

MINI PROJECT - I
(2021-2022)

Bookish World
PROJECT REPORT



Institute of Engineering & Technology

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Certificate

This is to certify that Devang Tiwari, Hitesh Panwar, Keshav Dev Tiwari, Rajya Vardhan, Sahil Vishwakarma - students of B-Tech (CSE) 3rd year have successfully completed the **MINI PROJECT - I** named **Bookish World** under the Guidance of **Md. Farmanul Haque** during 2020- 2021.

Signature:

Md. Farmanul Haque
(Mentor)

Acknowledgement

It gives us a great sense of pleasure to present the synopsis of BTech Full Stack Project (**Bookish World**) undertaken during B-Tech IIIrd Year. This project in itself is going to be an acknowledgement to the inspiration, drive and technical assistance that has motivated individuals like us.

We owe special debt of gratitude to **Md. Farmanul Haque**, Technical Trainer, Department of CEA, for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work. His sincerity, thoroughness and perseverance is been a constant source of inspiration for us. We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also guide us about the latest industry-oriented technologies.

We would also like to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation.

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Abstract

In this cut throat competition, full stack development is one of those fields that is experiencing great demand in IT industries. It has gained a lot of scope in the top-notch industries. Therefore, being a Computer Science student, it becomes quite necessary to learn such full stack technologies in order to increase one's career prospects. For this, it is important to have practical knowledge of languages and build projects that can be utilized and worked upon in future and among such projects is "Bookish World"

The main aim of this project is to connect all the book lovers and avid readers out there, who then share their book lists and reviews. Also, this platform will give readers a new perspective around the books that they have read, helping them understand the aspects that they never considered. The key components of Bookish World are: (i) Explore Book Titles (ii) Add New Book Title

- There are following users: Readers
- Readers can add new titles, like posts from other readers, read such book titles and delete their posted titles.
- They can sign up and sign in using google account as well as credentials.

Introduction

1.1 Overview

- Software and Hardware Requirements, corresponding DFD's and Use Case Diagrams have been organized in this report. Along with these designs, this report also contains the essential data of this project.
- The complete description of the website followed by the functionalities has been listed initially. Later on, the Webpage has been described diagrammatically with the help of different designing tools like Data Flow Diagram, Use Case Diagram.

1.2 Motivation

In this cut throat competition, full stack development is one of those fields that is experiencing great demand in IT industries. It has gained a lot of scope in the top-notch industries. Therefore, being a Computer Science student, it becomes quite necessary to learn such full stack technologies in order to increase one's career prospects. For this, it is important to have practical knowledge of languages and build projects that can be utilized and worked upon in future and among such projects is "Bookish World".

1.3 Problem Statement

In this digital era where people share their hobbies like dance, music etc, there comes a need to provide an open platform to all those readers who want to explore new book titles every day and share their aspects regarding a book. This idea has led to building book-specific social media platform: Bookish World, where people can connect over poetry, literature, blogs, articles, quotes, scriptures- writings that are worth sharing.

1.4 Objective

The main aim of this project is to connect all the book lovers and avid readers out there, who then share their book lists and reviews. Also, this platform will give readers a new perspective around the books that they have read, helping them understand the aspects that they never considered. The key components of Bookish World are: (i) Explore Book Titles (ii) Add New Book Title

- There are following users: Readers
- Readers can add new titles, like posts from other readers, read such book titles and delete their posted titles.
- They can sign up and sign in using google account as well as credentials.

Software Requirement Analysis

2.1 System Analysis

System analysis is a process of collecting and interpreting facts, identifying the problems, and decomposition of the system into its components.

It is a process of studying a system in order to define its goals or purposes and to discover operations and procedures for accomplishing them most efficiently.

2.2 Role of System Analyst

The system analyst is a person who is thoroughly aware of the system and guides the system development project by giving proper directions. He is an expert having technical and interpersonal skills to carry out development tasks required at each phase.

2.2.1 Main Roles of System Analyst:

- Defining and understanding the requirement of user through various fact finding techniques.
- Prioritizing the requirements by obtaining user consensus.
- Maintains analysis and evaluation to arrive at appropriate system which is more user friendly.
- Draw certain specifications which are easily understood by users and programmer in precise and detailed form.
- Implement the logical design of system which must be modular.

2.3 Users

The Users of this website would be the Readers who want to add book title or want to read book titles posted by another readers. They can also like those posts and have facility to sign up and sign in using google account or credentials.

2.4 Methodology

Our methodology is designed to help you take maximum advantage of the internet technologies. It incorporates all aspects related to our website and allows us to ensure that the final product is of the highest standards. Below are the steps we will take to ensure that all our deliverables are completed in time, within budget also we will try to solve each and every problem efficiently.

- Requirements analysis

The first step for us is to analyze the target market's requirements who will be visiting our website, what will be the purpose of their visit, what is the primary goal of our website, how can the users benefit from it. Many such questions are analyzed for the need's analysis stage.

If we are given access to the current website statistics, we would also like to analyze our current page views, average user time spent on the site, top landing pages, existing search engine rankings, existing bounce rates and many such factors. We analyze our online target audience and assess our differentiation strategy to best attract and retain our online visitors.

Our website should also undergo comprehensive search engine analysis twice during the course of the project; once during this stage and once again after the deployment (Go Live phase) of our website.

- Website handover

Once the site is setup on our destination server, upon your approval we make the website live. One final set of testing is done on the live website for the quality assurance purposes. We then hand over the control of the site to you.

2.5 Dependencies/External Systems

- User Interfaces:

Bookish World website shall permit complete navigation; including all the functionalities described above, starting from seeing the posts published by other readers to adding new book title and also deleting them.

- Hardware Interfaces:

There are two external machines/devices used by the website, each related to a user interface. These are – a machine at the admin end hosting the website and a PC at readers's end who wants to read about popular book titles as well as share their experience by adding new book title. The devices at the user end behave as terminals. Also capable of taking user input.

2.6 Hardware Requirement (Minimum)

- 4 GB RAM
- Dual Core Processors
- Internet Connections

Software Requirement -

- SYSTEM SOFTWARE
 - Operating System (Windows 7, Linux)
- APPLICATION SOFTWARE
 - Tools: Visual Studio Code Editor
 - Front End Technologies: React JS
 - Back End Technologies: Node JS, Express JS, Mongo DB

