contexts, from formal documents and user interfaces to creative design projects. Its streamlined form and understated elegance make Bahn Schrift an excellent choice for achieving a modern, polished look in any application.

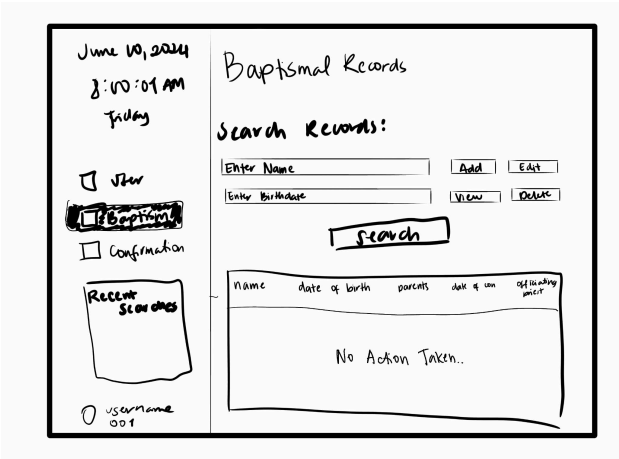
GUI

The team will be using computer and laptop GUI for the system since it will handle a large amount of files. The team will be adopting the GUI from photoshop for this system.

Sample Feature Flows

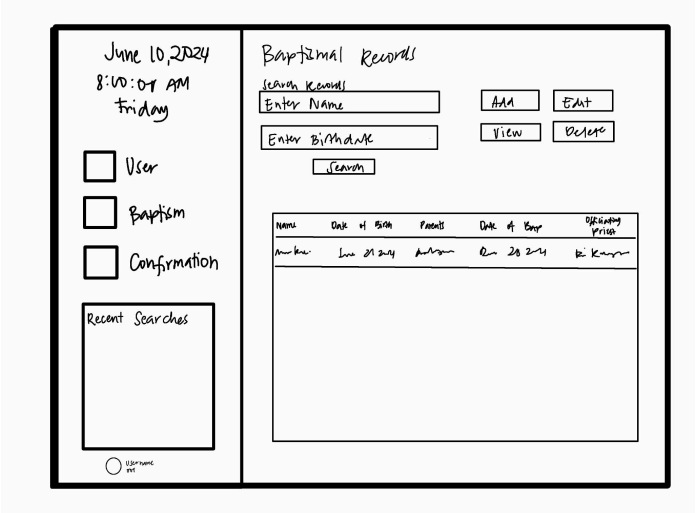
The team would like to showcase the sample flow of the system's features that can be seen in the system. These features are subject to change depending on the results of the survey.

Note: Baptismal and confirmation have the same flow and feature designs. The only change is in the table of details: instead of "Date of Baptismal," it will be changed to "Date of Confirmation" when the confirmation button is clicked.



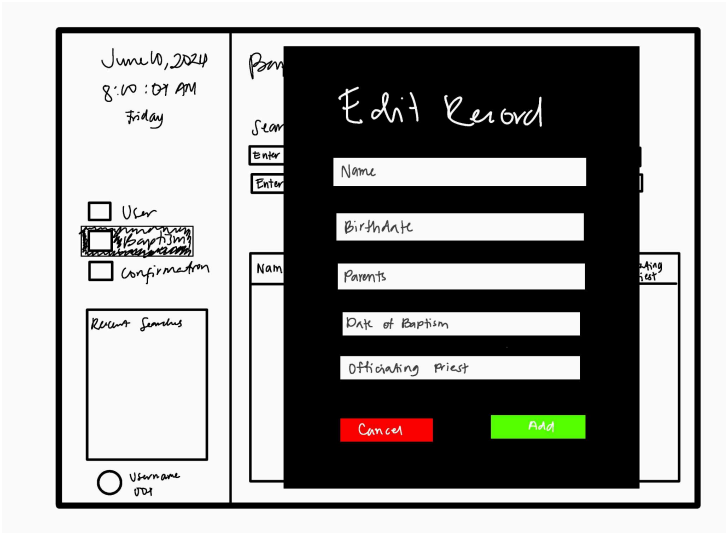
Sample Flow Login Page

Launch the Grace Record system. Representatives must activate and get their accounts from the Head Officers so that they can log in. Once the input details are verified, the user will be redirected to the main screen with a “No Action Taken” message as the default screen of the system if you haven’t clicked any buttons yet.



