

**Bookstagram** 

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# Bookstagram

# **Development Document:**

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### OBJECTIVE:

This document contains all development related documents such as Code documentation, Specifications, Designs & Test Case Scenarios. Moreover, it also contains details related to hardware and software Interfaces and UI screenshots.

## HISTORY:

Market Analysis The below are the list of web applications available in the market differentiating based on customer base, type of content and free to download. We have also mentioned what each application's unique selling point is in the market. Applications available in the market use the concept of eBook reading platform in a community and author's new uploads.

Applications	Mobile App/We b App	USP	Customer Base	Conten t	Free/Price
GOODREADS	Web app	networking with friends, book challenges, book cataloguing, giveaways.	75,00,000	Text, Audio, Video	Free
LIBRARYTHING	Web app	Catalogue books from Amazon and other libraries.	23,00,000	Text, Audio, Video	Chargeable
BOOK CROSSING	Web App	Label and share to stranger	20,00,000	Text	Free



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### **INTRODUCTION**

#### 1. Problem Definition:

Bookstagram is Saas solution which combines social media and reading platform for booklovers and struggling authors who can e-publish books and track virality of the book.

2. Intended Audience and Reading suggestions:

Target Audience this web application would be.

- Bibliophile, strong book lovers who can encourage new contents and authors
- Writers, any authors who wants to see the feedback structure and watch the virality in terms of buying.

#### 3. Product Scope:

- Applications available in the market use the concept of eBook reading platform in a community and author's new uploads.
- Bookstagram has Recommendation tree feature where the author has track the virality of their book.
- Ticker solution is implemented which notifies all users in the community that a new book has been bought.
- Referral solution will be implemented which makes the users and authors have monetary benefits.

#### 4. References

- https://ieeexplore.ieee.org/document/5070899
- https://resources.github.com/videos/github-best-practices/
- https://confluence.atlassian.com/jira/jira-documentation-1556.html



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## **OVERALL DESCRIPTION**

### 1. Product perspective

Bookstagram is follow on member of social cataloging website which allows users to search the database of books, annotations, quote and reviews. Users must sign up and buy books from library catalogs and their contacts. Client uses web application as interface which get the connection and result set from backend.

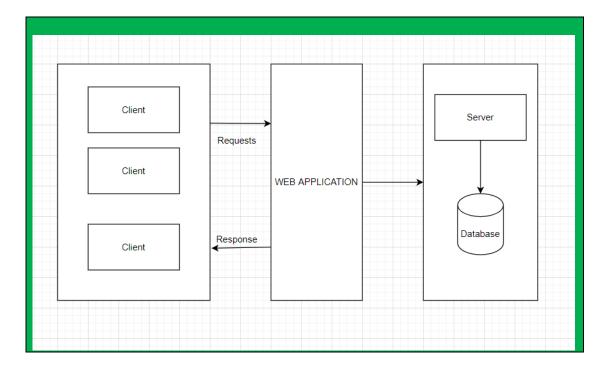


Fig: B/S Architecture of the system



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2. Product functions

#### • Sign Up on Bookstagram:

New users should sign up. Users will also need to verify their account using a link sent to them by mail.

### • Sign In, View and Update profile details:

Users can click on edit and update these details and click on save.

#### • Like, Comment and Share a post:

A user can view all the posts posted by them or by any of their friends on the dashboard. Users can like and comment on a post and it is instantly reflected under that post.

#### Find, Add and Remove friends:

Users can accept requests or remove friends by clicking on relevant buttons.

#### View My books, Buy New Books and rate books:

A user can click on my bookshelf to view all the books previously bought by the user at a single place.

#### Read Books on the Platform:

A user can click on my bookshelf to view all the books previously bought by the user at a single place.

#### Author Dashboard:

An author has a dashboard where there is a dropdown of owned books and t their respective recommendation and referral tree to see how these books become viral on Bookstagram platform.

#### Author Upload Book

An author user can go to upload books with details like category, title, description, cover photo and PDF.

