



CS 353

DATABASE SYSTEMS

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PROJECT PROPOSAL

Group Members

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1. Introduction

The project that will be developed is a web based online site for book readers. The primary objective of this paper is declaring the specifications of the project and briefly describing the general features of the system to be designed and implemented.

Afterwards, the paper will examine the importance of database and how it will be used within the system. The requirements and the limitations of the system will be explained in detail.

1.1 Description

We will implement a kind of social network platform which provides users' wide assortment of books from different writers and different titles. We are planning to implement this web page to gather book readers by creating social platform. There will be mainly four categories in the website which are "Wall", "Books", "My Profile" and "My Books". Each category will have smaller sub-categories such as have read, to read, currently read, friend list and so on, according to category type sub-categories may change. Main page will also enables user to see directly top rated books.

When user click on the book in any list, book features will be shown and user can reach book details in this page. For instance writer name, picture of the book, publisher name, published date, rating, comments and also brief description of the book will be shown in the page. User can search any book by filtering writer names, ratings or titles. Also, in order to add any book to his/her book list, vote on or comment on book, user should register to web site by providing several personal information and s/he should be logged in to participate the social networking process for book readers. Users can reach the main page of the web site and also all book list product pages without login.

The website main page will also have “Register” and “Login” buttons. Basically, register button will be open registration page when it is clicked. User should provide several information in order to register to the website such as full name, valid email address, password, birthday and phone number. After user complete registration phase s/he can confirm her/his email address and password through popup login window that will be open after clicking login button. If user successfully logged in s/he can start to use the system.

In main page there will be also “My Books” button that allows user to see detailed information about her/his books with specified with three option; ‘Have read’, ‘Currently reading’, ‘To read’. “My Profile” button includes personal information of user in addition to number of listed books. Each user can add other users as a friend or delete them. Additionally, all added friends shown in friend list on the ‘My Profile’ page.

Moreover, “Search” button will be provided for making search with keyword and books that includes the keyword in their description or writer name or book title will be returned as a result book and all result books will be shown in new page.

1.2 Why and How Database

Dealing with big data was always a vital part of programming and still continue to carry its importance. To handle the keep and modify those big data, we need database. In most of today’s programming, database is used. When we consider our project, we also need to benefit from database. In our project, there will be lots of users who have lots of different data to consider. Moreover, there should be lots of various products with different contents. There will be employees that is responsible of some jobs. All in all, in our project, there will be huge data that we should consider. As a result, core of the website will be database.

Database enables us to organize the data that we need to collect and store it. We will connect our entities for that purpose. When any addition, subtraction or modification needed in database, it will be easy to change everything related to this change. Moreover, it will be also easy to search in database. We will use queries to achieve all of these.

2. Requirements

2.1 Functional Requirements

- The system will keep readers, books, comments and rate records.
- The system will keep full name, email address, password information of readers.
- The system will keep name, surname, email, date, phone number and profile picture of each user.
- The system will store publishing steps of the book when it is published or removed.
- The system will store user comments.
- The system will keep book description, writer, type (fiction, scientific), published date and publisher information(name, picture)
- The system allows user to write multiple comments within the day.
- User can make one comment for a book, this comment can be seen on the user's profile page and his/her friends' wall.
- User should confirm her/his email address with and confirmation code that will be sent her/his email address.

2.2 Non-functional Requirements

- As long as there is internet connection, availability will be continuous, for 24 hours-7 days.
- Security of readers will be protected so system should be robust.

- The response time of the system should not be higher than 3 second.

3. Limitations

- User cannot write more than 1 comments for specific book.
- Comment length cannot be more than 550 characters.
- A reader cannot add more than 8 books as “have-read” in a day.
- Only Turkish and English characters will be provided.

