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BSIT – 3B

Proposal 1 : Development of a Web-Based Apartment Management System for Tenant and Rental Administration

Research Question : How can a web-based system improve the efficiency of tenant and rental management?

Focused Research Question : How can a web-based apartment management system improve efficiency in rental administration and tenant management?

Problem Statement / Encounter :

In traditional apartment management, manual record-keeping, inefficient communication, delayed maintenance requests processes create challenges for both tenants and landlords. Many property managers rely on paper-based documentation or fragmented digital tools**,** leading to data inconsistencies, administrative delays, and miscommunication regarding lease agreements, rent payments, and tenant concerns.

This study aims to develop and implement a web-based apartment management system that enhances efficiency in tenant and rental administration while providing real-time room availability monitoring. The system will automate record-keeping, communication, maintenance request tracking, and room availability status to address the inefficiencies of traditional apartment management.

Specific Objectives :

- Implement a real-time room availability tracking system to monitor occupied and vacant units for better rental management.
- Improve landlord-tenant communication through an interactive platform for inquiries, announcements, and complaint resolution.
- Increase accessibility and usability by developing a responsive web-based system for remote apartment management.

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Proposal 2 : A Barangay Digital Transformation: A Web-Based System for Data Management, Public Document Issuance and Services of Barangay Caliraya Municipality of Lumban.

Research Question :

What are the challenges faced by barangay officials in managing records and issuing public documents, and how can digital transformation address these issues?

Focused Research Question :

How can a web-based system enhance the efficiency and accessibility of data management and public document issuance in Barangay Caliraya?

Problem Statement / Encounter :

Barangay Caliraya currently relies on traditional, manual processes for data management and public document issuance, leading to inefficiencies, delays, and errors. Residents often experience long waiting times for processing requests, while barangay officials face challenges in organizing and retrieving records. The lack of a centralized, digital system also increases the risk of data loss and inaccuracy. This study aims to address these issues by developing a web-based system to streamline barangay operations, improve service delivery, and enhance data security and accessibility.

Specific Objectives :

- To develop a web-based system that digitizes barangay data management and public document issuance.
- To streamline the process of issuing barangay certifications and public documents for faster and more efficient service delivery.
- To enhance data security and accuracy by implementing a centralized and organized digital record-keeping system.
- To improve accessibility for both barangay officials and residents through an easy-to-use interface for requesting and processing documents.
- To reduce manual workload and administrative inefficiencies by automating common barangay transactions.
- To ensure the system complies with local government regulations and data privacy policies for secure and ethical implementation.

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Proposal 3 : EduCare: A Accessible Web – Based Platform for Special Education Learning

Research Question :

What is the impact of the proposed e-learning platform on the learning experience and engagement of differently-abled students?

Focused Research Question :

How can a web-based e-learning platform be designed and developed to effectively support the learning needs of differently-abled students through accessible and adaptive content, including the integration of YouTube video materials?

Problem Statement / Encounter :

Despite the advancements in technology, most online learning platforms are not fully accessible to differently-abled students, including those who are visually impaired, hearing impaired, or those with cognitive disabilities. Many platforms lack features such as captioned videos, screen-reader compatibility, and alternative communication methods like sign language. This gap in accessibility prevents these students from receiving equitable educational opportunities, especially in remote or blended learning environments.

Specific Objectives :

- To create a user-friendly platform where educators can upload and manage educational content, including YouTube video links with captions.
- To implement accessibility features, including text-to-speech, closed captions, and high-contrast display modes, to accommodate students with different abilities.
- To enable interactive learning tools such as progress tracking that are accessible to all students, including those with special needs.

Significance of the Study :

This study is significant because it addresses the educational gap faced by differently-abled students. The platform will:

- Help students with disabilities access learning materials anytime and anywhere.
- Support teachers and educators in delivering inclusive education.
- Serve as a model for future development of accessible e-learning solutions in schools and communities.

Potential Clients

- Parents and Guardians of Differently-Abled Students
- Special Education Schools and Institutions
- Private Tutors and Special Education Teachers

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Proposal – A Web Based Platform for "Caliraya Lakeside Water Refilling Station " Online Ordering System with Delivery Management with SMS Notification

Caliraya Lakeside Water Refilling Station has been a trusted provider of safe and clean drinking water in its community. However, with the increasing number of customers and deliveries, managing orders, tracking gallons, and organizing deliveries manually has become a challenge.

(*Problems Encounter*)

Currently, the business relies on handwritten logs for customer information, orders, and delivery schedules. This outdated method results in confusion in delivery assignments, lost gallons, and misplaced customer information, leading to customer dissatisfaction and operational inefficiencies.

(*Possible Solution*)

To address these issues, this capstone project proposes the development of a Web-Based Online Ordering System with Delivery Management and SMS Notification, a solution aimed at automating and streamlining operations, improving customer satisfaction, and minimizing losses.

List of Objectives

- To create a customer database that stores complete customer profiles and delivery history.
- To develop an online ordering system that allows customers and staff to place and track orders.
- To build a delivery management module that assigns deliveries to riders and tracks delivery status.
- To integrate SMS notifications to inform customers about order confirmation, delivery schedules, and successful deliveries.
- To develop a real-time gallon inventory system to monitor gallons in stock, dispatched, and returned.
- To generate reports and logs for orders, deliveries, and inventory for business analysis.

A Web Based Platform for "Caliraya Lakeside Water Refilling Station " Online Ordering System with Delivery Management with SMS Notification (NEW) Hello po maam i'll attached po file link po for more info's about the topic po https://docs.google.com/document/d/14wPpWSZd_rnIQY6x0WaXVF-oRdEG1wIdbcHHEO6jtKs/edit?usp=sharing