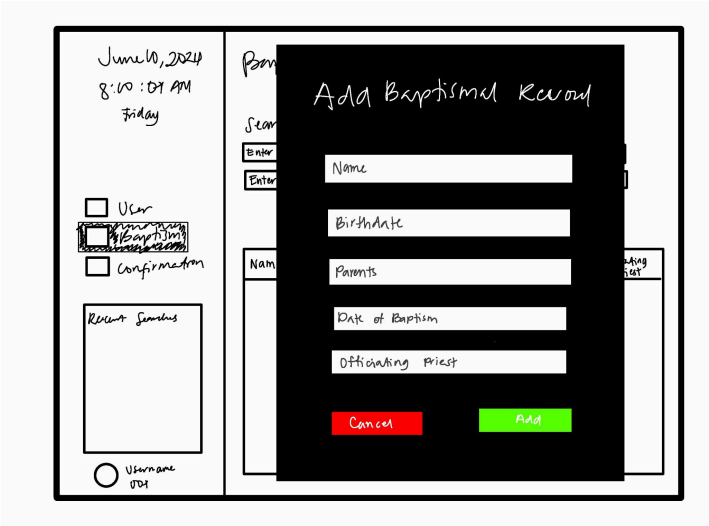
Sample Flow View All Page

When the "View All" button is clicked, the recorded details of the client will be displayed in the table.



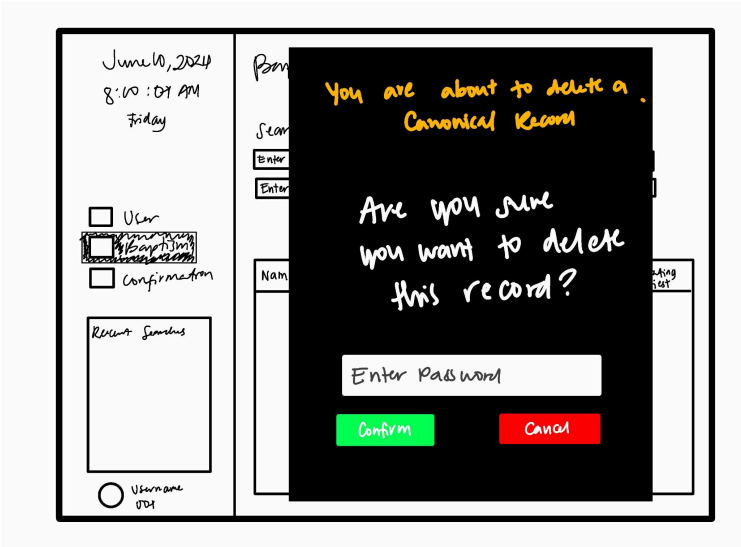
Sample Flow Edit Page

The user needs to select a record first before clicking the “Edit” button and update the client’s details. Then click the green button to confirm the action.



Sample Flow Add Page

When the "Add" button is clicked, the user will be asked to enter the details of the client. Click the green button to save and add the record to the system.



Sample Flow Delete Page

The user needs to select a record first before clicking the delete button. The system will then prompt a message and will ask for the user's password to confirm that they really want to delete the record.

Mock-up/Prototype

Figure 1: Once the user launches the system, they will immediately be asked to input their username and password. Click "Login" to be directed to the main screen.

