**Project Proposal**

**Title: Boi Mela Web Application**

**Course:** CSE327 (Software Engineering)

**Section:** 4

**Submission Date:** 17/10/2019

**Faculty:** ABH3

**Group Members:**

Sakib Ahmed - 1712442042

Talha Yamin - 1712731642

**Boi Mela Web Application**

**Overall Description -**

The web application is designed to help book lovers walk through a virtual boi mela. Aimed to guide readers and inform them about the latest book releases, the site provides a navigation to their favorite bookstores and search for books by individual genre. It is designed to help ease the navigation and experience of visiting the book fair as it is crowded and providing a technological solution to this end would be worthwhile.

**Stakeholders –** Stakeholders include end-users who interact with the system and everyone else in an organization that may be affected by its installation.

1) Customers

2) Book Stall Owners

3) Food stall owners

4) Bangla Academy Administration

**Questionnaire**

**Questionnaire to Book Stall Owners:**

1. Who are the users?
2. What are the benefits for them?
3. What is the purpose of implementing this website?
4. What functions are required?
5. Would you like to showcase all the books you are selling?
6. Would you like to show the bestselling books?
7. Would you like people to see where your stall is located?
8. Would you like a sign-up feature?

**Questionnaire to Customers:**

1. Would you use this service?
2. What services would you like there to be?
3. Would you want to search books?
4. Would you want to review foods?
5. Would you want to see the latest or popular books first?
6. Would you like to see a map of the fair?
7. Would you like to leave reviews of books?

**Questionnaire to Food Stall Owners:**

1. Would you like the website to showcase your foods?
2. Would you like people to see pictures of your foods?
3. Would you like people to see where your stall is located in the fair from the website?
4. Would you like people to leave reviews of your foods?

**User Stories**

**From Customers:**

1. “I Rafsan, as a customer, want an online version of the book fair as it will save a huge amount of time”

2. “I Anis, as a customer, want to be able to go through all the books available in book fair before I even go there”

3. “I Mahin, as a customer, want to be able to check all the new book releases”

4. “I Bulbul, as a customer, want to be able to search the book I want from the book fair”

5. I Shoeb, as a customer, want to be able to search for a book by genres from the book fair”

6. “I Nahin, as a customer, want to be able to see a map of the book fair and see where each stalls are located so I can plan everything beforehand”

7. “I Mohit, as a customer, want to see reviews of all the food stalls available”

8. “I Sahid, as a customer, would want to check reviews on books on what to buy or what’s good”

**From Stall Owners:**

1. “I Mr Shahid, as an owner, want a website to showcase all my products as this will bring in customers”

2. “I Mr Nahid, as an owner, want a more interactive relationship with our customers through the website”

3. “I Mrs Baylen, as an owner, want a website where I can sign up and edit how I want to”

4. “I Mr Farid, as an owner, want the website to be simple so as to bring more customers”

5. “I Mr Putul, as an owner, want a website where it would show the bestselling books and where to buy from”

**From Food Stall Owners:**

1. “Mr Phonet, as an owner, want the website to feature the best foods available in the fair”

2. “Mr Yaba, as an owner, want users to be able to leave reviews of our food as this will bring in more customers”

3. “I Mr Sharif as an owner want to show pictures of our foods on the page”

4. “I Mr Fahim as an owner want to show the prices of our food”

5. “I Mr Nahin as an owner want to users to see where our stalls are in the fair through the website this will help customers find stalls easier”

**From Bangla Academy:**

1. “I Mr Moin want the website as this will bring in more people”

2. “I Mr Gani want the website as it will bring more people to read Bangla books”

**Task breakdown-**

1. Create Sign up
2. Login page
3. Interactive interface
4. Names and pictures of books from stalls
5. Make Search option
6. Provide Map
7. Book rate and review
8. Food review segment

**Functional Requirements –**

1) Sign Up - Users will sign up using their respective email accounts. The user will be sent a confirmation email and once they verify it, they can login using their username and password, change their password and/or update their profile information. This lets them access the different review sections.

2) Search Option - Users can search for newly released books by their preferred genre. and the user can see the name of the book and the name of the stall where the book is available.

3) Latest Book release - Users can see the name, genre and author name of the latest released books under the tab for Latest book release. As before, users can see the name of the stall where the newly released book is available.

4) Navigation - Users will be able to see a detailed map of the book fair premises, where stalls are located and the path leading to it.

5) Foods Page - Users will be able to review the individual food stalls for other users to see.

6) Book rating and review - Users will be able to review the books that are available in different stalls.

**Non-Functional Requirements – The use of Django helps to make the following possible.**

1) Users, both stall owners and visitors, will sign up using their email accounts. There will be a minimum requirement for creating their passwords for security reasons.

2) Search will be done by typing the name, genre or author of the book and matched results will be

displayed

3) The books which have been released recently will be categorized by the order of their release dates.

4) For Navigation hovering over stalls will make an overlay pop up showing the stall name and books of that stall. Clicking on the stall will take us to the stall’s page.

5) Food reviews can be given by users within a fixed number of characters without signing up. They just have to Include their email and Phone number.

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**Task Delegation -**

Week 1 - Complete and Fully understand usage of the tools, listed below, needed to be used.

Week 2 - Design the Database. Create Classes, Models and Construct Entity Relationship Diagram.

Week 3 - Registration for new users and create user profiles. Authentication for User signup. Login, logout System for registered users

Week 4 - Create the Dashboard and enable Crud(Create, Read, Update and Delete) operations for users.

Week 5 - Design the Front End. Landing page of the site will be created. Latest Book Releases and other tabs will be included.

Week 6 - Search feature and map Navigation.

Week 7 - Full deployment and Submission.

**Work Distribution:**

Pair programming done by both team members. Front End mostly handled by Talha Yamin. Back End mostly handled by Sakib Ahmed.

**Tools Used:**

Front End - HTML5, CSS3, Bootstrap, jQuery, JavaScript

Database - SQLite

Backend - Python and Django Framework

GitHub Repository Link - <https://github.com/TalhaYamin171/Boimela-Project-CSE327>

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