



**An-Najah National University
Faculty of Engineering & Information Technology**

Readers Club Project

Project #1

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1. Introduction :

Culture and science are one of the most important reasons for the progress of societies. Reading is one of the most important reasons for development of culture and science. Reading has developed throughout history with the development of its tools, for example, people used to write information on pieces of clay, these pieces were heavy and not available to most people. At that time, the reading level was very low, because reading and writing tools were primitive.

After the invention of paper, level of reading and writing has increased. Because paper was light and easy to produce, This helped in the spread of thousands of books and appearance of libraries, everyone could read books. With spread of reading, wheel of progress began to develop in human societies.

But this progress has been relatively growing at low rate. Because of slow transportation at that time. A thousand years ago, to solve a problem, a scientist was traveling from Iraq to Egypt, spending two months on the road until he reached Egypt, to ask the scientists of Egypt about that problem. In the previous example, we notice that we got the solution of that problem after 2 months.

Today we are in the age of speed, with Internet, we can get information in a very short time, and this has led to an increase in the rate of reading and discussion and thus led to development of nations at a great rate, now we can read books through Internet, we can discuss others through social media.

Through the previous historical overview, we note that the development of the tools led to great results.

We believe that the important thing now is how reading and discussion can be invested, especially since tools have developed. How can these tools be used to develop reading and discussion process and make it more useful?

The answer to this question requires a team of researchers, but as programmers, we try to answer this question by presenting "Readers Club" project, which is a website that allows users to read and discuss books.

It is a social site for readers enables them to read, comment, evaluate books, and allows them to submit researches. In addition, they can create groups to discuss a book. This site offers a new feature related to book evaluation and trying to build decisions that benefit readers.

2. Literature Review :

There are many sites related to books. Some of these sites are commercial sell books. other sites provide books in pdf format. There are sites display books and provide descriptions about these books and their authors. There are also sites for discussion of books. There are reading groups in social media such as Facebook , WhatsApp through which books are displayed and ideas are discussed . All these sites and groups are important and focus on several aspects of the world of books, but in this project we wanted to focus on developing a website that supports discussion and evaluation .

Discussion, evaluation and criticism, these concepts enrich knowledge, so we need a site built on this concepts so that users can discuss and rate any book with other people . Then use discussion and evaluation to make conclusions and decisions .

The idea of discussion and evaluation does not seem like a new idea. A lot of sites evaluate books . You can rate a book through Facebook, or other sites, but we believe that it is better than that to create a public site for discussion and evaluation , then benefit from this discussion and evaluation based on collected information from this site, this will reduce time and effort, rather than moving between web pages to search for book reviews, you can do that through this site .

In addition , most sites use simple evaluation in evaluating books, such as star rating, this is sometimes not accurate or unrealistic, especially in evaluating ideas. So in this site we used a new evaluation .

This is what we call the composite evaluation, which is based on several points and on several axes that is not based on only one criterion. This form of evaluations is accurate and gives more accurate results than simple evaluation such as star evaluation .

In this website, we are trying to provide an accurate evaluation model based on several criteria so that the user can evaluate this book through these criteria : difficulty of language, clarity, objectivity, credibility, any user can rate any book based on these and other points . Then use these result to make conclusion and decision which readers can benefit from it .

3. Methodology :

Above all, the project is based on evaluation and discussion. This is a general idea that needs to be implemented on the ground. We need details, so we conducted an opinion poll, we wanted to make sure of the feasibility of this project . in addition to asking the readers what they want :

3.1 Poll

We did a survey, through this survey we asked people five questions, and the results were as follows :

Question 1 : When you intend to read a book, do you read about the author of that book?

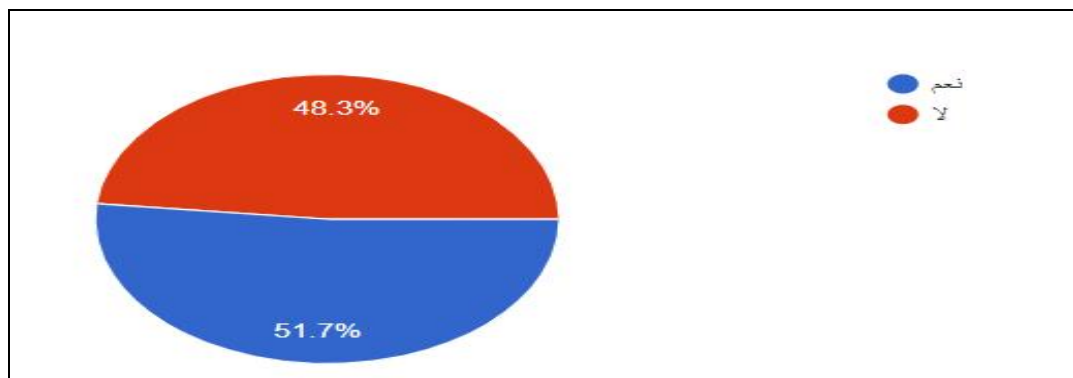


figure 1

51% of persons read about the author of the book before reading .

So it is important to provide a description of the writer and what his specialty is. In addition , show an evaluation of this writer.

Question 2 : Do you care what others think of the book you read?

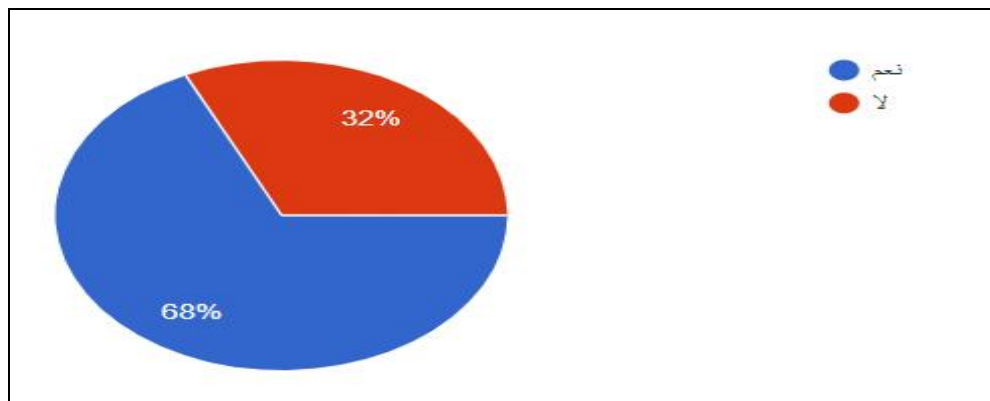


figure 2

68% of persons care what others think of the book they want to read.

So we added a composite evaluation feature that allows users to rate books and then the site takes the overall average of these evaluations and displays them to users .

In addition, we designed for each book its own page called (Book Room). Through this page, the user can evaluate the book, provide his opinion on the book, and discuss others through conversation .

Question 3 : What do you think is the best way to discuss books?

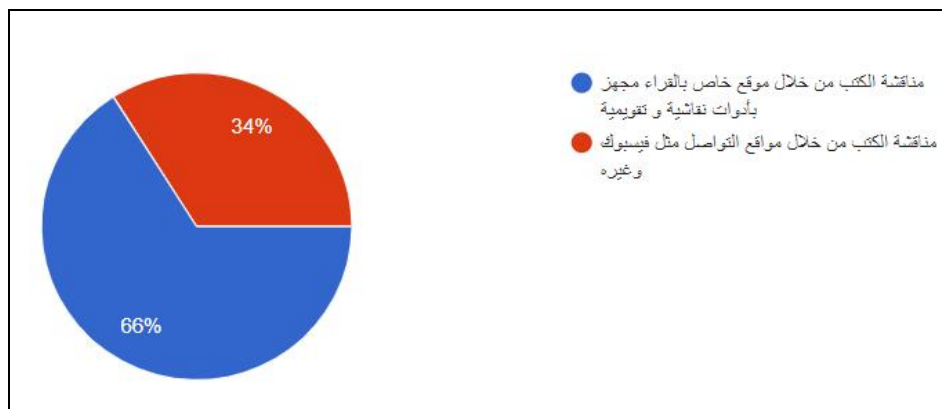


figure 3

66% of the sample prefer to discuss books through a reader's website, while 34% prefer to discuss books through social media sites such as Facebook and WhatsApp.