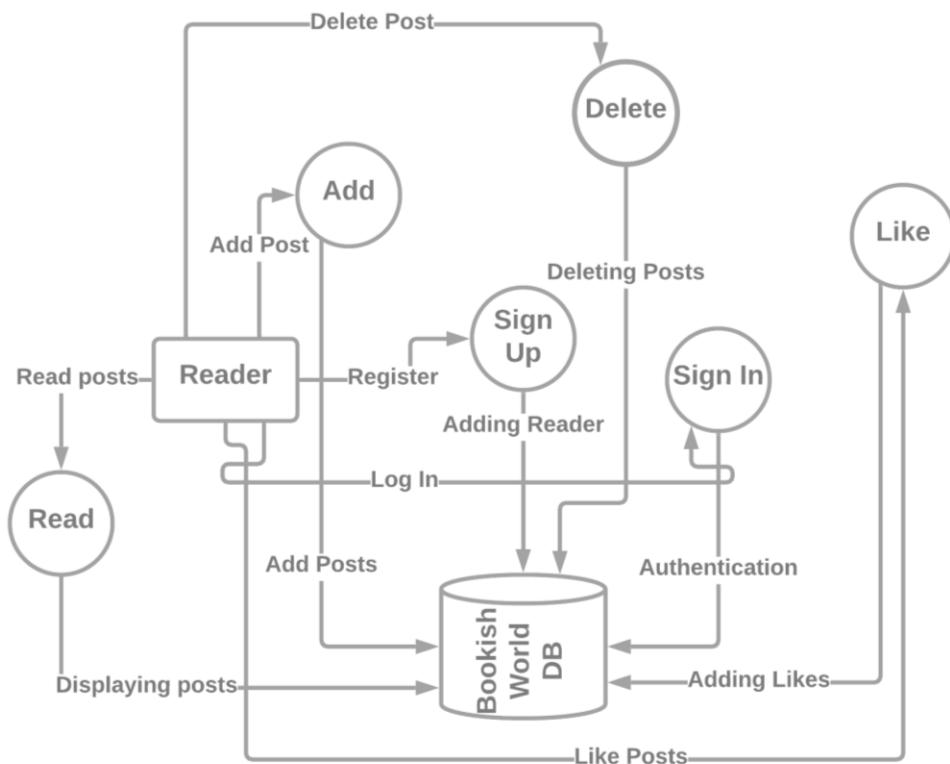
Technology Used

- **React JS:** It is an open-source, front end, JavaScript library[3] for building user interfaces or UI components.
- **Node JS:** Node.js is an open-source, cross-platform, back-end JavaScript runtime environment that runs on the V8 engine and executes JavaScript code outside a web browser.
- **Express JS:** Express is a back end web application framework for Node.js, released as free and open-source software under the MIT License. It is designed for building web applications and APIs.
- **MongoDB:** MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas.

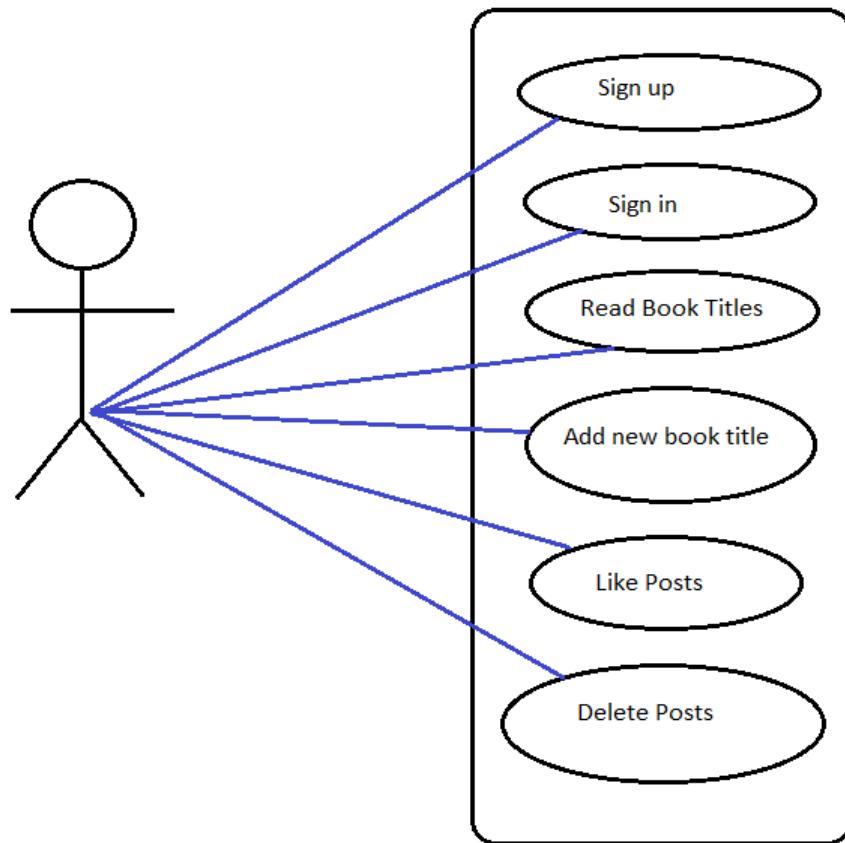
LEVEL 0 DFD



LEVEL 1 DFD



USE-CASE DIAGRAM



Implementation Details

This system is intended to develop an open platform for all readers and book lovers where they get to explore new book titles and their aspects and description. This will also help them to share their own aspect for a particular book.