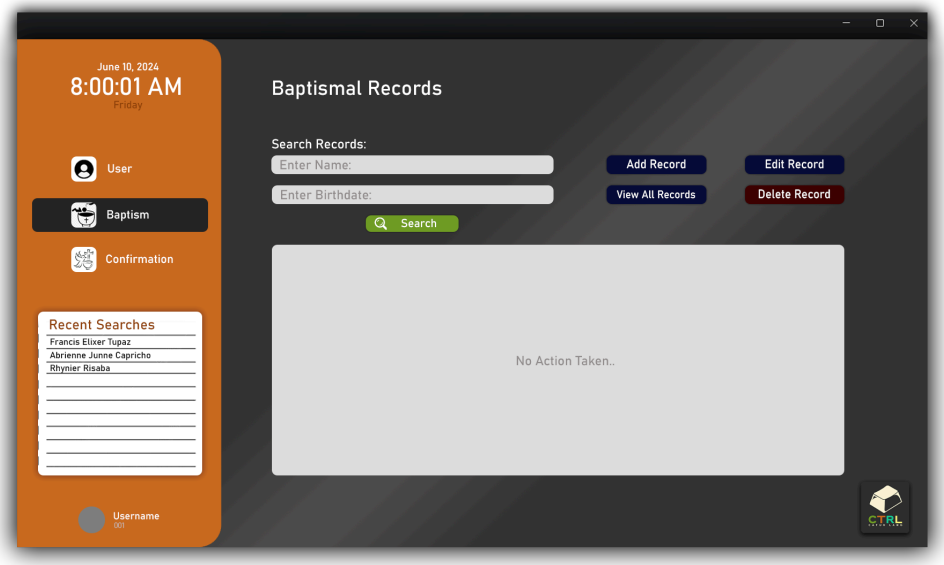


Figure 2: This is what the main screen looks like if the user has just logged in and hasn't clicked any buttons yet.

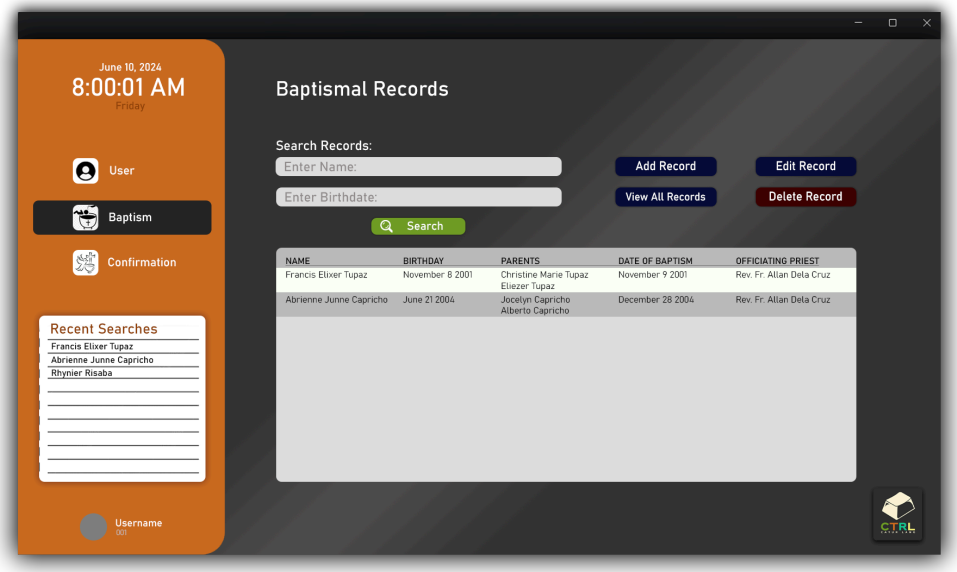


Figure 3: This is what the main screen looks like if the user clicked the “View All” button.

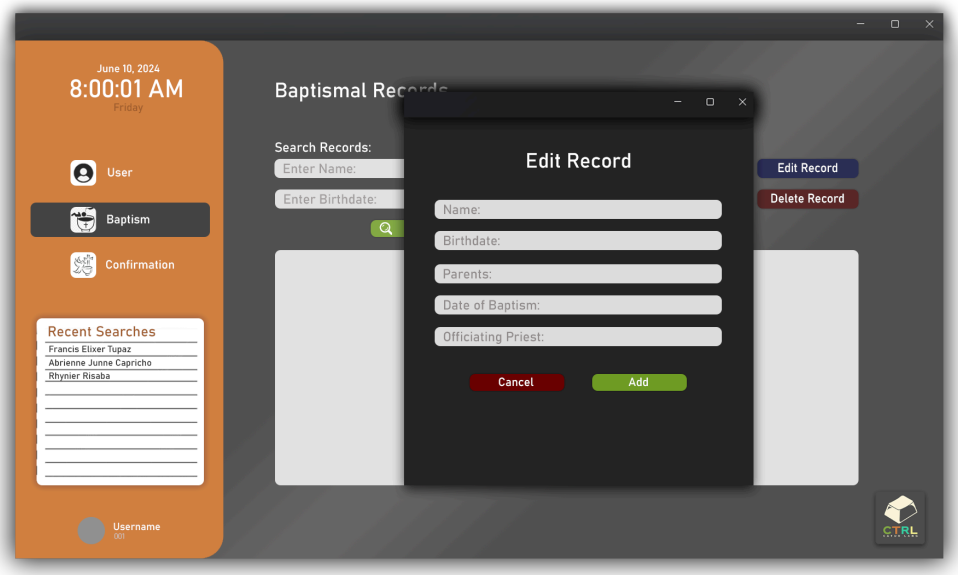


Figure 4: The user should search for and choose a record to edit before clicking the "Edit" button. After clicking, the system will ask the user to input the client's new details. The user should click the green button to confirm the changes.