So , we designed for each book its own page called (Book Room). Through this page, the user can evaluate the book, provide his opinion on the book, and discuss others through chatting .

Question 4 : Do you trust the general evaluations of books on the Internet?

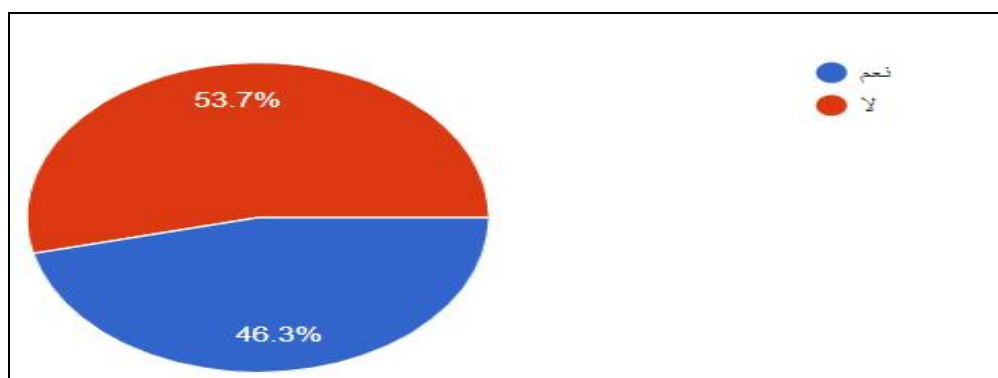


figure 4

53.7% of the sample do not trust the general evaluations of books provided by some websites, while 46.3% of the sample trust these evaluations. Therefore, we followed a different method in evaluation process, composite evaluation.

What is a composite evaluation ?

Most sites use simple evaluation in evaluating books, such as star rating. Sometimes This evaluation does not give correct, realistic and accurate results. For example, a person with a primitive culture may read a book and enjoy the simplicity of the language and the beautiful writing style although presence of intellectual errors in it. . When this person evaluates the book based on a simple evaluation, he will give a high rating, but if a critic reads the same book and notices the intellectual errors. So when a critic evaluates a book based on a simple evaluation, it will give a low score .

This is a problem with simple evaluations, they do not give clear results because they depend on something general that can be explained by more than one thing.

But the composite evaluation depends on several criteria, which makes it more detailed, and therefore more accurate and objective. Composite evaluation depends on several criteria such as: language, objectivity, realism, credibility, clarity, grammar, simplicity ... etc. This puts more options for the user to evaluate.

So in this site we used composite evaluation.

Question 5 : We intend to create a website for the community of readers, as a reader, what features do you want the site to support ?

- 1-** Putting all sorts of categories .
- 2-** To be easy to use and access .
- 3-** Have a general idea of the book's content .
- 4-** Good classification of books and an easy site to deal with and download books through it and a feed back about each person's book experience.
- 5-** Appreciate the feature of likes and suggestions for similar books and allow comments for each book .
- 6-** Provide a suggestion box for each confused reader, so that he finds the names of books that correspond to the type of books he wants to read .
- 7-** Allow readers to provide their opinion and open a space for discussion with them .
- 8-** Tips and suggestions for reading books in a field we want .
- 9-** Open space for group discussions .

We did some of these ideas and the rest will be as future work, God willing.

3.2 Architectural of this site :

The activities performed by this user are requests to server, so the architecture used in this site is the client - server architecture.

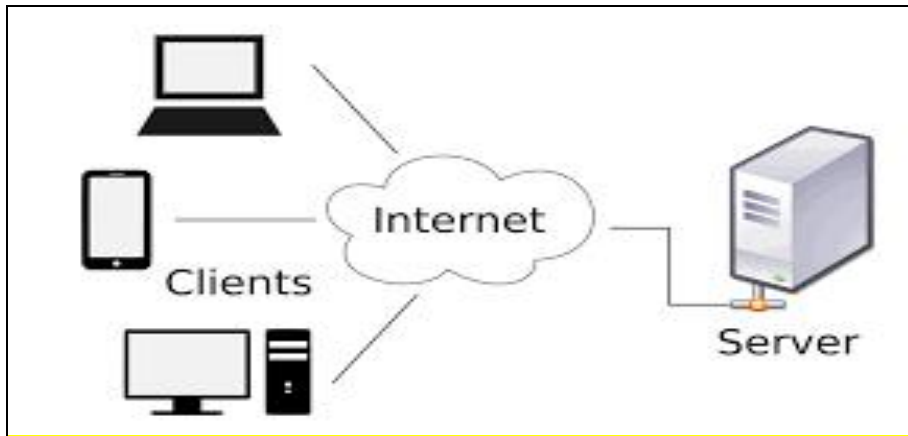


figure 5

3.3 Development Methodology :

This project is a readers club and the world of reading goes up , its tools evolve over time, and the needs and desires of users vary from time to time, so we must adapt to these changes ... Quick changes like that needs flexibility in development, so we used Agile Methodology in Development .

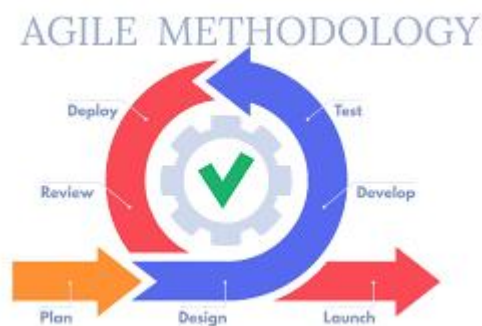


figure 6

3.4 Tools, Methods and Programming Languages

In designing this program, we used many programming languages, platforms and libraries, which we will explain in the coming pages :

3.4.1 Back end :

A. Node.js :

Node.js is an open-source, cross-platform runtime environment used for development of server-side web applications. Node.js applications are written in JavaScript and can be run on a wide variety of operating systems. Node.js is based on an event-driven architecture and a non-blocking Input/Output API that is designed to optimize an application's throughput and scalability for real-time web applications .¹

There are several reasons for us to use Node.js :

Node.js is not a framework like Angular, in node.js we are built from zero and this gives us flexibility in working .

In addition , it is easy to learn . Since JavaScript is one of the most popular programming languages, most of the front-end developers have a good grasp over it.

Working through We would like to gain more experience and make us take our first step to be full stack js developer .

There are other reason such as :

1. The Support of Large and Active Community .
2. The Advantage of Caching and garbage collection .
3. Offers the Freedom to Develop Apps .
4. Getting Support for Commonly Used Tools .
5. Handles the Requests Simultaneously .
6. Node.js is Highly Extensible .

B. ExpressJS :

Express.js is a web framework which is based on the core Node.js http module and Connect components. Those components are called middlewares . They are the cornerstone of the framework's philosophy, i.e., configuration over convention. In other words, developers are free to pick whatever libraries they need for a particular project which provides them with flexibility and high Customization .²

We used it to facilitate the linking process between backend and frontend .

