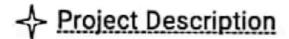
APPLICATION development process-lab

Assignment no. 1

Executive Summary Snanshot



A library was having trouble in getting & issues their books, so a library wants to automate it's book borrowing & returning process to reduce manual errors & improve efficiency. The library had to make a positive decision so that everyone could get the book. They used to write their records in register & it is difficult. People were not giving them books on time, so other people did not get a chance to read books. There were many readers in that library, so other people had to wait for those coming books. So library need a computer solution to make their work easier.

Analysis

The current library management system is outdated, inefficient, & lacks modern feature, leading to manual errors, & poor user experience.

Librarians , patrons & administrators require a user-friendly , efficient & scalable system to manage library resources & services

→ Findings

Automating manual processes can reduce errors by 80% & increase efficiency by 50%.

Implementing a modern library management system can reduce costs by 15% through improved efficiency, & reduce manual errors.

♦ Scope

User Management : Managing user accounts ,roles & Permissions

Circulation : Managing book lending , returns &

renewals

Stakeholder Scope-

Library staff: librarians, administrators, & support staff

Patrons: library users, including students, faculty & community members

IT department : technological support & infrastructure teams

♦ Proposed Process

- 1.Requirement Gathering(Weeks 1-4)
- 2.Sysrem design(weeks 5-8)
- 3.Software development(Weeks 9-20)
- 4.Testing & Quality Assurance (Weeks21-24)
- 5. Training & Deployment (Weeks 24-28)
- 6.Project closure(Week 29)

Project Description



Project Purpose

Automate library Operation : streamline & automat tasks such as cataloging, circulation, & inventory management to reduce manually errors & increase efficiency.

Support Library Growth: Design scalable system to accommodate growing library collections & user bases.

Reduce Cost: minimize manual labor, reduce error, & optimize resources, availability to reduce operational costs.

Improve user experience: provide a user-friendly interface for librarians

Solution

We can provide them a website base solution to make their work easier & then they can handle their library easily.

← Challenges

- 1.Technical challenge
- 2.Data related Challenges
- 3.User adoption Challenge
- 4. Financial challenge
- 5.Project Management Challenge
- 6.Custonization Challenge
- 7. Testing & quality assurance challenge

Why take the Project

Improve efficiency: Automating library operation & providing a user-friendly interface will streamline processes & reduce manual error

Cost saving: a cloud -based system will reduce hardware & maintenance costs, & improve scalability. Enhanced Security: A cloud -based system will provide robust security measures to protect sensitivity patron & library data.

By taking this project, library can improve its operations, better serve its patrons & support its strategic goals.

Project Scope



Specific Goals

- 1.Implement a modern & efficient library management system
- 2.Improve patron experience through a user friendly website & online platform
- 3.Enhance library operations & reduce manual error
- provide advanced reporting & analytics for informed decision making.

-√Tasks

- 1.Need assessment & requirements gathering
- 2. system selection & configuration
- 3.Data migration & integration
- 4. Website & online platform development
- 5. Training & testing

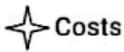
6.deployment & launchS



Deliverables

Some Deliverables for the library management system

- 1.software deliverables
- 2.Documentation Deliverables
- 3.training deliverable
- 4.Data Deliverable
- 5.Infrastructure deliverable
- 6.Testing & quality assurance deliverable



Software & licensing-\$70,000

Hardware & infrastructure-\$40,000

Training Support-\$35,000

Project management-\$25,000



Deadline

1.Need assessment & requirement gathering-4Weeks

- 2.System selection & confirmation-8weeks
- 3 .Data migration & intergration-6Weeks
- 4.website development-6weeks
- 5. Training & testing-4weeks
- 6 Deployment & launch-2Weeks