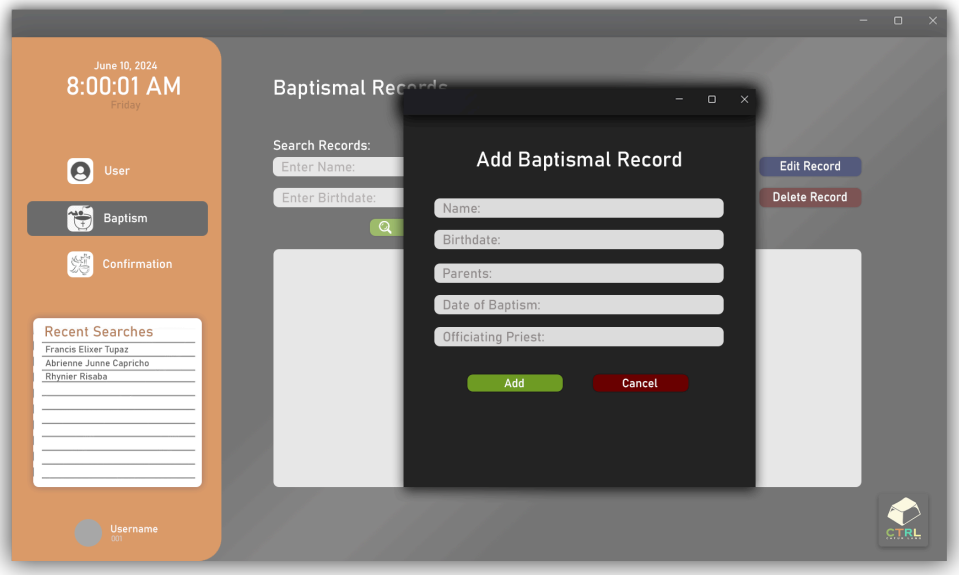


Figure 5: If the user wants to add a record, they should click the "Add" button and input the necessary details. The user should then click the green button to save the new record.

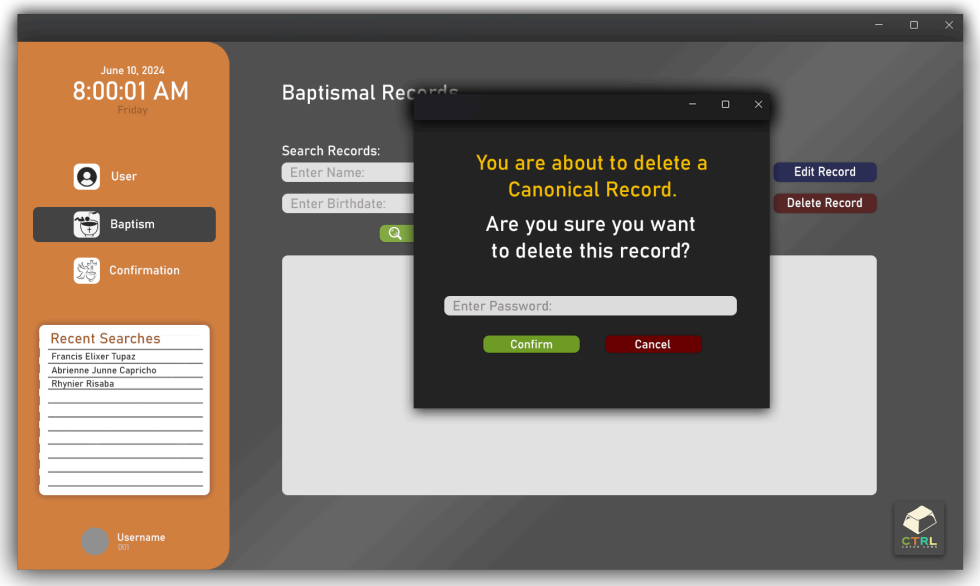


Figure 6: The user should search for and choose a record to edit before clicking the "Delete" button. Then, the system will prompt a message asking if the user is sure they want to delete the record and will request the password for extra security. Click the green button to confirm the action.