System Requirement Specification for Boi Mela Service

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Introduction

The purpose of this document is to specify the requirements and preview some elements of the analysis model of the web application "Boi mela". The web application is designed to help book lovers walk through a virtual boi mela, that is, a month long annual book fair organized on the premises of Bangla academy. "Boi Mela" web application is aimed to guide readers and inform them about the latest book releases, provide a navigation to their favorite book stores, look up for books by individual genre etc. The application is created for book lovers of all age groups, and has been designed to help ease the navigation and experience of visiting the book fair.

Overall Description

1. User roles and characteristics:

- Physical Actors:

Owners: Stall owners of the book fair will create an account that is, they will sign up and have their own profile from where they will upload the name, genre and pictures of the books that they published and displayed at the boi mela.

- System Actors:

Client: Client is the system that connects to the server and will fetch data and bring necessary changes.

Server: Server will accept connections from clients and save the results.

Database: Store data

Database editor: Database editor will hold all the necessary database tools and make changes to the names of the books, genre name, book pictures and other necessary changes required.

Overall Description

2. Server Operating System:

The program will operate on most popular operating systems that support internet connection as it is a web application. Will work on Apple IOS, Microsoft Windows as well as Linux.

Features/Functional requirements

- System Feature Owner Sign Up: REQ1

Stall owners can register or sign up using their respective email address, and necessary information about their stalls and publishing houses. The owner will be sent a confirmation email and once they verify, they can update their stall information and can login using their username and password.

Priority: High

Features/Functional requirements

- System Feature User Sign Up: REQ2

Users or bookworms can sign up or register using their respective email account, or using their social media, facebook account or twitter account. The user will be sent a confirmation email and once they verify they can change their password, update their profile information and can login using their username and password.

Priority: Medium

Features/Functional requirements

- System Feature Look Up Books By Genre: REQ3

Users can search for newly released books by their preferred genre. The user can search by typing the name of the genre and the matched results will be displayed and the user can see the name of the book and the name of the stall where the book is available.

Priority: High

Features/Functional requirements

- System Feature Latest Book release: REQ4

The users can see the name genre and author name of the latest released books under the tab for Latest book release. The books which have been released recently will be categorized by the order of their release dates. The users can see the name of the stall where the new released book is available.

Priority: High

Features/Functional requirements

- System Feature Navigation: REQ5

The users will be able to see a detailed map of the book fair premises, and where a particular stall is located and the path leading to it. In addition, users will also be able to see food stalls and other significant places of the book fair.

Priority: High

Features/Functional requirements

- System Feature Foods Page: REQ6

The users will be able to see the available food places/stalls in the book fair and the path leading to them in the available map. In addition, the user will be able to rate and review the individual food stalls for other users to see.

Priority: Medium

Features/Functional requirements

- System Feature Book rating and review: REQ7

Users will be able to rate and review the books that are available in different stalls. Once logged in, the user will be able to share their book reviews for the others to see, however, non registered users will not be able to share book reviews.

Priority: Medium

Software Requirements Specification

Non functional requirements

Performance

- Performance is particularly key for web applications. For web-based applications the chief performance criterion is response time. The following major factors affect response time:

- 1.   Limited bandwidth

- 2.   Server or network capacity

- 3.   Server traffic

- 4.   Application processing constraints

- In the web environment many of these factors are outside the scope of the application and will always be an issue. However, to minimizing these issues is possible by keeping a focus on performance from requirements through to implementation. The key aim is to avoid unnecessary complexity or overhead that could further degrade performance.

Safety/Security

- A key operational requirement is security.
- Most security measures are based on the following concepts and these will be guided throughout the system design of the application:
- 1.Authentication   2. Authorization

  3. Data protection   4. Auditing
- There are several tangible requirements that should be part of security policies,
- a.Password length and other requirements
- b.Login policies and auditing
- c. Ownership/ responsibility for user accounts
- d. Policies for encryption

Quality Attributes

- Extensibility

- Flexibility

- Adaptability

- An extensibility objective might be to ensure that future enhancements to an application can be easily and quickly implemented.

- The program should also have proper performance so that it's user friendly and responsive.

Environment

- Regulatory Policies: No regulatory policies are applicable for this project;

- Interface to other Applications: The application will be connected to some other specific application.

- Audit Functions: Audit function is required for this application;

- Reliability Requirement: No specific reliability requirement is provided.

- Criticality of the Application: The requirement of user can be changed. So system needs to be designed in such a way that additional features can be implemented later.

- Safety & Security Consideration: The user has to log in to the application to use the functionality. Different user has different access to the functionality of the system.