

*Ahsanullah University of Science & Technology*

Department of Computer Science & Engineering



# Reading Cat

CSE 3200

Software Development Lab-V

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### **Problem Analysis:**

Observing lots of people around us have made us notice that, among us, are numerous talented people, who have excellent writing skills but do not have proper recognition, because of scarcity of platforms in which they can initially promote their books. On the other hand, there are many book worms who would like to have a more convenient way of reading new books. We have decided to build our website, Reading Cat, keeping these two things in our minds. We felt like, this could be a platform where readers can get the opportunity to read the books of unpublished writers and give them feedback, and writers will get a platform to publish their books online. Here, new writers need not worry about the rigorous process of finding a publisher to bring their book to the market. They can completely concentrate on writing good stories, submitting it to our admins, and if their stories meet all our policies, such as if their contents are free from racism, sexism, cultural or religious attacks, then they can be sure that their stories will get published. The feedback they get from their users will help them grow as more professional writers by improving their skills, while good and appreciating comments, along with good ratings will encourage them to write more.

This website is primarily targeting to help the rising writers to keep up their enthusiasm, and to not get demotivated or discouraged, while getting constructive feedback at the same time. They will not have to worry about not getting enough publicity because of the already established writers in the field.

Secondarily, but not any less important than the primary goal, we are willing to provide the readers of this platform a wholesome experience of reading books of different writers. They will be able to browse the platform, read the books they find interest in, and leave comments and reviews on them as well.

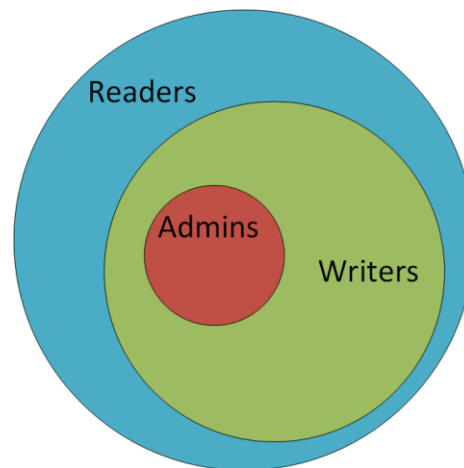
### **Design/ Development of Solutions:**

Reading Cat will have different features. The features can be divided into three categories:

1. Features without login
2. Features for readers
3. Features for writers
4. Features for Admin

Here, we should mention that, all members of our website are readers, and all of them will be able to write books. So, we can say that, all writers are readers, but not all readers are writers, although they can become a writer whenever they want to. Thus, it is implied that, the writers will be able to enjoy all the features of a reader, with some additional features of their own.

The same thing can be said for the admins. All the admins in this platform are readers as well. Only an admin can add another already existing members as admins. They have some features unique to them, while having all the features of a reader. Admins can also start writing if they want. So, this set of people will be able to enjoy the most features.



### **Features without login:**

Without logging in, users will be able to view the home page of our website. There is a login and signup option on the home page, along with our new release and hottest stories list. They will be able to search for books, genres or username. They can also view the details of a book, the comments added on a book. Apart from this, they can also view the profiles of different users.

### **Features for Readers:**

1. The users will be able to register and login into our platform. The registered users' passwords will be hashed and saved into our database to maintain security. All the usernames and email IDs must be unique. The registration process has some constraints, such as, the username must be of at least 6

characters, password must be of 3 characters to the very least, and the email ID must be a valid one.

2. They will be able to browse and search different books by the names of the books or by tags and categories. They can also search users by name.
3. They will be provided suggestions based on their favourite tags and previously read books.
4. They will also be provided suggestions based on the most popular reads of the platform.
5. They will be able to skip and switch between the chapters of a book.
6. The readers will be able to comment on a book.
7. They will be able to follow other members of the website
8. They will be provided suggestions about people they may follow.
9. There will be a night mode, so that the users can read/write comfortably at night

#### **Features for Writers:**

1. Readers can also write and publish their books on this platform. That is, in our platform, a reader can also be a writer.
2. They will be able to write as many books as they want. They must add a title, book cover, genre and book summary for each book.
3. They will be able to add new chapters in their in their books and submit the new chapters for admin review.
4. If the admin approves, the chapter will be visible to the users of the website.
5. If not, then the chapter will be deleted permanently.
6. They will be given information about how many times their books have been read. This information will be public to all the users.