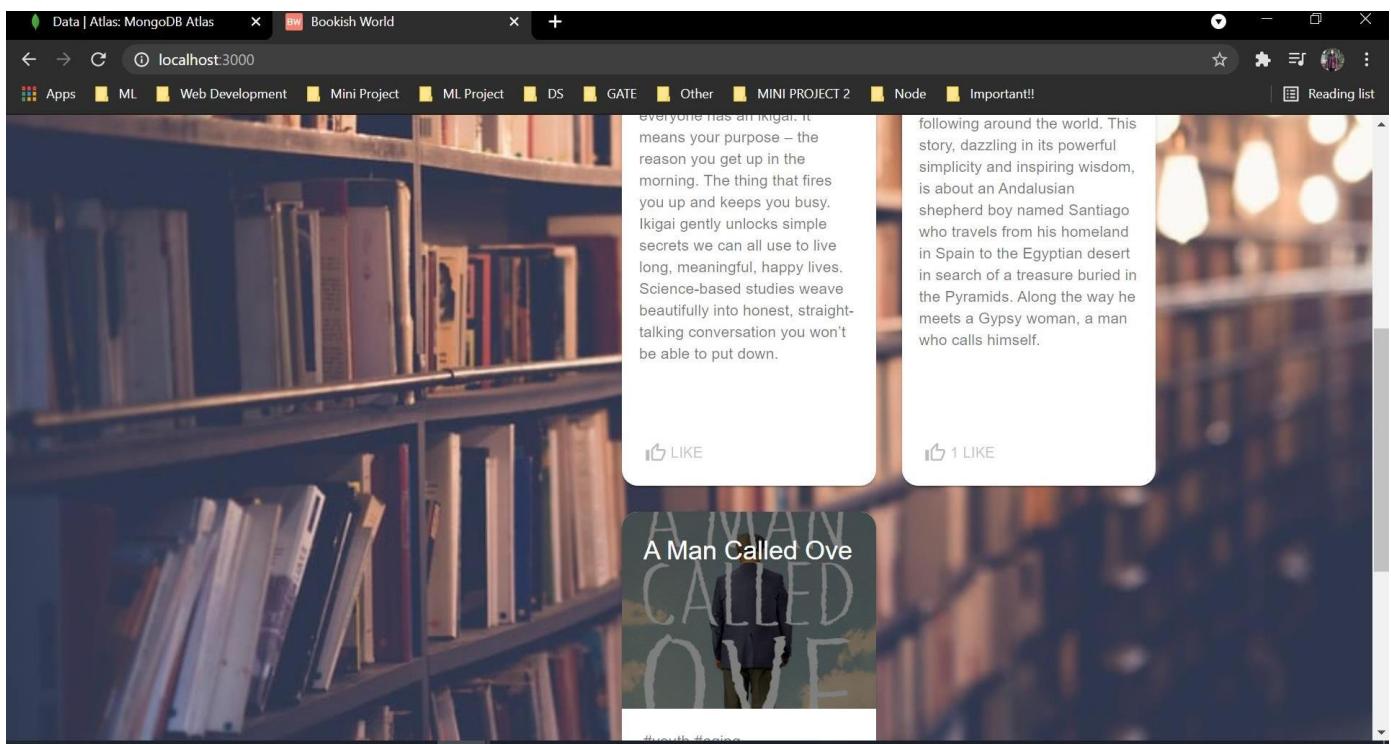
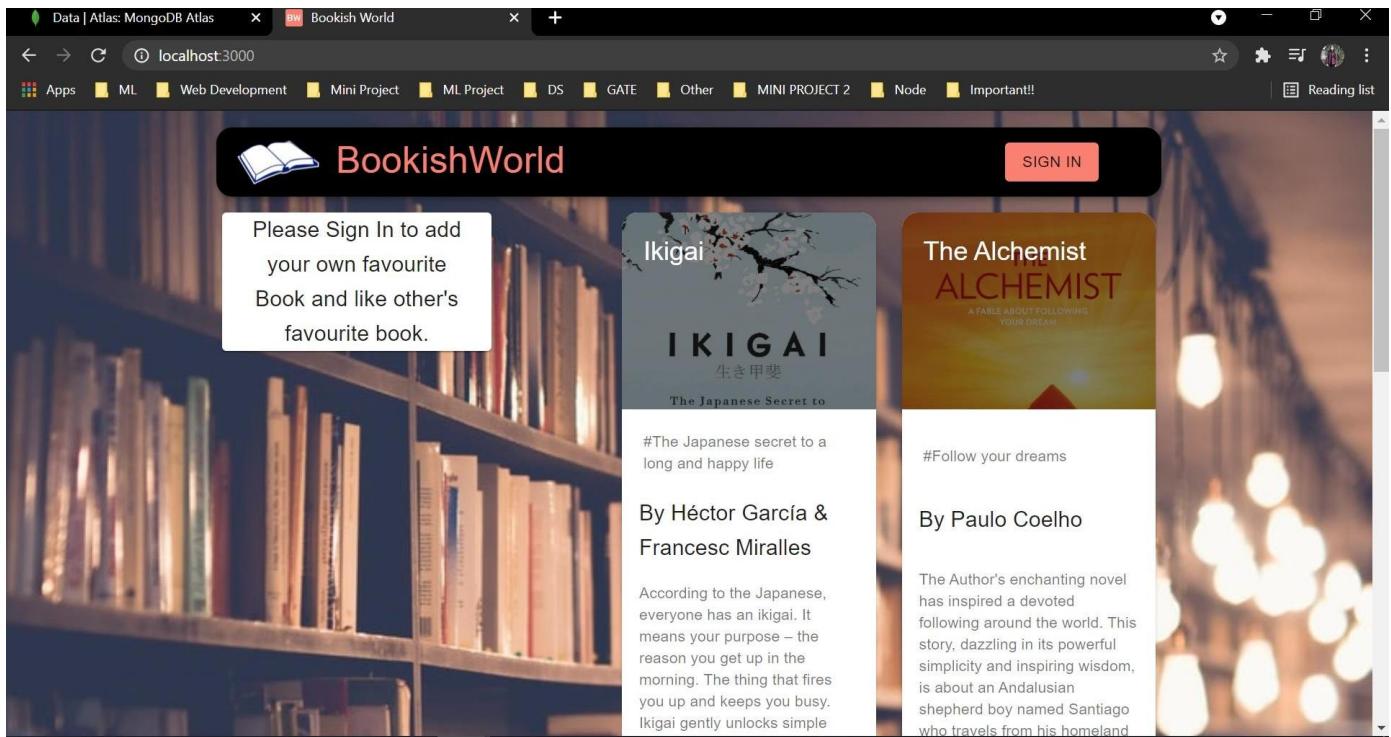
Functionalities are:

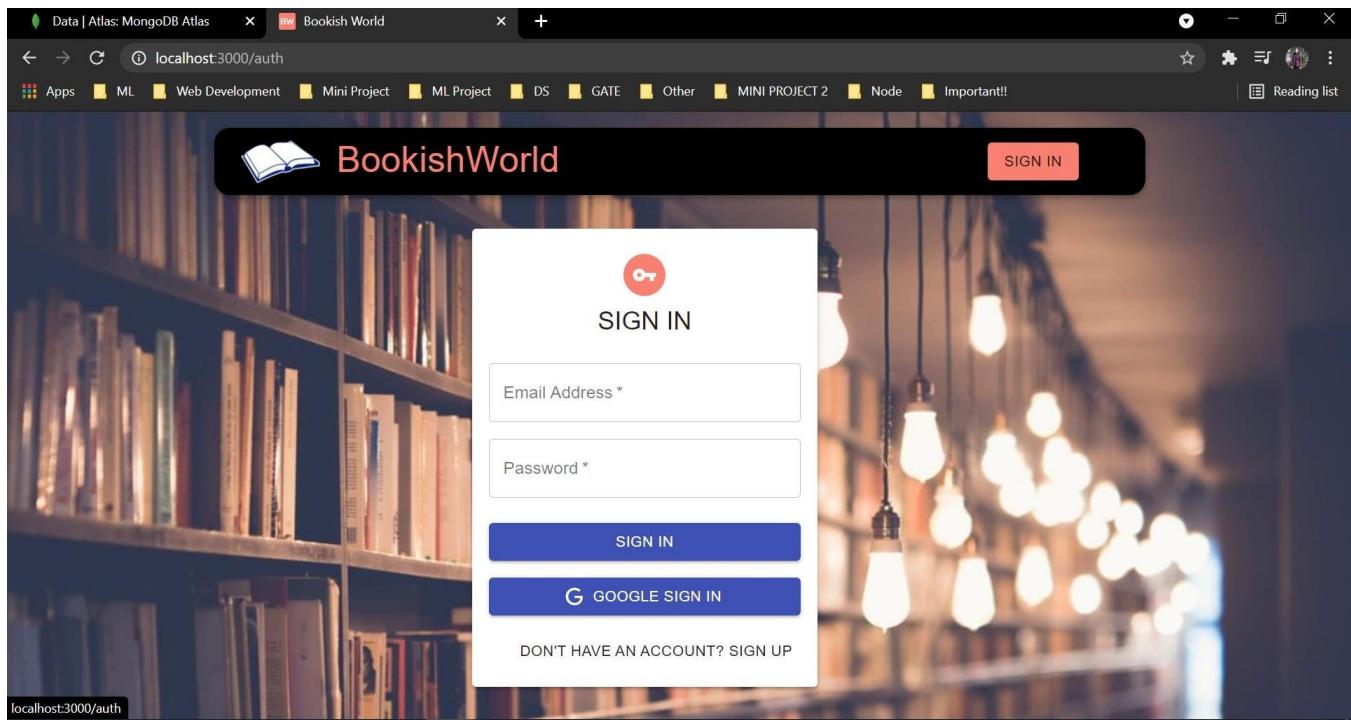
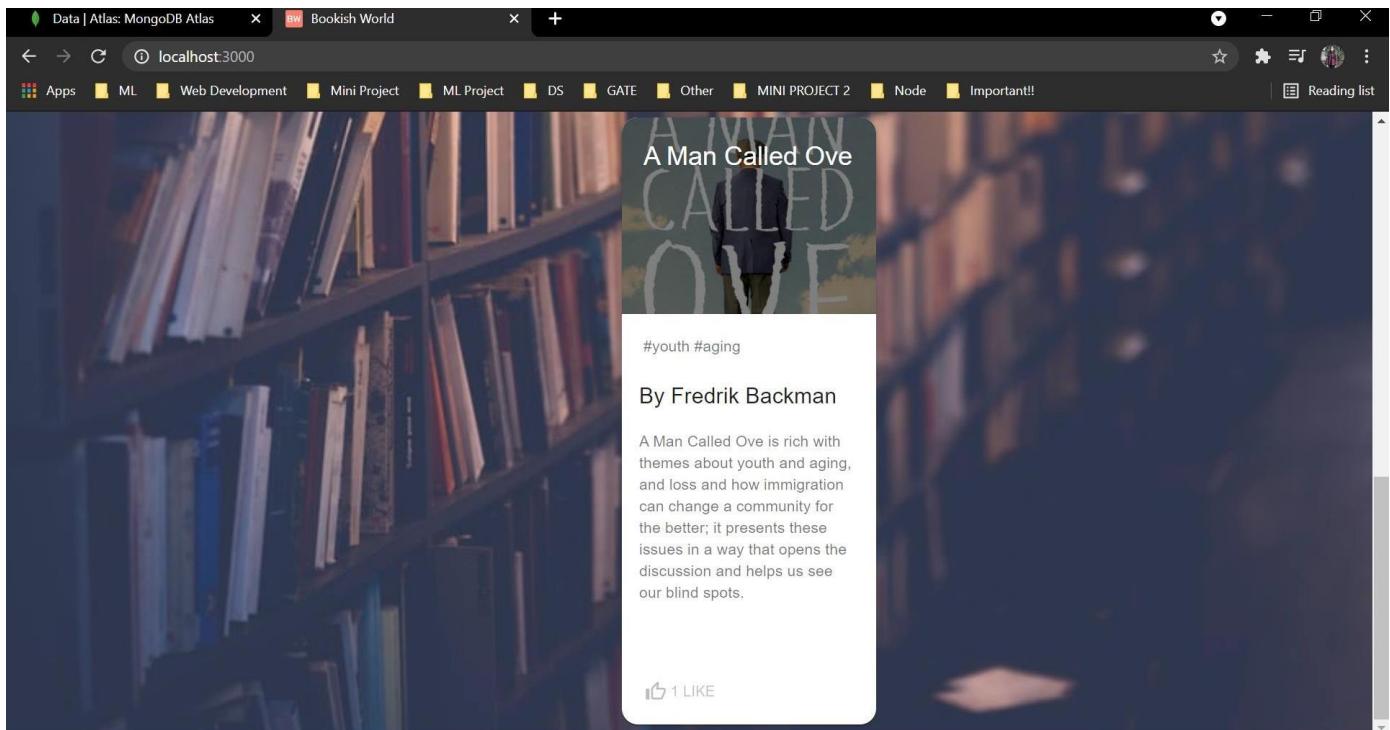
- Using this platform, we can view or add recent/trending book titles.
- This website contains a dashboard containing posts shared by reader across the globe.
- Users need to register in order to share or like posts.
- The user can login or sign up using their credentials or google account.
- The user can like other's posts or add/delete their posts.

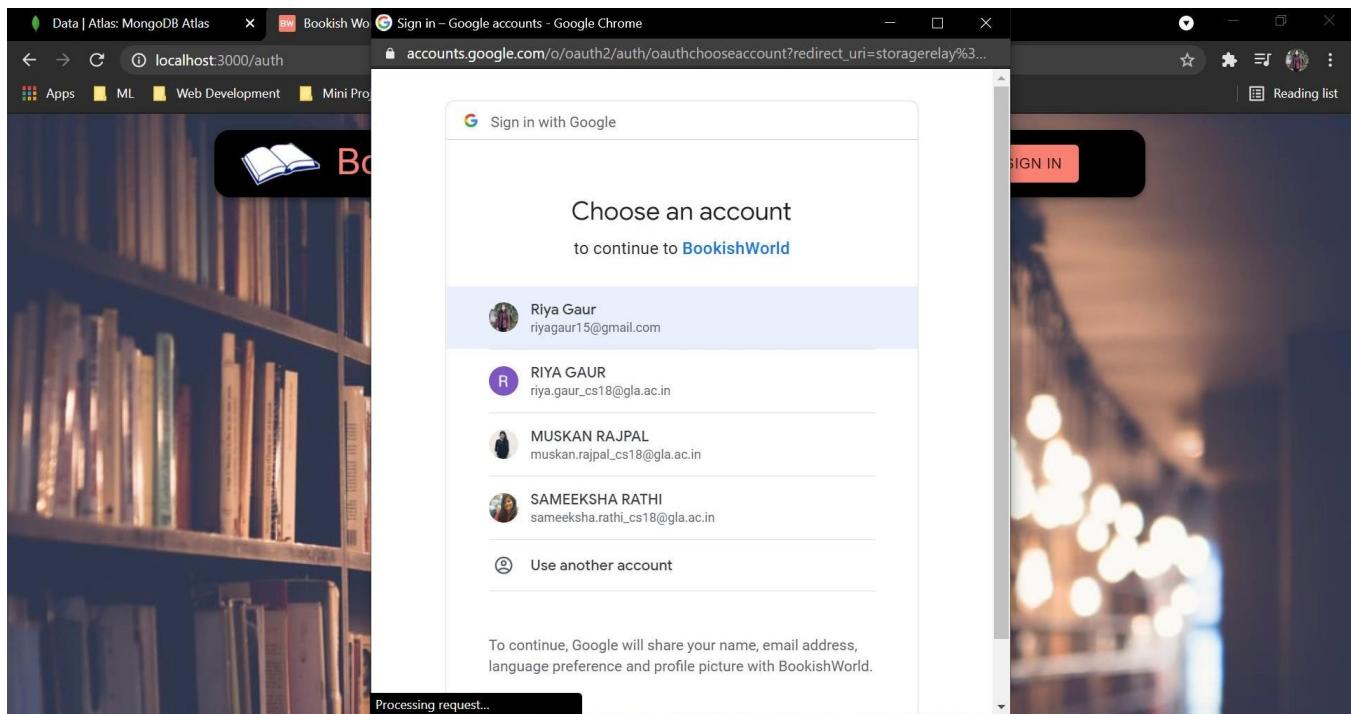
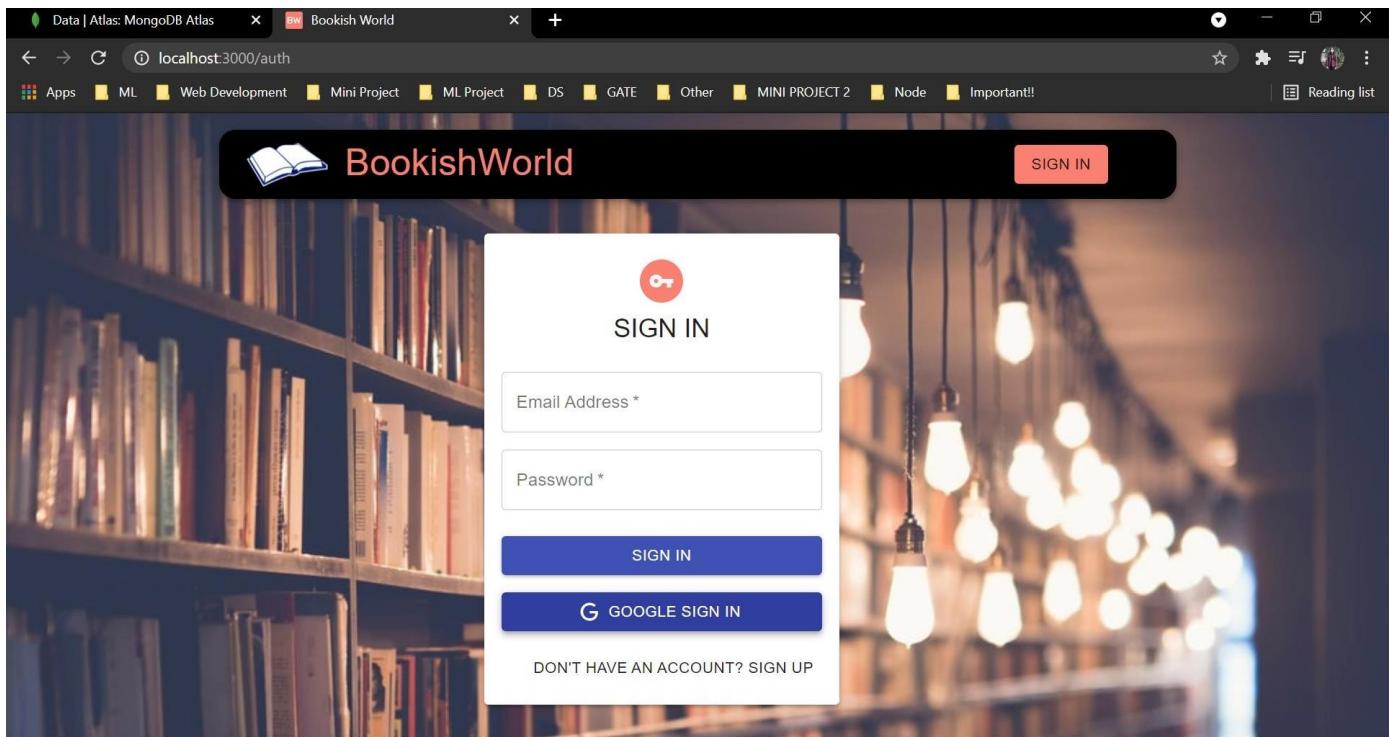
Modules Included

