# Online Book Store

Project Proposal

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# ❖ Introduction:

This is project proposal is about developing a website for Online Book Store. Our website of Online Book Store will be a place where people from all around the world should be able to buy books of their choice. It provides the user with a catalog of different books available for purchase in the store. In order to facilitate online purchase a shopping cart is provided to the user. This document contains high requirements, user stories, phase wise development outline and expectations of the project.

The objective of this project is to develop an e- book store where books can be bought from the comfort of home through the internet.

An online book store is a virtual store on the internet where customers can browse the catalog and select books of interest. The selected books may be collected in a shopping cart. At that time, more information will be needed to complete the transaction. An e- mail notification will be sent to the customer as soon as the order is placed.

# ❖ About Us

This Project is for the course CSE 299, titled "Junior Design". It is an introductory design course to introduce the basics steps of design project implementation. It is a multidisciplinary team work. Therefore, we are a team of four people willing to work together as a team in order to design a web based project effectively and efficiently.
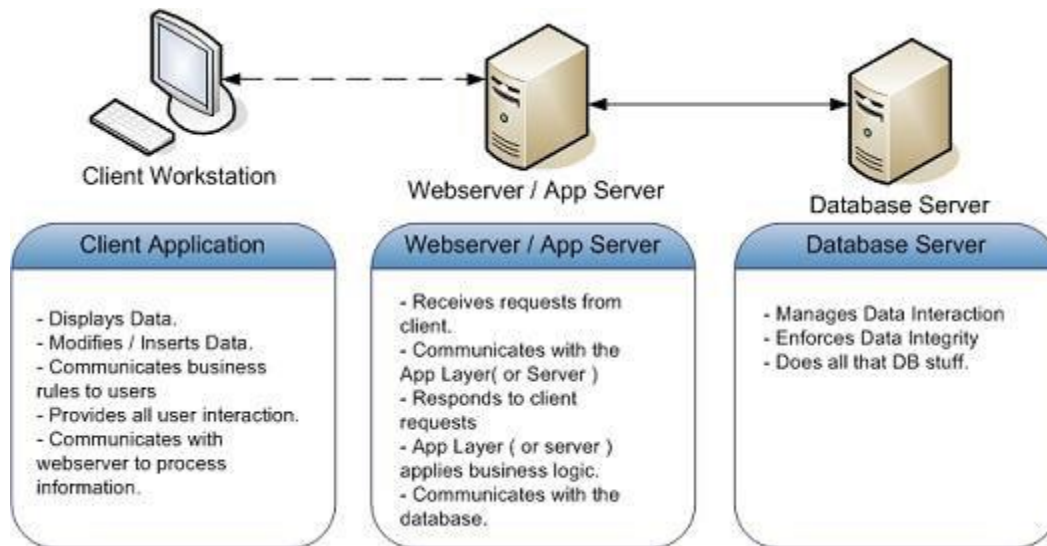
## ❖ Background

Software development in recent times, has reached the highest peak of improvement in terms of design and standard. People all around the world are given knowledge about software ethics. As the advantages of software is increasing day by day, few disadvantages are arising too. However, for this reason people are studying more about software security.

In this fantastic and yet sometimes complex world of software development there are some tried and true architecture patterns and software development guidelines employed by most architects. Web services are one such area where architects must lean on their creative side and hope that their solutions are still successful. In this document we will give an outline of the exciting voyage down the road of Web services application. From requirements to database design, to component frameworks, to user interfaces, we will mention each and every aspect of system design required to build an application with collaborative Web services.

## ❖ Architectural Plan:

The architectural plan for Online Book Store will have three parts.

- Client Workstation
- Web Server – Apache, PHP
- Database Server

We will use Bootstrap as the front-end framework and MySQL as the back-end database.

## ❖ Use-Cases:

*Use-case description for Login:*

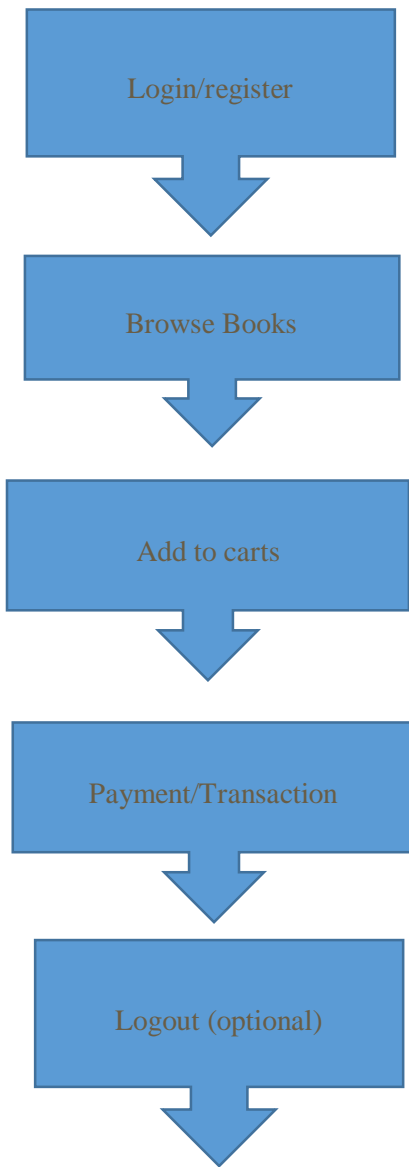| Actors: | Administrator and User |
|---|---|
| Description: | User or admin wants to login. |
| Pre-Conditions: | Admin or user must exist in the database. |
| Post-Conditions: | Admin and user are logged in |
| Main view: | • Login page is displayed<br>• Admin or user will enter their credentials<br>• User or admin are redirected to their designated pages<br>• If the credentials enter does not match with the data stored in database, the system displays an error message. |