C. Multer :

We used the Multer module to be able to upload and download files. Through which we download books and download them

D. MongoDB :

We used MongoDB to build our database :

MongoDB is a cross-platform, document oriented database that provides, high performance, high availability, and easy scalability. MongoDB works on concept of collection and document.³

We use MongoDB for some reason :

1 - **Schema less** MongoDB is a document database in which one collection holds different documents. Number of fields, content and size of the document can differ from one document to another.⁴

2 - Structure of a single object is clear .

3 - No complex joins .

4 - Tuning .

5 - Ease of scale-out - MongoDB is east to scale .

6 - Uses internal memory for storing the (windowed) working set, enabling faster access of data .

.

.

.

etc

E. Mongoos :

Mongoose is a MongoDB object modeling tool designed to work in an asynchronous environment . Everything in Mongoose starts with a Schema. Each schema maps to a MongoDB collection and defines the shape of the documents within that collection.⁵

We use Mongoose to work with MongoDB database.it is easy to structure database using Schemas and Models, Automate certain things when record is added or updated using Middlewares/Hooks and easily get the data we need by querying our models .

F. Chatting between users :

Socket.IO is a library that enables low-latency, bidirectional and event-based communication between a client and a server. It is built on top of the WebSocket protocol and provides additional guarantees like fallback to HTTP long-polling or automatic reconnection .⁶

We used socket.io which is single TCP connection full duplex Depends on web socket in application layer . this socket just send/receive messages . To make all messages available in any time we stored it in our database .

We used this socket to make people able to chat through private conversations .

G. Python :

We used this programming language to write some codes in our site . We used it to write recommendation system for books .

H. RS Recommendation System:

Recommendation system: We have built a recommendation system based on the content with the possibility of developing it in the future and making it more complex, depending on the user's evaluation of books, where the application saves all the evaluations made by user and based on these evaluations determines what are the tendencies of this user and on this basis it displays User's books .

Book list from database :

Every book on this site carries a classification, for example, there are books classified as political. Others are classified as historical ,there are books classified as historical and political .

to represent this thing logically, for example: If the book is political and historical, we put 1 in the politics box and the history box, the rest of boxes contain a zero as shown below :

Book List table :

book_name	book_id	politica	history	cultural	doctrine	islamic_call	economie	sociology	belief
Islamic politica	1	1	1	0	0	0	0	0	0
Montalaq	2	0	0	0	0	1	0	0	0
Massar	3	0	0	0	0	1	0	0	0
Awa'q	4	0	0	0	0	1	0	0	0
Rqa'q	5	0	0	0	0	1	0	0	0
Islamic history 1	6	1	1	0	0	0	0	0	0
Islamic history 2	7	1	1	0	0	0	0	0	0
Abbassed caliphated 1	8	1	1	0	0	0	1	1	0
Abbassed caliphated 2	9	1	1	0	0	0	0	1	0
Abbassed caliphated 3	10	1	1	0	0	0	0	1	0
Othman empire	11	1	1	0	0	0		0	0
Hasan Al Bana	12	0	0	0	0	1	0	0	0
Qiama	13	0	0	0	0	0	0	0	1

figure 7

User rating table:

This table contain Books which user rated , and its corresponding rates rates .

index	book_name	author	book_id	book_rating
0	Islamic politica	Sami Ahmad	1	3.5
1	Montalaq	Mohammad Rashid	2	4.5
2	Massar	Mohammad Rashid	3	4.5
3	Awa'q	Mohammad Rashid	4	4.5
4	Rqa'q	Mohammad Rashid	5	4.5
5	Islamic history 1	Group Al wafa	6	3
6	Islamic history 2	Group Al wafa	7	3
7	Abbass 1	Mohammad Alhami	8	3.5
8	Abbass 2	Mohammad Alhami	9	3.5
9	Abbass 3	Mohammad Alhami	10	3.5

figure 8

We multiply each row in book List with its rated value from “User Rating” table , then we calculate the total points for each category :

book_name	book_id	politica	history	cultural	doctrine	islamic_call	economic	sociology	belief
Islamic politica	1	3.5	3.5	0	0	0	0	0	0
Montalaq	2	0	0	0	0	4.5	0	0	0
Massar	3	0	0	0	0	4.5	0	0	0
Awa'q	4	0	0	0	0	4.5	0	0	0
Rqa'q	5	0	0	0	0	4.5	0	0	0
Islamic history 1	6	3	3	0	0	0	0	0	0
Islamic history 2	7	3	3	0	0	0	0	0	0
Abbassed caliphated 1	8	3.5	3.5	0	0	0	3.5	3.5	0
Abbassed caliphated 2	9	3.5	3.5	0	0	0	0	3.5	0
Abbassed caliphated 3	10	3.5	3.5	0	0	0	0	3.5	0
sumation		20	20	0	0	18	3.5	10.5	0

figure 9

From previous example we conclude That the most rating value is for politica and history .

Regarding to these result , site will recommend user to Read top 10 books categorized as political and historical books .

The result of these operation is displayed on the main page with slider container .

Implementation :

We implement this RS by writing python code , then we embed this code in our website . the result of this part shown in main page .

3.4.2 Front end

A. React library :

React is a JavaScript library created by a collaboration of Facebook and Instagram . Its aim is to allow developers to create fast user interfaces easily.

Why React

We used this library in the design of the interfaces because we have prior knowledge of this library, in addition to several reasons :

- 1- Ease to learn : especially as it is a library for JavaScript, and we have knowledge of Javascript before .
- 2- Ease of design and organization: because this library is based on the principle of component .
- 3- The advantage of reuse: through which we were able to reuse components more than once in different places without the need to rewrite them .
- 4 - React is used to build single-page applications .

The use of React library is increasing among programmers, so using React in project development will help in communicating with programmers who use React, which will save a lot of time and effort in the future. There are many statistics say that, including this statistic from “stackoverflow” site⁷ , see figure 10 :

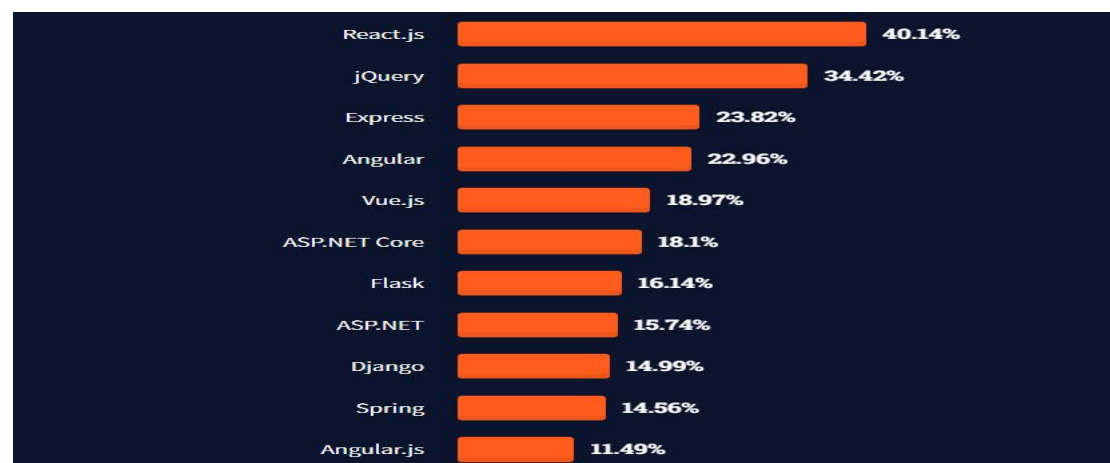


figure 10

B . Used Libraries in Front End design :

React library offers many features and is contains many libraries, and this saves a lot of effort and time, because these libraries provide ready-made components in a beautiful and attractive style :

in this website we used many libraries such as :

MUI Material User Interface library :

Material UI is an open-source library of React UI components that implements Google's Material Design.