- Sign Up form – Sign up using credentials or Google account.
- Sign In form – Sign in using credentials or Google account.
- Bookish World Dashboard – Section where readers have shared their book titles that can be liked by other readers.
- Add Book form – Form to add your own book title along with its description and hashtags.

Project Work (Desktop View):







The screenshot shows a web browser window with the title "Bookish World" at the top. The URL bar shows "localhost:3000". The page has a dark background with a blurred image of bookshelves. On the left, there is a form titled "Adding Book" with fields for Title, Creator, Description, Tags (comma separated), and file upload. Below the form are two large book cards. The first card is for "Ikigai" by Héctor García & Francesc Miralles. The second card is for "The Alchemist" by Paulo Coelho.

Adding Book

Title:

Creator:

Description:

Tags (comma separated):

Choose File: No file chosen

SUBMIT

CLEAR

Ikigai
IKIGAI
The Japanese Secret to a long and happy life
By Héctor García & Francesc Miralles
According to the Japanese, everyone has an ikigai. It means your purpose – the reason you get up in the morning. The thing that fires you up and keeps you busy. Ikigai gently unlocks simple

The Alchemist
ALCHEMIST
A FABLE ABOUT FOLLOWING YOUR DREAM
By Paulo Coelho
The Author's enchanting novel has inspired a devoted following around the world. This story, dazzling in its powerful simplicity and inspiring wisdom, is about an Andalusian shepherd boy named Santiago who travels from his homeland

This screenshot is similar to the one above, but the "Tags (comma separated)" field contains "Meaning of Life, Death". The file upload field shows "Looking for Alaska.png". The rest of the interface and book cards are identical to the first screenshot.

Adding Book

Title: Looking for Alaska

Creator: John Green

Description: Miles' trying to find out what happens when you die.

Tags (comma separated): Meaning of Life, Death

Choose File: Looking for Alaska.png

SUBMIT

CLEAR

Ikigai
IKIGAI
The Japanese Secret to a long and happy life
By Héctor García & Francesc Miralles
According to the Japanese, everyone has an ikigai. It means your purpose – the reason you get up in the morning. The thing that fires you up and keeps you busy. Ikigai gently unlocks simple

The Alchemist
ALCHEMIST
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The Author's enchanting novel has inspired a devoted following around the world. This story, dazzling in its powerful simplicity and inspiring wisdom, is about an Andalusian shepherd boy named Santiago who travels from his homeland

The screenshot shows a web browser window with the title "Bookish World" at the top. The address bar says "localhost:3000". The page has a header with various project categories: Apps, ML, Web Development, Mini Project, ML Project, DS, GATE, Other, MINI PROJECT 2, Node, and Important!!.

Form (Left Side):

- Creator:
- Description:
- Tags (comma separated):
- Choose File: Looking for Alaska.png
- Buttons: SUBMIT (blue) and CLEAR (pink)

Book Review 1 (Middle):

Book: IKIGAI
The Japanese Secret to a Long and Happy Life

Author: By Héctor García & Francesc Miralles

Text: According to the Japanese, everyone has an ikigai. It means your purpose – the reason you get up in the morning. The thing that fires you up and keeps you busy. Ikigai gently unlocks simple secrets we can all use to live long, meaningful, happy lives. Science-based studies weave beautifully into honest, straight-talking conversation you won't be able to put down.

Buttons: LIKE (with 1 LIKE), DELETE

Book Review 2 (Right Side):

Book: Looking for Alaska

Author: By Paulo Coelho

Text: The Author's enchanting novel has inspired a devoted following around the world. This story, dazzling in its powerful simplicity and inspiring wisdom, is about an Andalusian shepherd boy named Santiago who travels from his homeland in Spain to the Egyptian desert in search of a treasure buried in the Pyramids. Along the way he meets a Gypsy woman, a man who calls himself.

Buttons: LIKE (with 1 LIKE), DELETE

The screenshot shows the same web browser window with the title "Bookish World" at the top. The address bar says "localhost:3000". The page has the same header with project categories.