#### • Recommendation Tree:

A recommendation/ referral tree consists of the author as the parent node always.

The below shown are data flow diagram which specifies major functions of the product for both users – readers and authors.



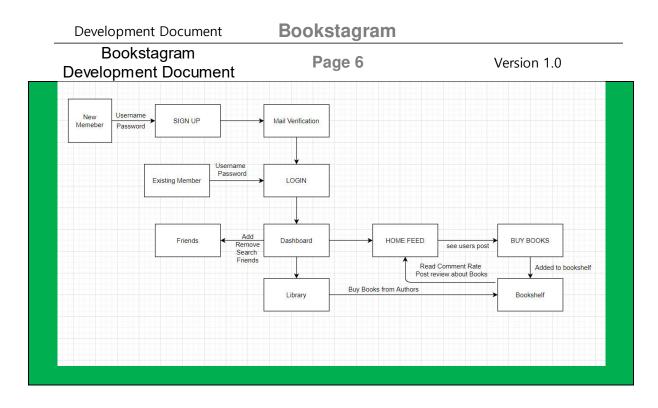


Fig: Data flow diagram for readers

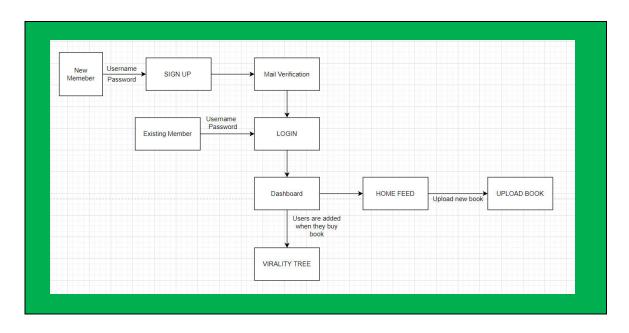


Fig :Data Flow Diagram for authors



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#### 3. User classes and characteristics

Use case view defines what functions the system should provide, and describe what problems the system should help users to solve. The use case diagram consists of such model elements as system, role and case; it also needs to specify the relations between elements, between role and case, as well as between roles. The use case view of the Bookstagram is mainly responsible for describing the relation between role and case. In the system, there are 2 roles: Reader and Author, each of which has their own case.

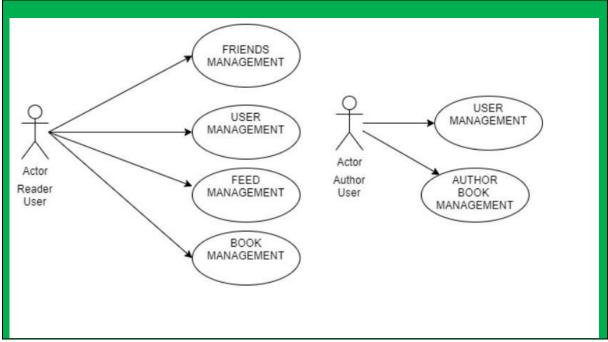


Fig: Use case View for Actors

#### 4. Operating Environment

The software needs Linux operating system to deploy the backend server with Python virtual environment and Apache 2 installed for backend server to coexist. All node packages are installed while deploying as there are present in package. Json.

#### 5. Design and Implementation Constraints

The below technical constraints are flexible for every phase of software development lifecycle.

Web Browsers: Google chrome, Mozilla Firefox, Internet Explorer, Safari, Opera



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Web Browsers	Google chrome, Mozilla Firefox, Internet	
	Explorer, Safari, Opera	
Languages	Python: v3.6	
	React.is	
	• node v10.19	
	• npm v6.13.0	
	HTML 5	
	CSS 3	
Frameworks	Django : v3.1	
Database	MongoDB: v4.4	
Web Server Sofware	Apache: v2.4	
Management Tools	JIRA: v8.6.1	
	GITHUB	
Deployment Cloud	Microsoft Azure for Backend server	
	AWS S3 for frontend	
Backend Server Specification	Size: Standard D2 v3	
	VCPU's :2	
	Memory: 8 GiB	
	Max data disks: 4	
	NIC 2/moderate	
	IOPS/ Read MBps : 3000/46	
Security Considerations	Private VPC: 10.0.0.0/8	
Regulatory Policies followed	GDPR	
	CAA	

### 7. Assumptions and Dependencies

- Operating system:
  - This application is developed for all web browsers.
- Bandwidth:
  - Bandwidth plays important role to view the virality live and upload new books. Users must have good bandwidth to hear/ watch podcasts for later developments too. It will be optional.