It includes a comprehensive collection of pre-built components that are ready for use in production right out of the box.

Material UI is beautiful by design and features a suite of customization options that make it easy to implement your own custom design system on top of our components.

TipTap Library :

Tiptap gives us full control about every single aspect of our text editor experience. It's comes with a ton of extensions, is open source and has an extensive documentation.

We Use this library (@tiptap) to enable user to chat effectively with others . With this editor user can comment ,upload photos ,make styles for fonts , write code , and so on .

Icon material library :

We used this library in order to get icons to use on the site.
[@mui/icons-material](#)

Swiper Library :

Swiper is a very useful library with introducing functions about swipe, like pagination, navigation, and have various features. I will share my knowledge about the swiper.

[Swiper.js](#)

C. PspdfKit :

Most sites display books in PDF format, without the ability to take notes, write comments, and share them with others. In this site we used a SDK called (PSPDFKit) that allows users to write notes on books, save them and share them with others.

D. React native :

React Native is a JavaScript framework for building native mobile apps. It uses the React framework and offers large amount of inbuilt components and APIs.⁸

Because we used React in designing the website, it is better to design the mobile application through React, because it will save time and effort .

The project is a website. In addition to this website, we designed a simple mobile application that displays books in the user's private library with the ability to download and read .

E. HTML & CSS :

In this project, we relied on ready-made components as much as possible: but sometimes we did not find components that fit some functions in the project, so we had to design components with a certain style, so we wrote code by HTML and CSS to design these component

3.5 Description of the application:

Flow chart for movement between pages :

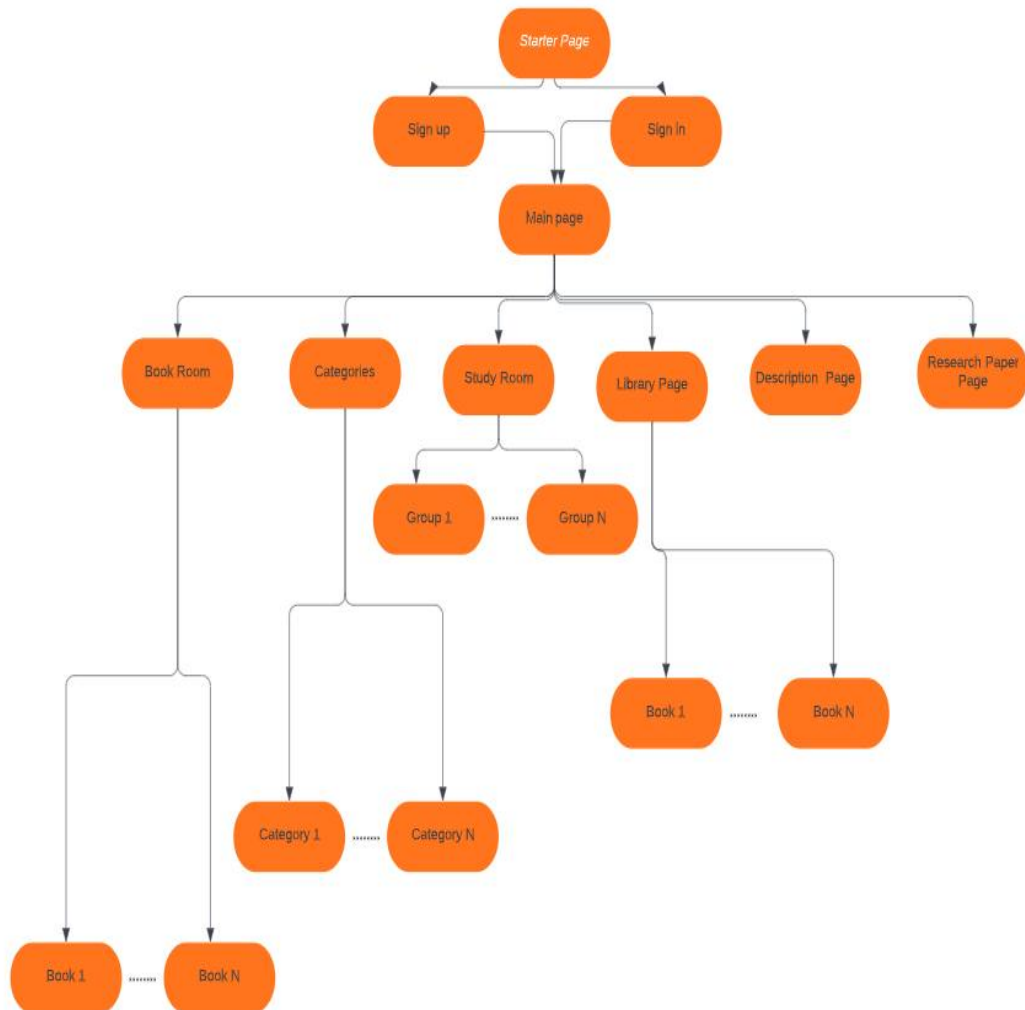
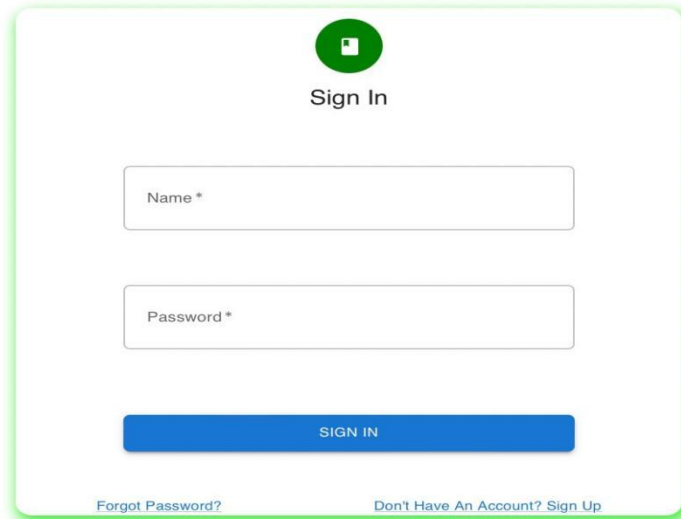


figure 11

A. Sign in Page :

Log in to the site by entering your name and password.



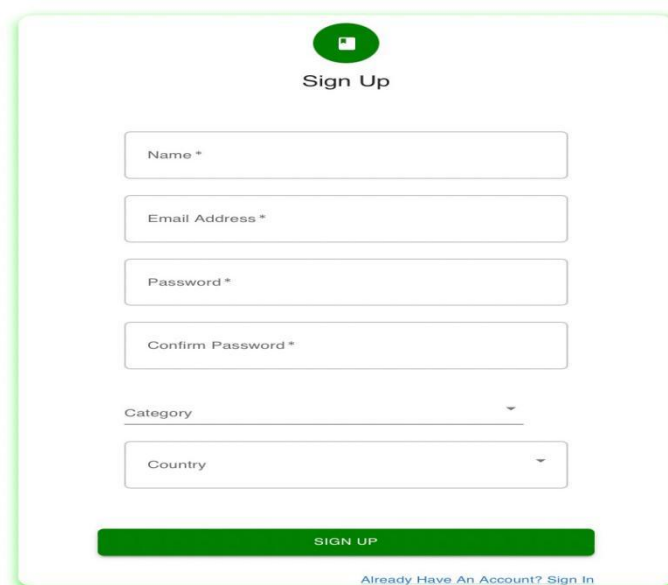
The Sign In form is enclosed in a light green rounded rectangle. At the top center is a green circular icon with a white document symbol. Below it is the text "Sign In". The form contains two input fields: "Name*" and "Password*", both with asterisks indicating they are required. Below these fields is a blue button labeled "SIGN IN". At the bottom left, there is a link "Forgot Password?". At the bottom right, there is a link "Don't Have An Account? Sign Up".