Book Review 1 (Left Side):

Book: A Man Called Ove

Author: By Fredrik Backman

Text: A Man Called Ove is rich with themes about youth and aging, and loss and how immigration can change a community for the better; it presents these issues in a way that opens the discussion and helps us see our blind spots.

Buttons: LIKE, DELETE

Book Review 2 (Right Side):

Book: Looking for Alaska

Author: By John Green

Text: Looking for Alaska is about death, guilt, independence, meaning of life, finding out yourself and many more. Death is the main theme in the book because this is what everything in the book revolves around. From Alaska's mother's death, to Miles' trying to find out what happens when you die.

Buttons: LIKE, DELETE

A Man Called Ove
By Fredrik Backman

#youth #aging

A Man Called Ove is rich with themes about youth and aging, and loss and how immigration can change a community for the better; it presents these issues in a way that opens the discussion and helps us see our blind spots.

1 LIKE DELETE

Looking for Alaska
By John Green

#Meaning of Life # Death

Looking for Alaska is about death, guilt, independence, meaning of life, founding out yourself and many more. Death the main theme in the book because this is what everything in the book revolves around. From Alaska's mother's death, to Miles' trying to find out what happens when you die.

LIKE DELETE

Looking for Alaska
By John Green

#Meaning of Life # Death

Looking for Alaska is about death, guilt, independence, meaning of life, founding out yourself and many more. Death the main theme in the book because this is what everything in the book revolves around. From Alaska's mother's death, to Miles' trying to find out what happens when you die.

LIKE DELETE

The screenshot shows the BookishWorld homepage. At the top, there's a navigation bar with tabs for "Data | Atlas: MongoDB Atlas" and "Bookish World". The URL is "localhost:3000". Below the navigation is a toolbar with various project categories: Apps, ML, Web Development, Mini Project, ML Project, DS, GATE, Other, MINI PROJECT 2, Node, and Important!!.

The main content area features a dark background with a blurred image of bookshelves and hanging lights. On the left, there's a modal titled "Adding Book" with fields for Title, Creator, Description, Tags (comma separated), a file input labeled "Choose File" (No file chosen), and buttons for "SUBMIT" and "CLEAR".

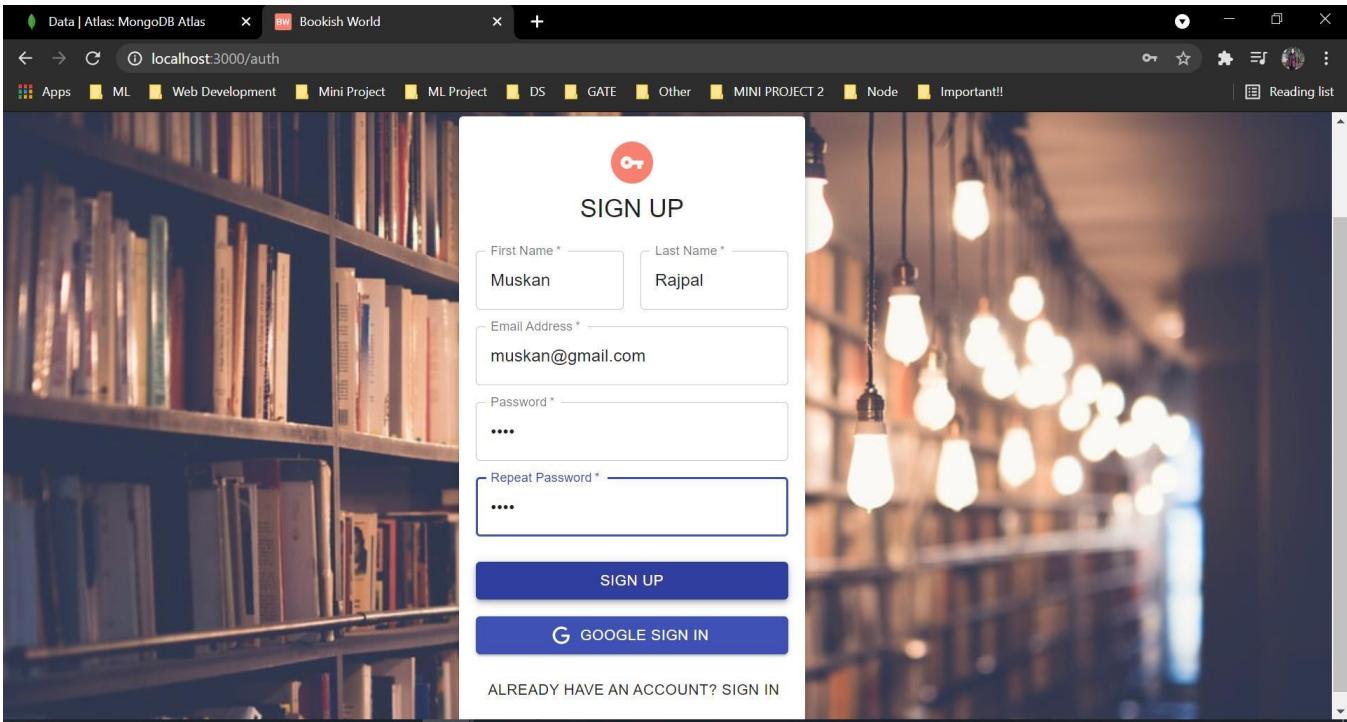
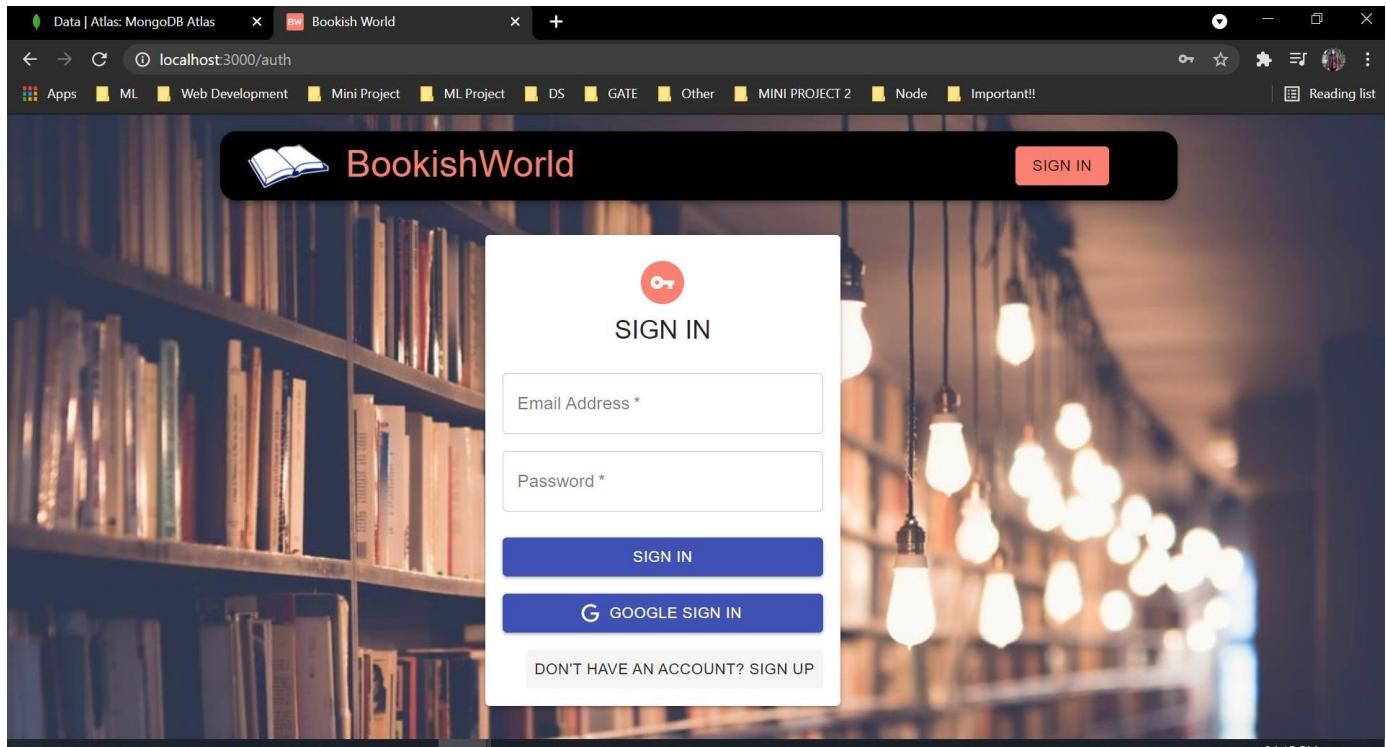
On the right, there are two book cards:

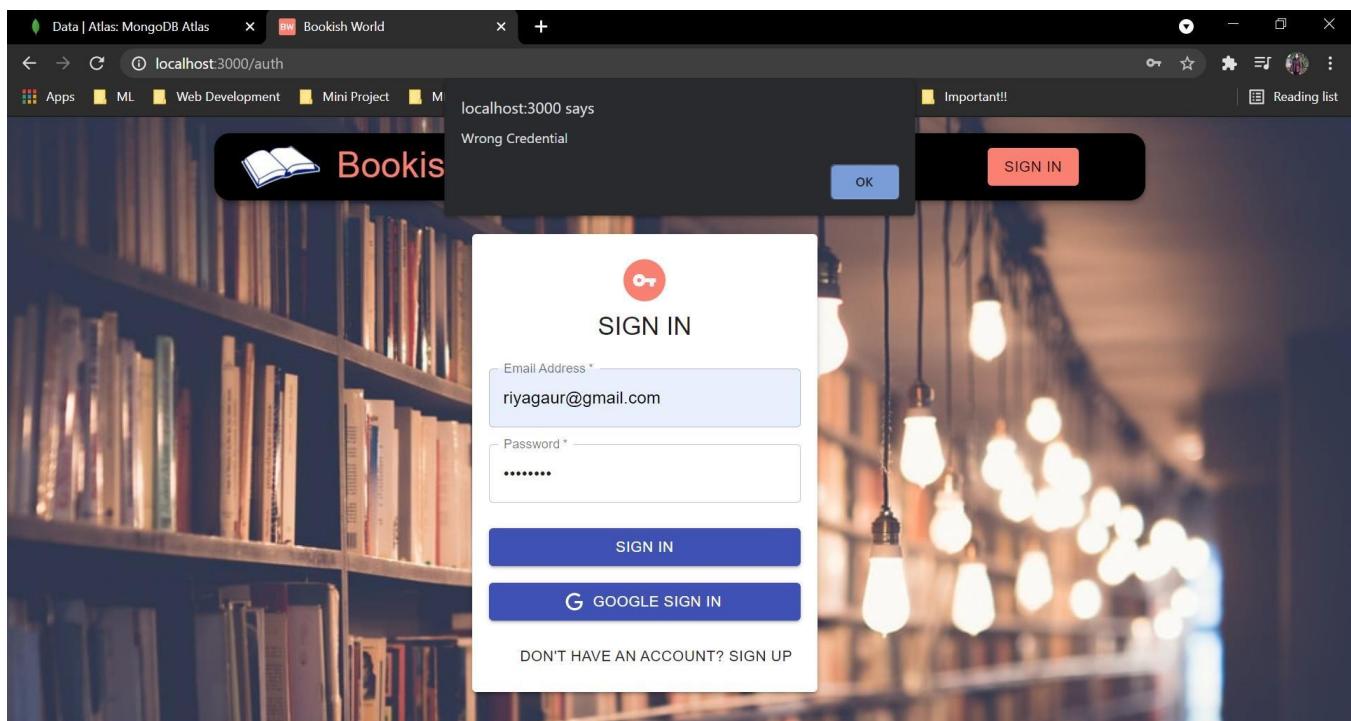
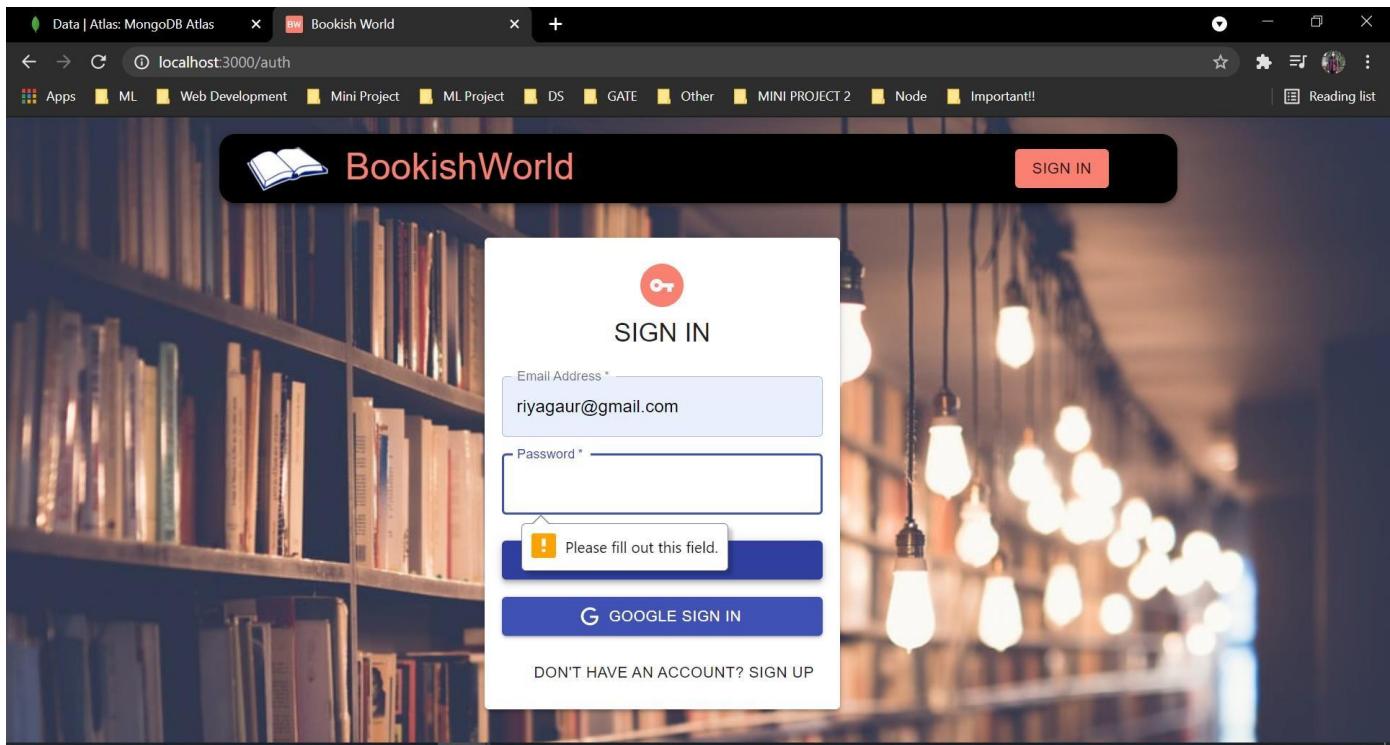
- Ikigai** by Héctor García & Francesc Miralles: A book about finding purpose. It includes a brief description and the authors' names.
- The Alchemist** by Paulo Coelho: A book about following your dreams. It includes a brief description and the author's name.

