

APPLICATION development process-lab

Assignment no. 1

Executive Summary
Snapshot

✦ Project Description

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The current library management system is outdated , inefficient , & lacks modern feature , leading to manual errors , & poor user experience.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(Weeks24-28)
- 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. Customization 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
4. 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 & launch



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



Costs

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