#### **Features for Admins:**

1. Any new chapter published by a writer will go to the admins for reviewing.
2. An admin can approve or disapprove a chapter.
3. If a chapter is approved, it will be visible to all the readers.
4. If a chapter is disapproved, it will not get published.
5. An admin will be able to add existing members as admins.
6. They will also be able to introduce new genres in the website.

### **Modern tool usage:**

1. **Front-end tools:** We have used HTML, CSS, JavaScript and Bootstrap for designing the UI. ASP.NET has been used for both front-end and back-end, depending on the requirement.
2. **Back-end tool:** C# has been used as the back-end language.
3. **Database tool:** For database, we used SQL server.

### **Project Management and Finance:**

Since we are not paying the writers to write new books, the only maintenance cost we have is that of web hosting. The highest paid SSD Hosting we have found so far is the Turbo package of a2 hosting, which is 1600 bdt per month. Initially we have no intention of making profit from this website so all the books can be read for free. But in the future, writers can charge each reader to read a book, from which we will take a small percentage to bring our profit at least to a breakeven point.

### **Investigation:**

On researching about available book reading websites, we came to realize that, there are not many platforms in which new writers get the opportunity to write books. Reading Cat is letting its users enjoy this feature, which helps promote creativity among the readers. Although, this is an online book reading platform, our main goal is to filter out the good writers and help them improve themselves.

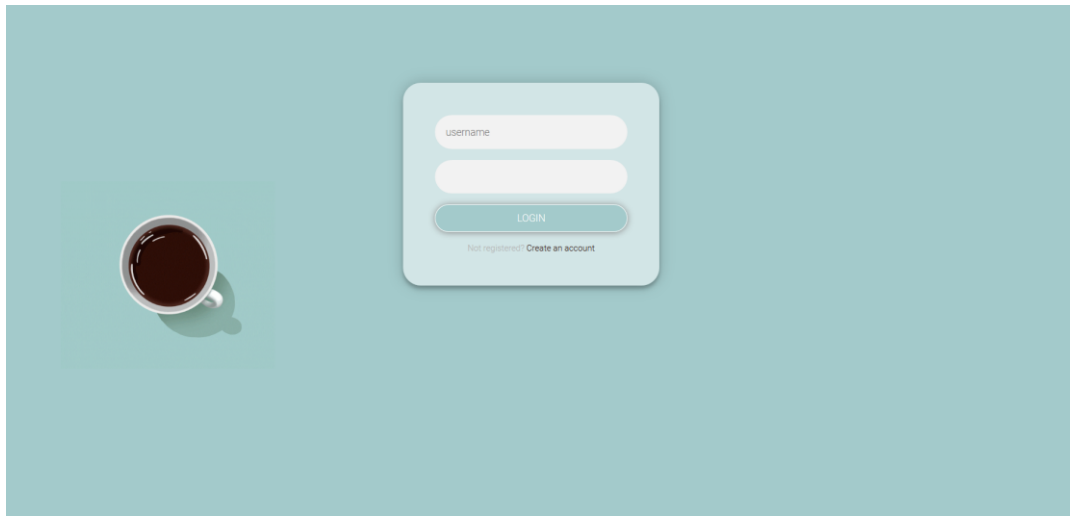
We, however, are aware of the fact that, giving complete independence to writers in regards to writing books may have a negative impact on the harmony of the website. So, before a new chapter gets published, we are sending it to the admins, so they can approve or disapprove them. This feature is not available in the similar existing systems.

To sum up, we have tried to make a wholesome website, that combines different features of different online book readers, and we are hoping to help the creative people among us.