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figure 12

B. Sign up Page :

We register an account on this site through this page :
You have to enter some information to make Registration account.



The Sign Up form is enclosed in a light green rounded rectangle. At the top center is a green circular icon with a white document symbol. Below it is the text "Sign Up". The form contains five input fields: "Name*", "Email Address*", "Password*", and "Confirm Password*", all with asterisks indicating they are required. Below these fields are two dropdown menus: "Category" and "Country". At the bottom is a green button labeled "SIGN UP". At the bottom right, there is a link "Already Have An Account? Sign In".

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figure 13

C. Main Page :

This is the first page that appears when entering the site, through this page we can access other pages as shown in the flowchart above (figure 11)

In the container for this page, 4 sets of books are displayed :

1- Featured books

The admin displays the most popular books through this component .

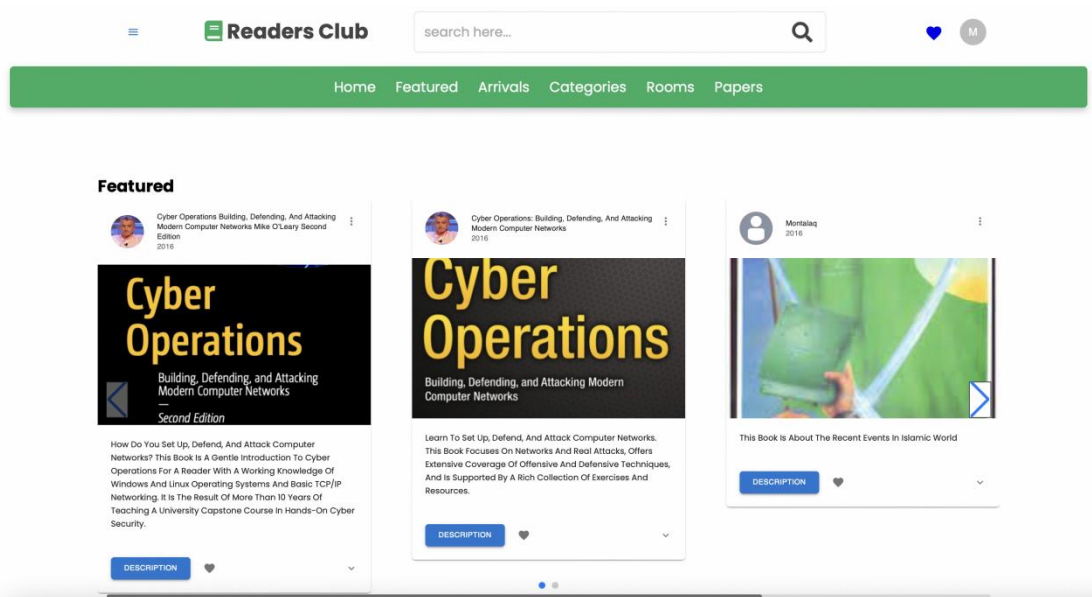


figure 14

2 - Arrivals books

This page displays new books published a week ago .

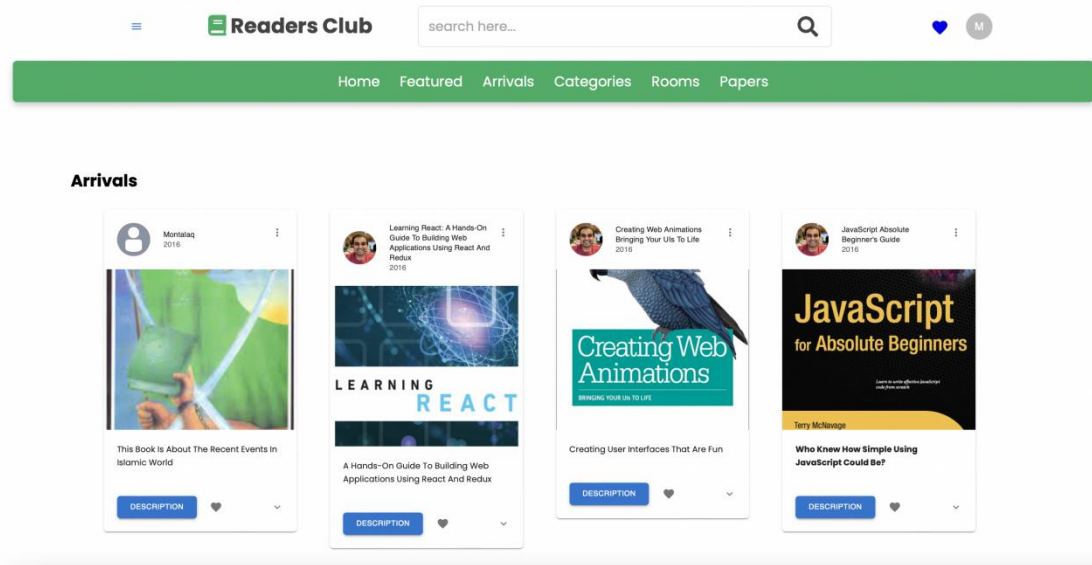


figure 15

3 - Wish List books

Displays the books that the user wants to read .

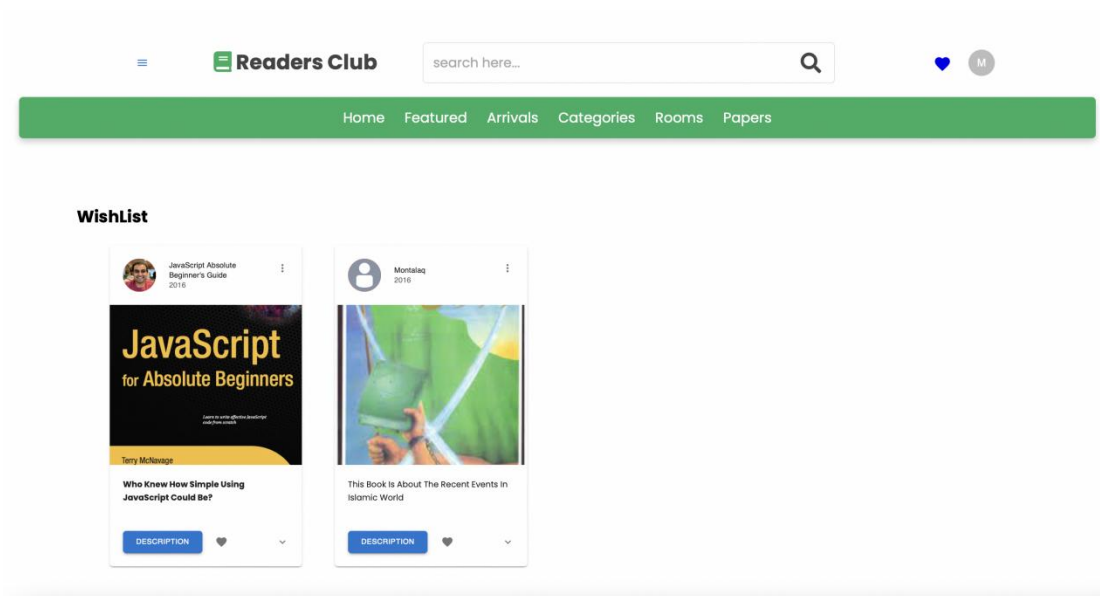


figure 16

4 - Recommended books

This page displays the books that suit the user based on a recommendation system .