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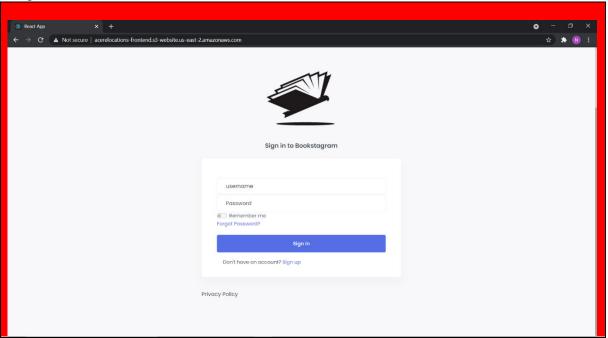
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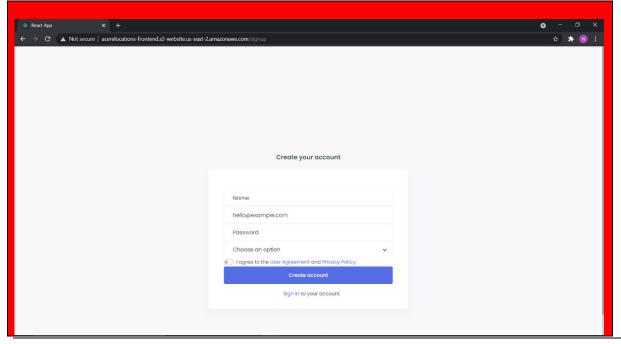
## EXTERNAL INTERFACE REQUIREMENTS

1. User Interfaces

Log-in screen:



Sign-Up Screen: Before Filling up details.



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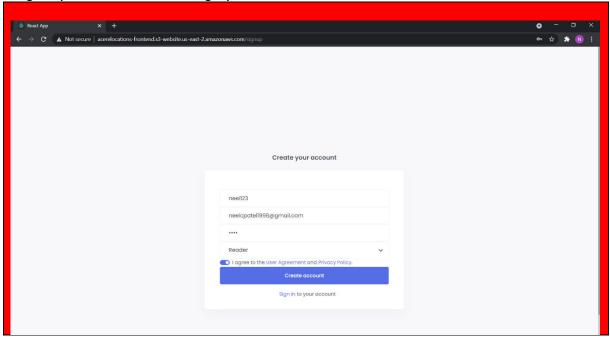
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Sign-Up Screen: After Filling up details.



Mail for account verification:

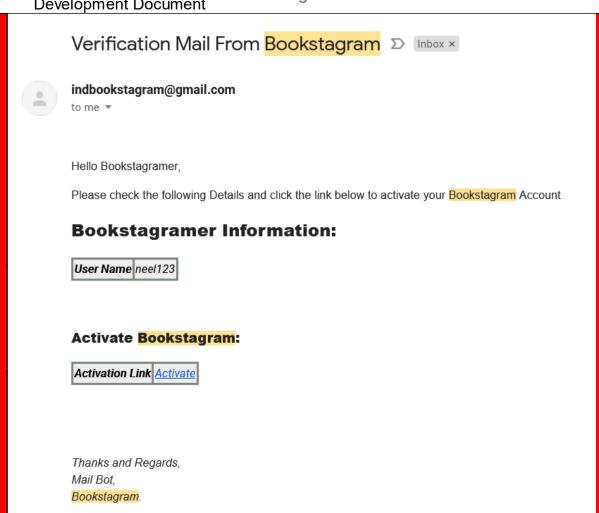


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## Dashboard after User login:

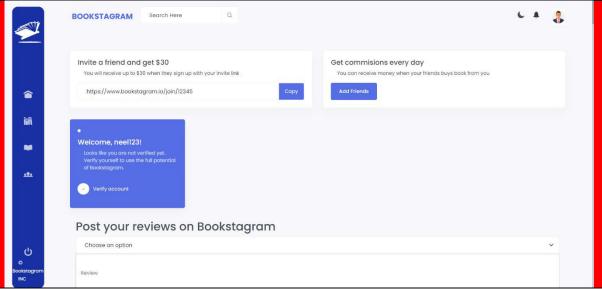


## Bookstagram

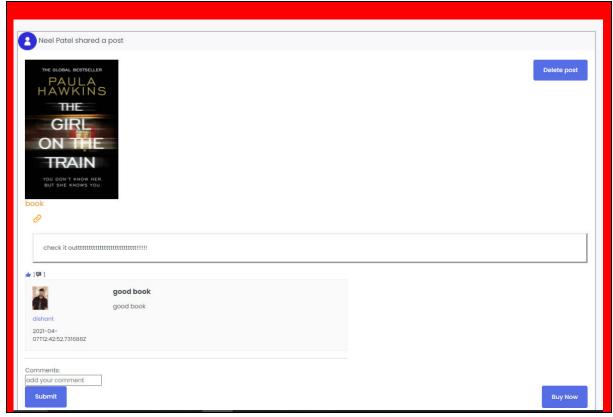
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Post in Bookstagram:



My bookshelf UI:

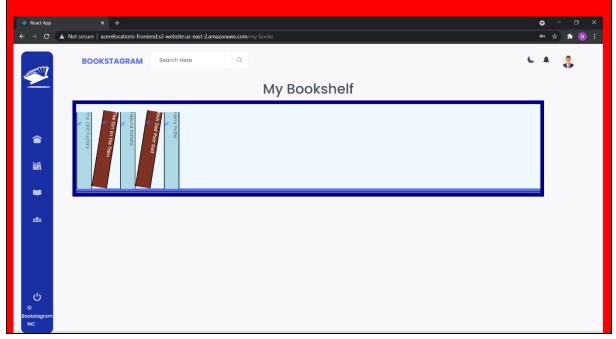


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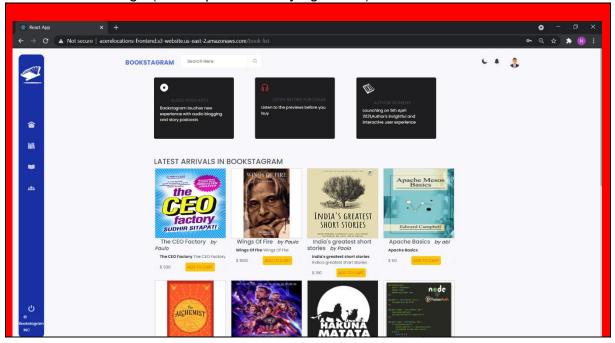
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List of Books Page (Marketplace for buying books):



Page for any specific book:

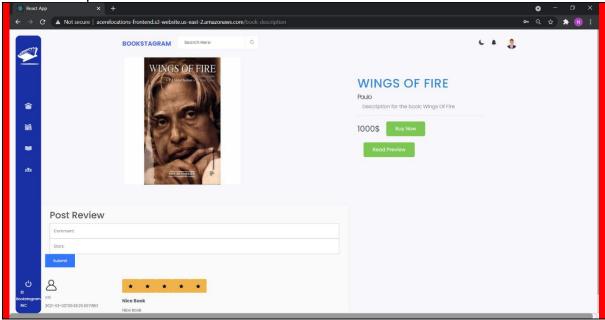


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## After buying book:



## Add new friends UI:

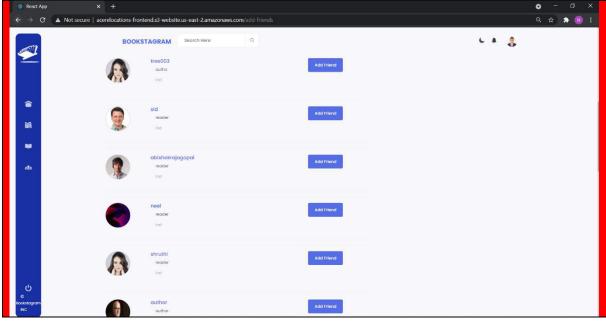


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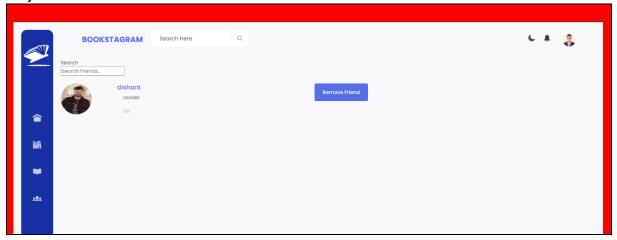
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## My Friends UI:



## My Profile Settings:

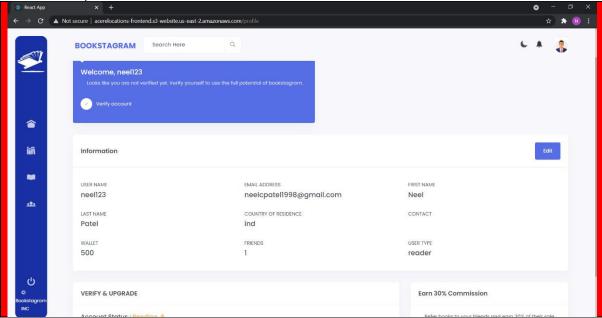


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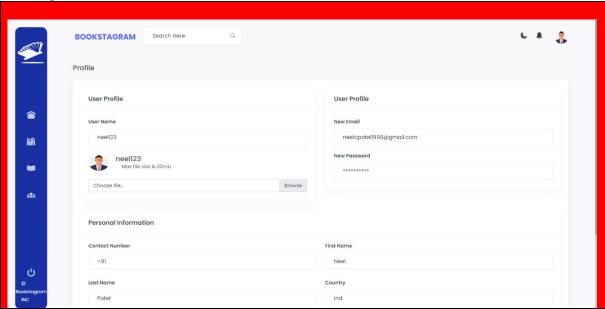
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Editing Profile information:



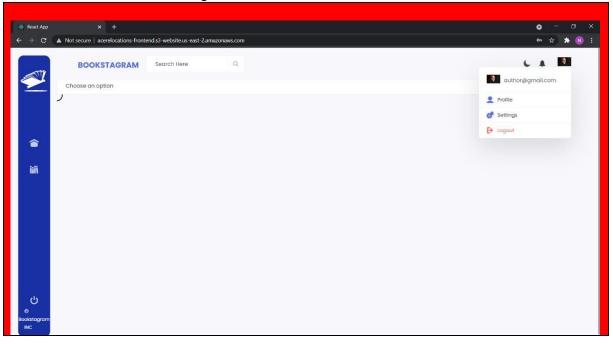
Notifications Ticker:



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Bookstagram Page 17 Version 1.0 **Development Document** Announcements Book Bought Ticker Neel Patel Bought book Harry Potter from Paulo Coelho 2021-04-14T07:18:28.329185Z Book Bought Ticker Dishant Shah Bought book Harry Potter from Paulo Coelho 2021-04-14T07:13:16.205582Z Book Bought Ticker Dishant Shah Bought book BookName from Paulo Coelho 2021-04-14T05:36:32.075874Z Book Bought Ticker Dishant Shah Bought book Rich Dad Poor Dad from Paulo Coelho 2021-04-07TI2:58:20.663369Z Book Bought Ticker Dishant Shah Bought book Rich Dad Poor Dad from Paulo Coelho 2021-04-07T12:56:49.033418Z Book Bought Ticker