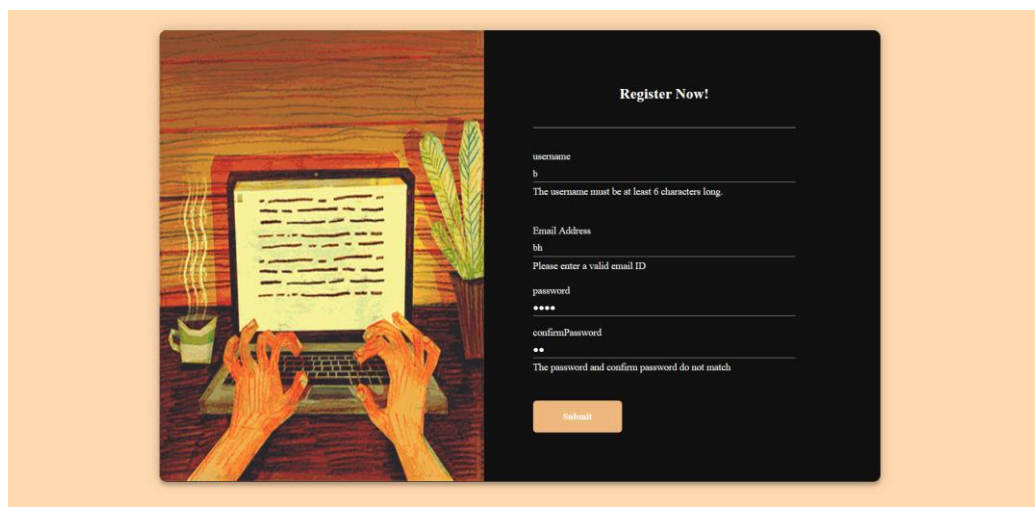
## **Environment and Sustainability:**

We believe that this website will have lots of use in the future, as it is a summing point of readers and writers. Signup is completely free and no charge is needed to read books. This will attract users to join our platform. Writers can write as many books as they want, so they can keep improving their writing skills. We are planning on adding more features in the future, such as messaging and creating groups. This will help the users maintain good communication among one another. Basically, this is a website where people can share their creativity and get appreciated for it. Since, there are not many existing platforms that allow users to write and publish books, the young writers' community will be really drawn to our platform.

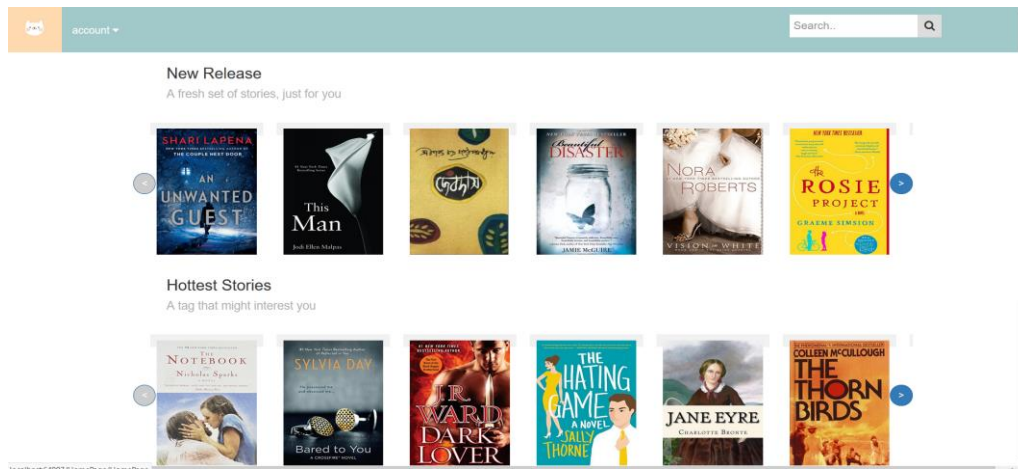
## **Some Sample Designs of Our Project:**