*Use-case description for User registration:*

| Actors | Buyer |
|---|---|
| Description: | Buyer wants to buy book. |
| Pre-Conditions: | • Buyer must not exist in the database<br>• Buyer must enter enough information to register. |
| Post-Conditions: | Buyer should have an account to buy books. |
| Main view: | • Buyer connects to the respective page and clicks into the registration form.<br>• Fills up the registration form.<br>• System displays confirmation message.<br>• Buyer is able to view his/her profile.<br>• If the buyer is already registered, and the data exists in the database, the system will display an error message. |

*Use-case description for searching books:*

| Actors: | User |
|---|---|
| Description: | User wants to search books. |
| Pre-Conditions: | User must be registered. |
| Post-Conditions: | The book search is found. |
| Main view: | • The user logs in.<br>• User searches for a book<br>• System displays categories of books<br>• If the user searches for a book which is not in the database, the system displays an error message. |

## ❖ Flow Chart:

```
┌─────────────────────────┐
│                         │
│     Login/register      │
│                         │
└─────────────────────────┘
              ▼
┌─────────────────────────┐
│                         │
│      Browse Books       │
│                         │
└─────────────────────────┘
              ▼
┌─────────────────────────┐
│                         │
│       Add to carts      │
│                         │
└─────────────────────────┘
              ▼
┌─────────────────────────┐
│                         │
│   Payment/Transaction   │
│                         │
└─────────────────────────┘
              ▼
┌─────────────────────────┐
│                         │
│     Logout (optional)   │
│                         │
└─────────────────────────┘
              ▼
```

## ❖ Features:

This website will have Administrator Panel and Customer Panel.

- Admin Panel:

    1. Add/Edit Book
    2. Manage Customers

- Customer Panel:

    1. Customer Registration
    2. Browsing (Searching Books)
    3. Customer Profile
    4. Shopping Cart

## ❖ **Front-end Plan:**
1. Main Page
2. Customer Login Page
3. Customer Registration Page
4. Customer Profile Page
5. Admin Login Page
6. Add/Edit Book Page
7. Book Details Page
8. Shopping Cart Page
9. Data Entry Page

## ❖ **Back-end Development Plan:**
1. Account Creating
2. Registration form
3. Login
4. Forgot Password
5. Customer Profile
6. Admin Profile
7. Book Details and others
8. Filters
9. Access control and comments

## ❖ Development Plan:

Development methodology will adopt agile methodology. Each development will be made and a working software version will be released and tested.

*Duration:* Total 7 weeks for development and 2 weeks for final development.

## ❖ Deliverables:

At the end of this phase, customer will receive a fully developed functional website with acceptable performance and user experience.

## ❖ Project Schedule:

### Project Work Timeline

| Week | Work |
|------|------|
| 01 | Project planning, design back end |
| 02 | Sketch front end, design database-diagram |
| 03 | Database creation full in MySQL |
| 04 | Create all basic webpages, data entry page, footer, header, link all |
| 05 | Sorting and filters coding PHP+HTML |
| 06 | User access controls, comments |
| 07 | Data entry of books and others |
| 08 | Creating pop-ups, animations, auto timings |
| 09 | Testing and Bug fixing, Presentation preparation |

### ❖ Ownership:

We decided to divide our project into two major parts while working on it.

The first part is the Front-end design and other one is the Back-end design.

Since, we are a group of four people we decided that two of us will be working on the front-end and remaining two on the back-end.

According to our **Project Schedule**, we sorted our tasks which is shown below:

| Week | Work | Ownership |
|---|---|---|
| 01 | Project planning, Back-end design | Project Planning- Shadman S. Khan<br>Back-end Design- MD. Shaheduzzaman Shahed |
| 02 | Front-end sketch, Database diagram design | Front-end sketch - MD. Minhazul Islam<br>Database diagram design – Salsavil Kayyum |
| 03 | Create database using MySQL | *4 tables to be created: admin, user, book and sell*<br>**admin table**: Shadman S. Khan<br>**user table:** MD. Minhazul Islam<br>**book table:** MD. Shaheduzzaman Shahed<br>**sell table:** Salsavil Kayyum |
| 04 | Create all webpages | **Front-end designing using**<br>**Bootstrap-** Shadman S. Khan<br>**jQuery-** MD. Minhazul Islam<br>**Back-end designing** - MD. Shaheduzzaman Shahed |
| 05 | Sorting and filter coding PHP + HTML | Md. Minhazul Islam |

| 06 | User access controls | Salsavil Kayyum |
|----|----------------------|-----------------|
| 07 | Data entry of books and others | MD. Shaheduzzaman Shahed, Salsavil Kayyum |
| 08 | Creating pop-ups, animations, auto timings | Shadman S. Khan, MD. Minhazul Islam |
| 09 | Testing and Bug fixing, Presentation preparations | **Login Testing**- MD. Minhazul Islam <br> **Browse Testing**- Shadman S. Khan <br> **Transaction Testing**- Salsavil Kayyum <br> **Database Testing**- MD. Shaheduzzaman Shahed |

\*\* We are using GIT Kraken software and BIT BUCKET to maintain a better and efficient communication among each other while working through each phase of the project.