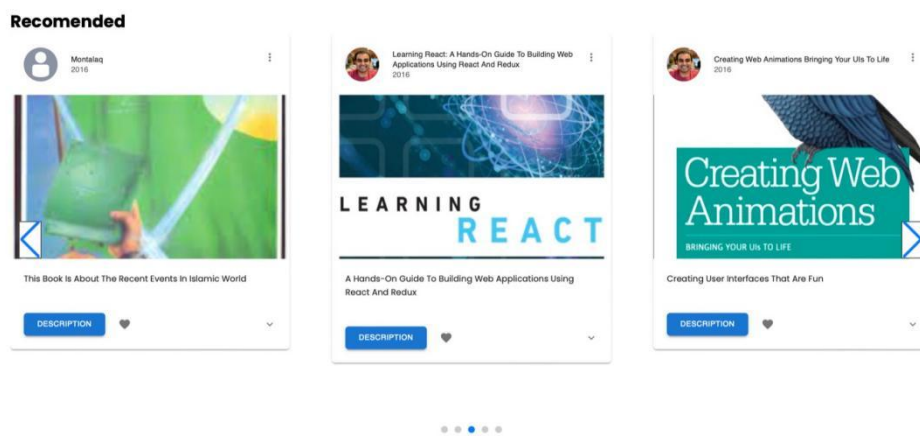


figure 17

D. Categories page :

This page displays book categories



figure 18

E . My Library Page:

This page displays the books that the user has added to his library.

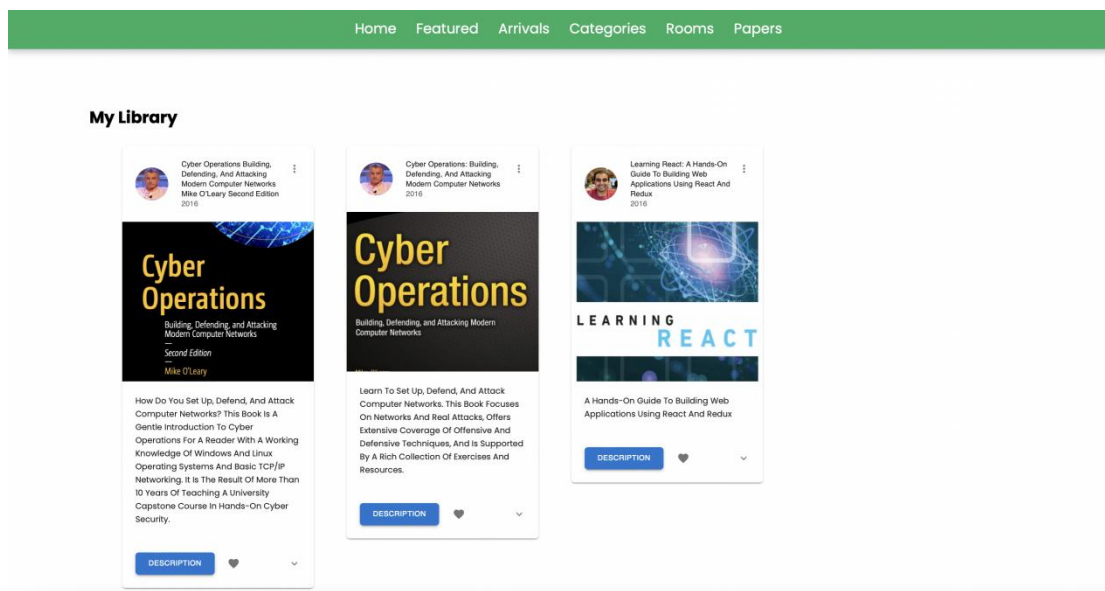
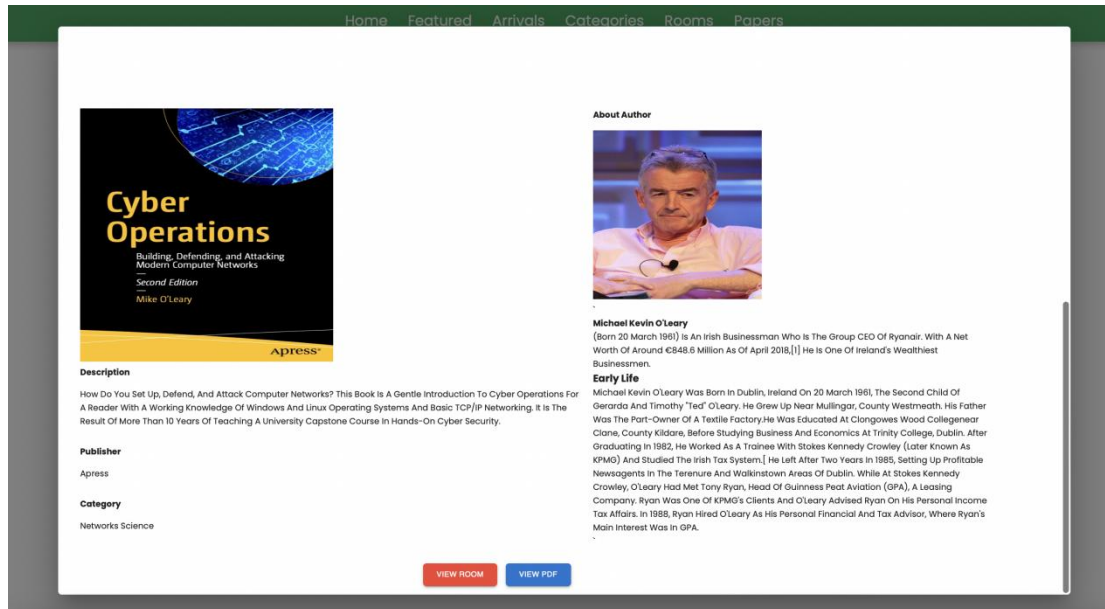


figure 19

F. Description page:

This page presents a description of the book and the author of this book .

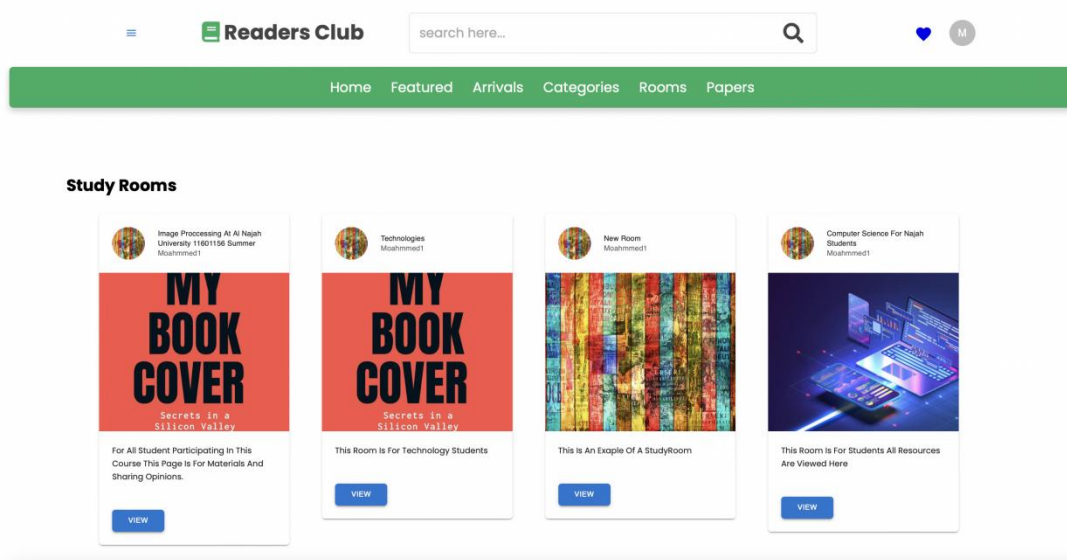


The screenshot shows a book description page for "Cyber Operations: Building, Defending, and Attacking Modern Computer Networks, Second Edition" by Mike O'Leary, published by Apress. The page includes a navigation bar at the top with links for Home, Featured, Arrivals, Categories, Rooms, and Papers. The book cover is displayed on the left, and the author's bio is on the right. The bio mentions that Michael Kevin O'Leary is the Group CEO of Ryanair and is worth approximately €848.6 million as of April 2018. It also details his early life, including his education at Clongowes Wood College and his work with Stokes Kennedy Crowley. At the bottom of the page, there are two buttons: "VIEW ROOM" and "VIEW PDF".