Dashboard after Author Login:





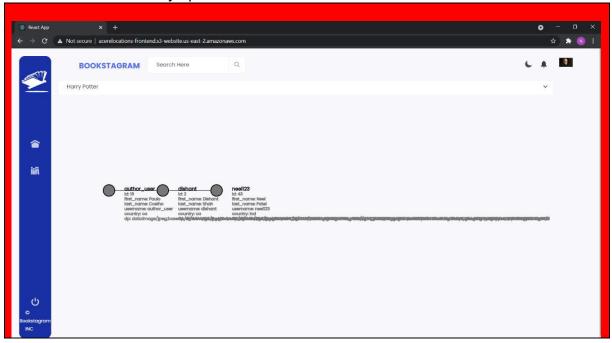
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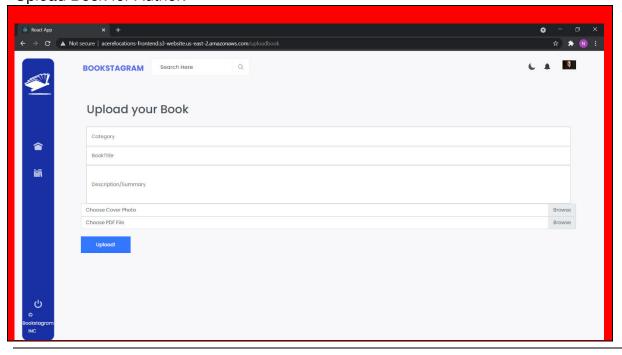
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Reference Tree for any specific book:



Upload Book for Author:





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2. Hardware interfaces

This application works on any PC and tablets. No other hardware is required.

3. Software interfaces

Since this application is a web application, it is compatible on browser order to perform.

4. Communication interfaces

This application uses email for user verification which allows the user to login to the interface.



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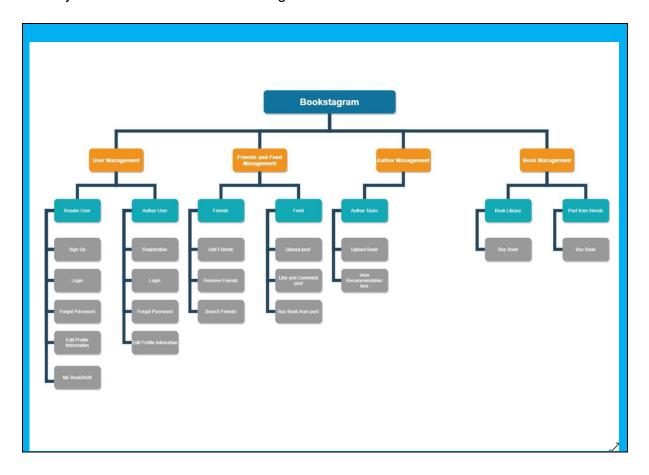
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## System Features

Bookstagram software has 4 modules: user management, Friends and Feed Management, Author Management and Book Management. The general structure of the system functions is shown in Fig.

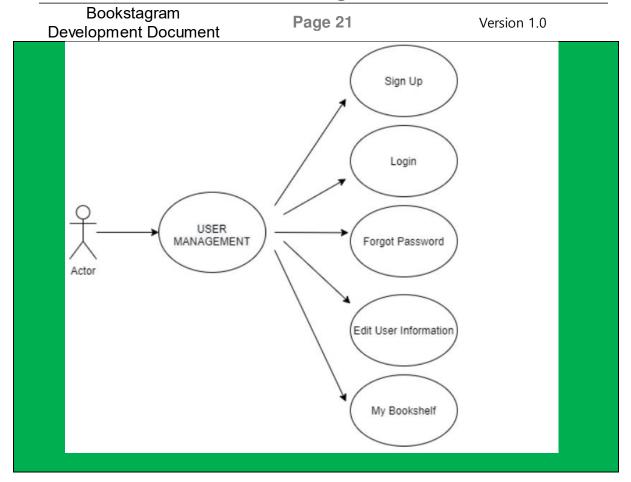


#### 1. USER MANAGEMENT:

Use case diagram of this module:

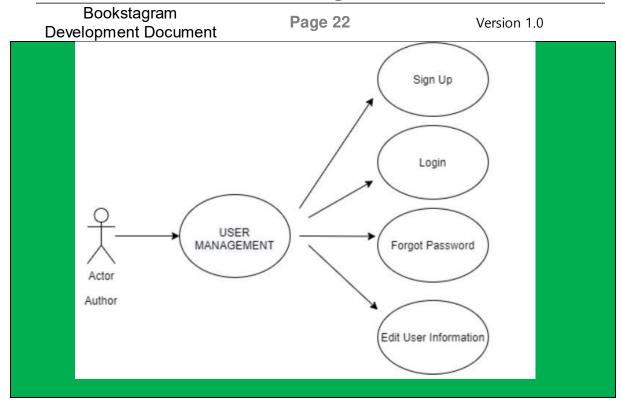


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## **Bookstagram**



User Case Number:	1
Use case Name	User Management – Sign Up
Summary	Use case management allows users to
	Register
Actor	Authors and Readers
Trigger	Sign Up Button
Precondition	Navigate to the website
Scenario	When new users enters Bookstagram,
	he needs to register with User name
	and password
Post Condition	Mail verification

User Case Number:	1
Use case Name	User Management – Login
Summary	Use case management allows users to
	Login
Actor	Authors and Readers
Trigger	Sign in Button
Precondition	Navigate to the website
Scenario	When existing users enters
	Bookstagram, he needs to login with
	User name and password

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Post Condition Dashboard

User Case Number:	1
Use case Name	User Management – Forgot Password
Summary	Use case management allows users to retrieve Password
Actor	Authors and Readers
Trigger	Forgot Password
Precondition	Navigate to the website
Scenario	When existing users forgets the
	password we can retrieve the password
	with mail
Post Condition	Password sent in Mail.

User Case Number:	1
Use case Name	User Management – Edit Personal
	Information
Summary	Use case management allows users to edit profile information
Actor	Authors and Readers
Trigger	My Profile> Edit Settings
Precondition	Logged in to Bookstagram
Scenario	When user wants to change profile
	picture and any information.
Post Condition	New Profile information reflected,
	Changes saved message

### 2. Friends and Feed Management:



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Bookstagram Page 24 Version 1.0 **Development Document** ADD/ REMOVE **FRIENDS** SEARCH FRIENDS FRIENDS AND FEED UPLOAD POST MANAGEMENT Actor READER LIKE/COMMENT POST

User Case Number:	2
Use case Name	Friends Management - Add/ Remove
	Friends
Summary	Friends Management allows reader to
	add/ remove friends
Actor	Readers
Trigger	Add Friends / Remove Friend
Precondition	Logged in to Bookstagram
Scenario	Reader can add or remove friends to
	increase or decrease their network
Post Condition	Friends are added or remoed in the
	Friends list

User Case Number:	2
Use case Name	Friends Management – Search Friends
Summary	Friends Management allows reader to
	search friends
Actor	Readers

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Trigger	5	Search Friend	l	
Precondition		Should alread	y have friends	
Scenario	F	Reader can se	earch friends with user id	
Post Condition	Friend div is disp		s displayed and filtered	
	b	ased on use	r input	

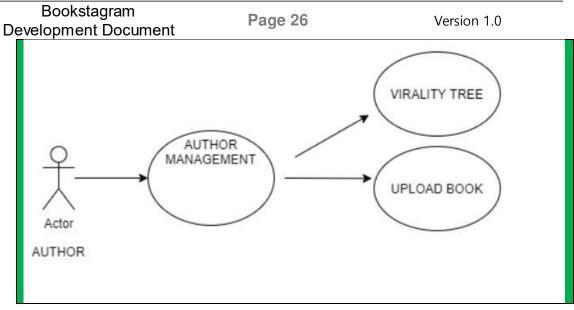
User Case Number:	2
Use case Name	Feed Management – Create post
Summary	Users can create post
Actor	Readers
Trigger	Create post
Precondition	Users should have read this book before
	posting
Scenario	User must give Book Name, Title and
	review for the book he/she has read
Post Condition	A post is added to news feed