The screenshot shows the BookishWorld sign-in page. The URL is "localhost:3000/auth". The page has a similar dark background with bookshelves and lights. At the top, there's a "SIGN IN" button. The main form is titled "SIGN IN" and contains fields for "Email Address" (with placeholder "samrathi@gmail.com") and "Password" (with placeholder "..."). There are also "SIGN IN" and "GOOGLE SIGN IN" buttons, and a link for "DON'T HAVE AN ACCOUNT? SIGN UP".

The screenshot shows a web browser window with two tabs: "Data | Atlas: MongoDB Atlas" and "Bookish World". The "Bookish World" tab is active and displays the URL "localhost:3000". The page has a header with navigation icons and a toolbar with various project categories. The main content area features a background image of bookshelves. On the left, there is a form for adding a book, which includes fields for "Tags (comma separated)", "Choose File" (No file chosen), "SUBMIT", and "CLEAR". To the right of the form are two book cards. The first card is for "Ikigai" by Héctor García & Francesc Miralles, with a description about the Japanese concept of ikigai and its benefits. The second card is for "The Alchemist" by Paulo Coelho, with a description of the story and its author. Both cards have a "1 LIKE" button.

This screenshot shows the same "BookishWorld" application as the previous one, but with a different layout. The "Adding Book" form is now at the top left. The book cards are displayed side-by-side. The first book card for "Ikigai" is identical to the one in the previous screenshot. The second book card for "The Alchemist" by Paulo Coelho also has a similar description, mentioning the author's enchanting novel and the story of Santiago. The overall design is more modern and centered.





Screenshot of the MongoDB Atlas interface showing the "postmessages" collection in the "myFirstDatabase".

Collection Details:

- Collection Size: 13.72MB
- Total Documents: 3
- Indexes Total Size: 36KB

Find Results:

```
_id: ObjectId("609821e1b894954774336d26")
tags: Array
  title: "Ikigai"
  writer: "Héctor García & Francesc Miralles"
  message: "According to the Japanese, everyone has an ikigai. It means your purpose..."
  selectedFile: "data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAABhQAAh/CAYAAA04GswRAA... "
  name: "Riya Gaur"
  __v: 0
```

Screenshot of the MongoDB Atlas interface showing the "users" collection in the "myFirstDatabase".

Collection Details:

- Collection Size: 654B
- Total Documents: 5
- Indexes Total Size: 36KB

Find Results:

```
_id: ObjectId("60955cd194f4a07f3455cd95")
email: "riyagaur@gmail.com"
password: "$2a$12$xtOP9xI6uQrr1b7pGn1.B9rhPwV0/ANUb2SY7isAUJ2Q619xP1z"
name: "Riya Gaur"
__v: 0

_id: ObjectId("60961867c3a5b959e85bf3b6")
email: "riya.gaur.cs18@glg.ac.in"
password: "$2a$12$omQjuS17yL5Xz1gCEHBw3ezK5FMBK.Xj6CI9accZN6PDu301ngzki"
name: "dhuejhjhfbgcsjgbfcjdsddfcjdsfcgcfgfdhfvcfcKjendhcfjesbcjmbfvdbhfbhvj... "
__v: 0

_id: ObjectId("6096202259fed55d08ee0a24")
email: "riyagaur12@gmail.com"
password: "$2a$12$XuGety29s4sbhu/3PLhm.uQGa9uLBFvYLQT82chxQzLZ0.ZBoJG"
name: "Riya Gaur"
__v: 0
```

The screenshot shows the MongoDB Atlas interface for managing users in a database. At the top, there are tabs for 'Data | Atlas: MongoDB Atlas' and 'Bookish World'. The URL in the address bar is cloud.mongodb.com/v2/6081a6fdfbae451b3fdac528#metrics/replicaSet/6081a8434110da4777b61731/explorer/myFirstDatabase/users/find. Below the tabs, there's a navigation bar with categories: Apps, ML, Web Development, Mini Project, DS, GATE, Other, MINI PROJECT 2, Node, and Important!!.

The main content area displays three user documents:

```
_id: ObjectId("60990eeff2a00247900430497")
email: "riya.gaur12@gmail.com"
password: "$2a$12$uGety29s4s0hw/3PLhm.uQGq9iL.tBFvYLQQT82chQzLZ0.28oJ0"
name: "Riya Gaur"
__v: 0

_id: ObjectId("60990eeff2a00247900430497")
email: "samrathi@gmail.com"
password: "$2a$12$uGety29s4s0hw/3PLhm.uQGq9iL.tBFvYLQQT82chQzLZ0.28oJ0"
name: "Sam Rathi"
__v: 0

_id: ObjectId("60990eeff2a00247900430497")
email: "muskangmail.com"
password: "$2a$12$uGety29s4s0hw/3PLhm.uQGq9iL.tBFvYLQQT82chQzLZ0.28oJ0"
name: "Muskan Rajpal"
__v: 0
```

At the bottom of the page, there are links for System Status (All Good), Feature Requests, and a footer with copyright information: ©2021 MongoDB, Inc. Status Terms Privacy Atlas Blog Contact Sales. There's also a green speech bubble icon on the right.

FUTURE SCOPE

Bookish World Project is a real time project which is useful for all the book lovers and readers as this helps in building a social media sort of platform where they get to explore new book titles, get to know what is the current choice of readers and which book has a different plot and aspect. They can like such sharable posts and also share their own experience of reading a particular book.

LIMITATIONS OF THE SYSTEM PROPOSED

- It is one user interface website.
- The user can expect more features or want to gather more information.

CONCLUSION

From proper analysis of positive points and constraints on the platform, it can be safely concluded that “Bookish World” is efficient UI based platform. This platform can be easily used in many other systems. Also, “Bookish World” is user friendly. Generally, readers do not get specific website where they can explore different book titles. This all information has to be managed manually. So, there is a need to develop a platform that can solve the mentioned problem. Thus, “Bookish World” comes with just that solution.

REFERENCES:

www.javatpoint.com
www.w3school.com
www.tutorialspoint.com
www.youtube.com
https://web.learncodeonline.in/

Book References-

Learning React: Functional Web Development with React and Redux

Faculty Mentor:

-Md. Farmanul Haque