figure 20

G . Study rooms page :

This page displays the names of groups organized by users on this site .



The screenshot shows the "Study Rooms" page on the Readers Club website. The page features a navigation bar at the top with links for Home, Featured, Arrivals, Categories, Rooms, and Papers. Below the navigation bar, there is a search bar and a user profile icon. The main content area displays four study room cards, each with a book cover and a description. The first card is titled "Image Processing At Al Nahj University 11601154 Summer Moahmed1" and features a book cover with the text "MY BOOK COVER Secrets in a Silicon Valley". The second card is titled "Technologies Moahmed1" and also features a book cover with the text "MY BOOK COVER Secrets in a Silicon Valley". The third card is titled "New Room Moahmed1" and features a colorful abstract image. The fourth card is titled "Computer Science For Nahj Students Moahmed1" and features a book cover with the text "MY BOOK COVER Secrets in a Silicon Valley". Each card has a "VIEW" button at the bottom.

figure 21

H . Book room

On this page, we can discuss and rate book .

The screenshot displays the 'Book room' interface for the book 'Cyber Operations'. At the top, a green navigation bar contains links for Home, Featured, Arrivals, Categories, Rooms, and Papers. The main content area is divided into three columns. The left column features the book cover for 'Cyber Operations: Building, Defending, and Attacking Modern Computer Networks, Second Edition' by Mike O'Leary. The middle column shows a 'Ratings' section with a bar chart for various criteria: General Rating (63%), Difficulty Rating (35%), Objectivity Rating (74%), Clarity Rating (34%), Realism Rating (69%), and The Language (98%). The right column displays a profile picture and name for Mike O'Leary. Below these columns is a 'Rate The Book' section with sliders for General Rating, Difficulty Rating, Objectivity Rating, Clarity Rating, and Realism Rating. A comment by Moahmmedi from 2022-08-13 at 12:31 is visible, along with a 'Rate The Book' section with sliders for General Rating, Difficulty Rating, Objectivity Rating, Clarity Rating, and Realism Rating. A comment by Moahmmedi from 2022-08-13 at 12:59 is also present.

figure 22

I . Paper Page :

From this page we can upload Research Papers .

The screenshot shows the 'Paper Page' interface. At the top, a green navigation bar contains links for Home, Featured, Arrivals, Categories, Rooms, and Papers. Below the navigation bar, the 'Papers' section is displayed. It includes a 'Category' dropdown menu, a 'Language' dropdown menu, and an 'ADD YOUR PAPER' button. Two paper listings are shown. The first listing is titled 'Paper In Scientific Miracles Of Quran' and features a cover image with the word 'HISTORY' and a pocket watch. The second listing is titled 'Arduino Nano Technology' and features a cover image showing a smartphone and a tablet. Both listings have 'READ' and 'DISCUSS' buttons.

figure 23

J . Chatting :

Users can chat with each other from this page .

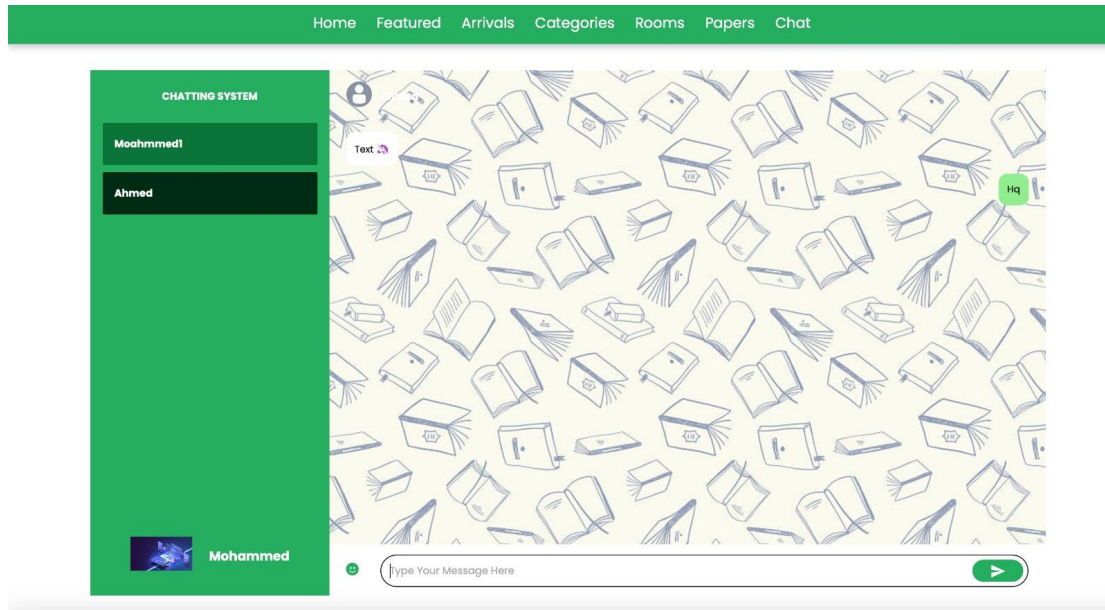
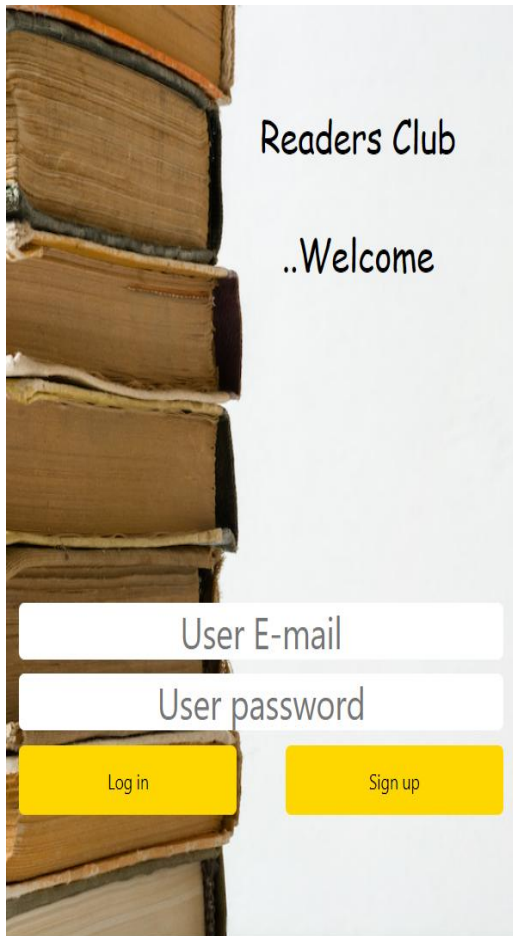