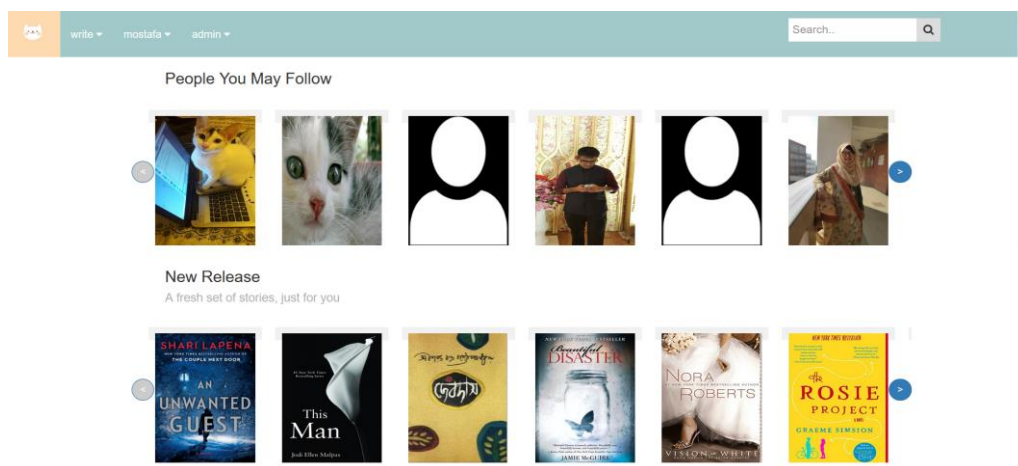
Login page



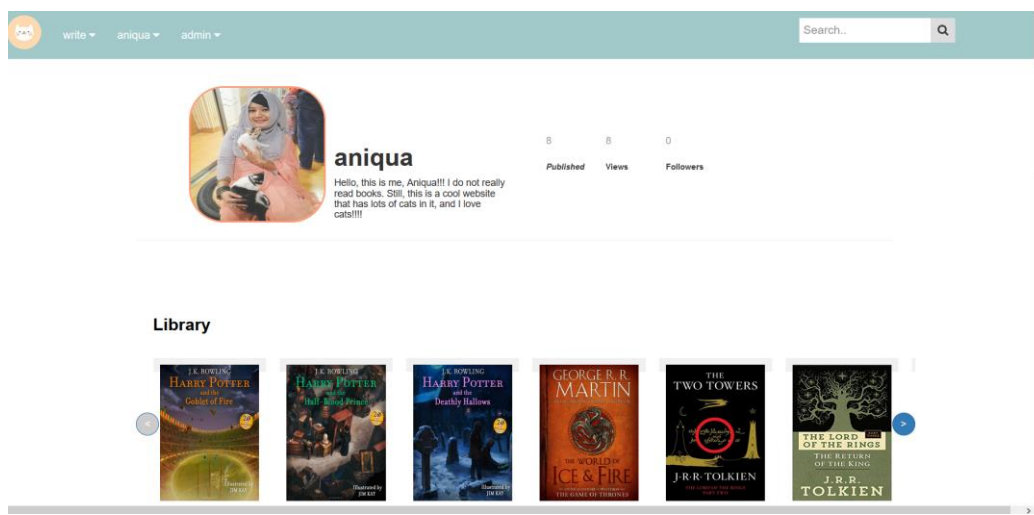
Registration page



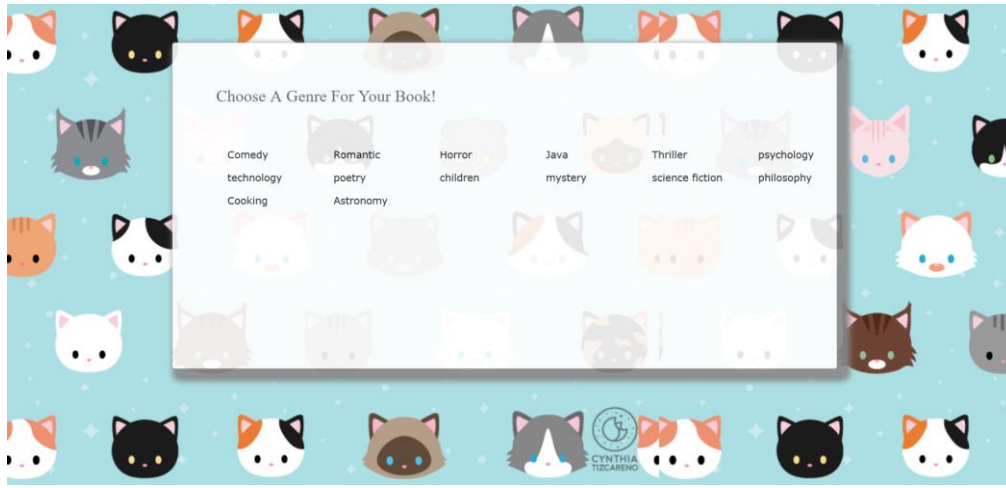
Home page while user is not logged in



Home page while user is logged in



User profile



## Selecting new book genre

### Published Stories

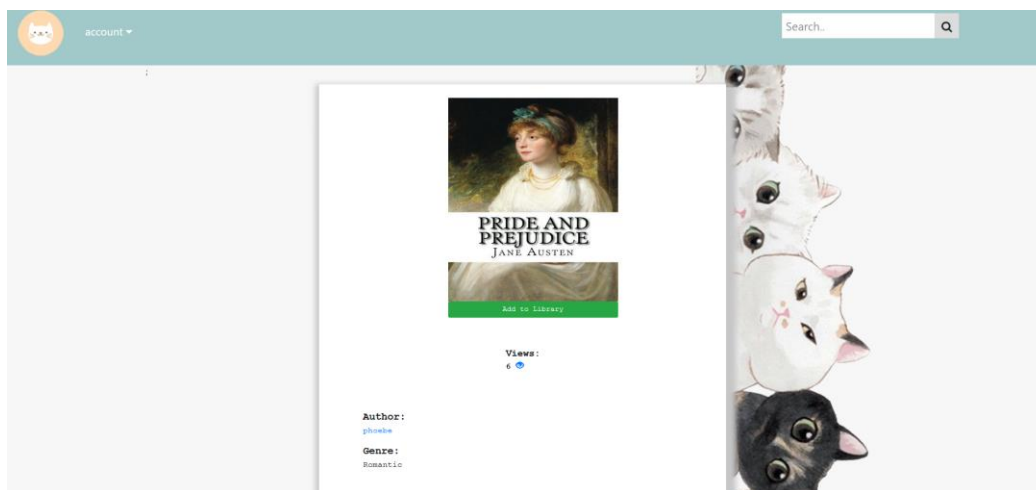