Figure 24

Q. Mobile App Pages :

Sign in page



Sign up page

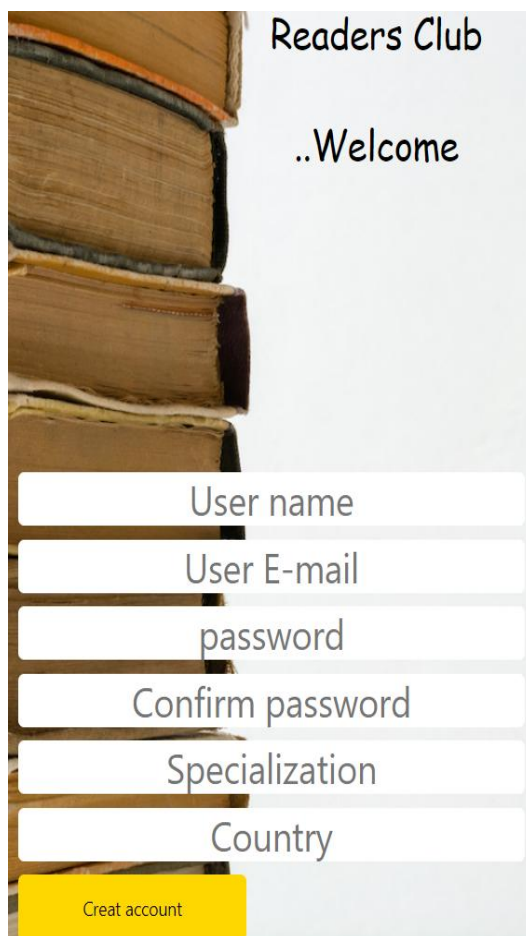


figure 25

My library Page

From this mobile page we can read and download books

My library

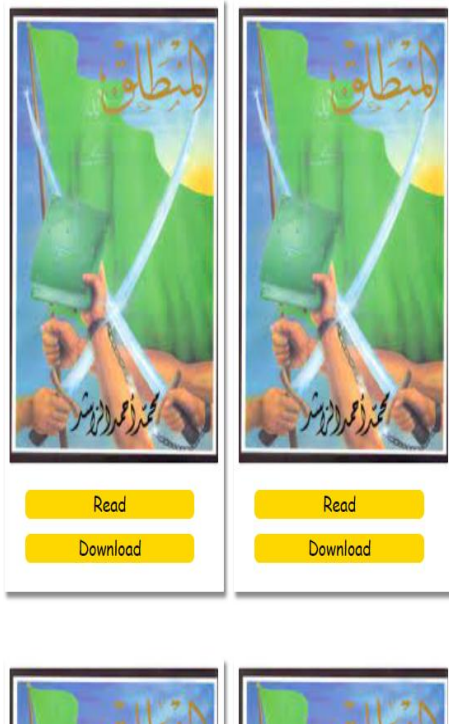


figure 26

4. Difficulties :

We faced some difficulties after we started implementing this project, and this led to reconsidering some of goals that we set when we started this project, which slowed the development process with a very limited time, and as computer engineering students: the problem was not in what tools we should use it to design this site, but it was in the idea of the project itself, the idea was not wrong or useless, but the project is linked to the world of reading, it is an ocean without limits. Here are the main difficulties we faced :

1- User culture level.

The biggest problem that we faced, is that we are in a society that does not read. Some statistics say that an Arabic person reads an average of 1 book a year, while a Western person reads an average of 45 books a year. Technically, the site plays its role in receiving information and building conclusions, but the site also depends on the culture of the user, and this is the problem.

Let us illustrate this point with an example, the thinker Muhammad Ahmad Al-Rashid: He is an Islamic thinker and author of books. The books he writes consist of Arabic words from the core of the Arabic language, beautiful words, and he uses rhetoric extensively, and presents realistic and objective ideas. Many thinkers and educated people know this. But if a novice reader reads these books, He will judge the book that its language is difficult and that its idea is not clear Although the opposite is true .

The reason for this is the low level of user culture, and we previously talked about the level of culture in the Arab world, and this sometimes leads to giving incorrect evaluations to some books .

2- Team work

To manage project like this , We need a Big team consist from programmers , readers , teachers , and thinkers . Developing this project just with two programmers is hard work , with fast changes .

3- Lack of Big database for Arabic books .

There is no big database classified for Arabic books . So we spent time and effort to search books .

5.Future work :

Since the beginning of the project, we have faced many difficulties and problems, and as the development process continues, many problems will appear. The Appearance of these problems and thinking about them led us to creative solutions that we can do in the future. Here we present some of these solutions as work in the future :

Classification :

In order to solve the problem of low user culture, in the future we will classify users into two categories, the first category will include thinkers and intellectuals, the second category will include normal users. The first category will be given 60 percent of the general vote, while normal users will be given 40 percent of the general vote, in an attempt to reduce the impact of the problem of low level of culture .

Forming a work team :

Form a small work team consisting of thinkers, programmers and critics in order to develop the project to be suitable and effective .

Big Data Base :

Launching an initiative to start designing a database of Arabic books, and making meetings with help of famous thinkers and readers .

Features requested by some readers :

1. If a person puts down some of his hobbies, and accordingly, some books are suggested to him .
2. Meeting to discuss a specific book .
3. Add reader experience and reason .
4. Publishing rare books .
5. Availability of discussions through audio or video .
6. Possibility to download other readers' notes about the book .

7. The use of textual analysis methods such as monitoring the content of writing and checking the language of the writer .
8. A special section for each section of the books, such as historical books, novels, or.... Create an activity to read a specific book and agree to finish it before a certain date, then hold an electronic discussion on the book.
9. Having a library to add books to as they are (I intend to read, I am reading it now, or I have finished reading it) .
10. A portal to suggest the names of books in the event that there is not what we are looking for in order to provide them on the site in the future .
11. All books are available in Arabic and English .
12. Ease of communication between readers, having a page for each reader to share his book reviews .
13. Evaluate books across sufficient categories such as: (ease of reading, target group, acquired skills...) but not to increase or reduce the number of categories .
14. There should be an evaluation of books in the form of a general question and not an evaluation in terms of numbers .
15. Thinkers discusses readers, and guides them to a systematic way of thinking .
16. Also, downloading audio books and providing paper books that can be exchanged between members for lovers of paper books .

6. Conclusion :

At the end of this project, we learned a lot of things, software tools, frameworks, searching for information, how to get information, learning things quickly, connecting components, polling people's opinions, and working in a team . In fact, we tried to use skills we learned at university and apply them through this project .

In addition , we tried as much as possible to learn Full Stack skills to be ready for the job market .

The most important thing is that we learned a lot about the world of books and readers, in fact it is a world without borders, every day there are new books, new categories, new ideas. This gives us an incentive to develop ourselves. In other words, it's good to be an engineer, but what's even better is to be an engineer who reads books and thinks .

¹ Node Js LEARN IN 1 DAY , Krishna Rungta , page 6 .

² Express.js guide , Azat Mardan , version was published on 2014-05-28 , page 22 .

³ MongoDB : https://www.tutorialspoint.com/mongodb/mongodb_overview.htm .

⁴ MongoDB : https://www.tutorialspoint.com/mongodb/mongodb_advantages.htm .

⁵ Mongoose : LEARNING mongoose , From stack overflow , page 2 .

⁶ Socket.IO : <https://socket.io/docs/v4/> .

⁷ Survey from stack overflow site .

⁸ React Native definition : https://www.tutorialspoint.com/react_native/index.htm .