### Recommendation by Horror



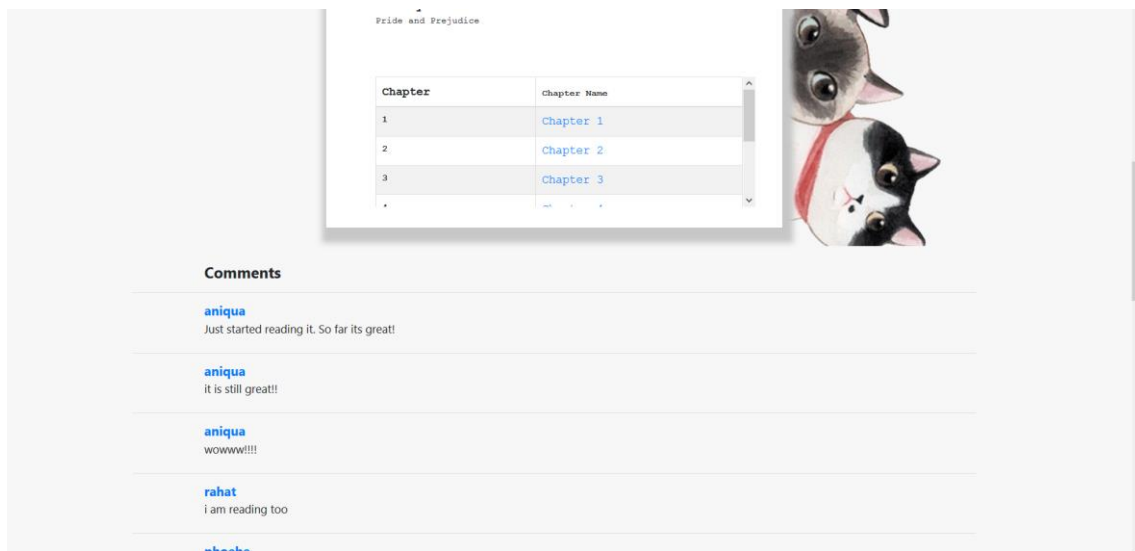
### Recommendation by Java

## Personalized recommendation for user

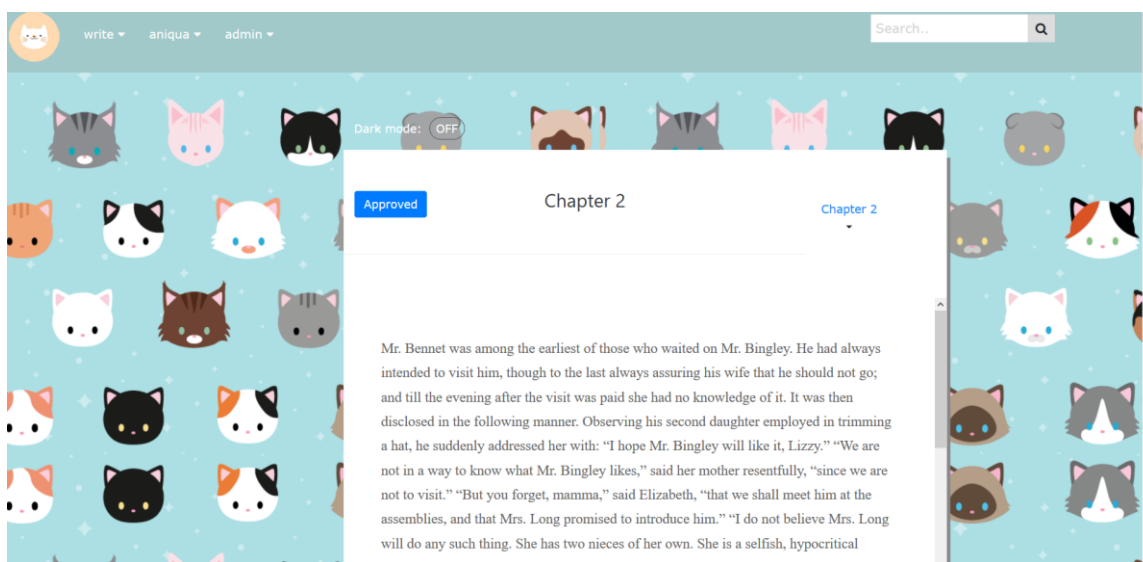


## Book details page

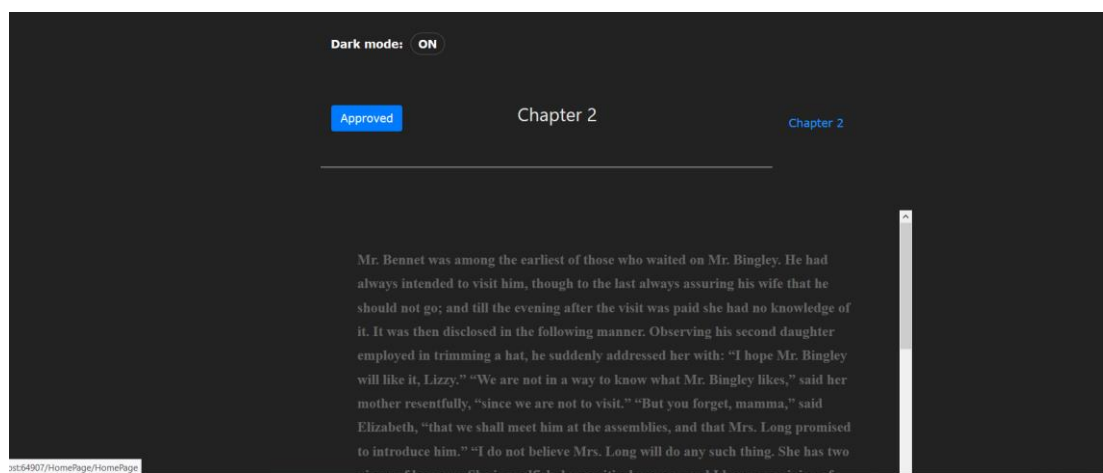




## Comments on a book



## Chapter reading page



## Dark reading mode

Story Details

UPLOAD BOOK COVER

Browse...

No file selected.


TITLE


DESCRIPTION

Cancel

Confirm

## New Book writing page


 account ▾


Search.. 

No Results By Username


No Results By Tag


Search Results By Book Name






## Search details


 write ▾ aniqua ▾ admin ▾

Search.. 



Add as Admin

Attributes	Details
Username	polarbear
Email ID	polarbear@gmail.com



## Add a new admin page