User Case Number:	2
Use case Name	Feed Management – Like/Comment
	Post
Summary	Users can like or comment on the
	shared post
Actor	Readers
Trigger	Like or comment post
Precondition	User must be friends to like or comment
	on friends post.
Scenario	<ul> <li>User can like or comment on own</li> </ul>
	post
	<ul> <li>User can like or comment on</li> </ul>
	theor friends post
Post Condition	Like count is increased after user likes
	the post

## 3. Author Management:



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User Case Number:	3
Use case Name	Author Management – Upload book
Summary	Authors can upload soft copy of the
	book
Actor	Author
Trigger	Upload Book
Precondition	Registered as author
Scenario	Author can upload his softcopy with
	copyrights, book name, author name
	and cover picture
Post Condition	Book will be added to library

User Case Number:	3
Use case Name	Author Management – Virality Tree
Summary	Authors can view virality tree
Actor	Author
Trigger	Show virality tree
Precondition	Registered as author
Scenario	Author can view recommendation tree
	when every user buys the book
Post Condition	Recommendation tree expands when
	every user buys

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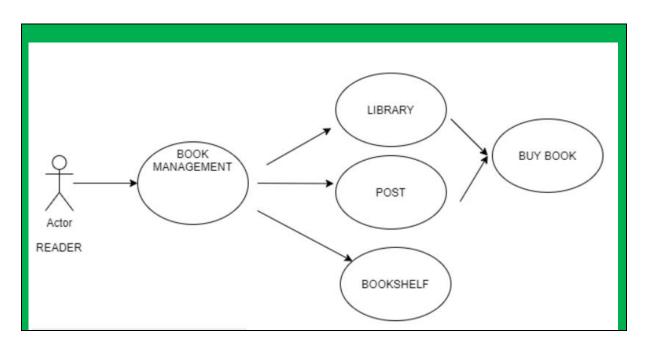
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## 4. Book Management:



User Case Number:	4
Use case Name	Book Management – Buy from Library
Summary	Library of Books are available where
	user can buy books from author
Actor	Reader
Trigger	Library
Precondition	Registered as Reader
Scenario	user buys the book from category of
	books available and is uploaded by the
	user
Post Condition	User can buy book from library and
	added to recommendation tree

User Case Number:	4
Use case Name	Book Management – Buy from post
Summary	Books can be bought from post of
	readers friends
Actor	Reader
Trigger	Library
Precondition	Registered as Reader



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rom post
buy book from post and added endation tree
)

User Case Number:	4
Use case Name	Book Management – Bookshelf
Summary	Once user buys the book, it is added to
	user's bookshelf
Actor	Reader
Trigger	Library
Precondition	Reader should have already bought a
	book
Scenario	After book buys book is added to
	bookshelf
Post Condition	Book is added to bookshelf once it is
	bought, read online is option is given all
	bought books



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## Non-Functional Requirements

### 1. Performance Requirements

- HIGH AVAILABILITY:
  - The solution is deployed in AWS S3
  - We have Backup for Backend Server serving Blue –Green Deployment which makes the application have less than 5 minutes downtime.
- HIGH LATENCY
  - Amazon CloudFront, the volume of application origin requests is automatically reduced.
  - Content is stored in CloudFront's edge and regional caches and only fetched from origins when needed.
- MONITORING AND AŬTOSCALING
  - Backend server is continuously monitored.
  - Step wise autoscaling for backend server which handle requests throttling with above 1000.
- 2. Safety Requirements
  - SQL injections attacks are handled by the application which makes the user account safe
  - Policies like GDPR and CAA are followed so that users information and copyrights are kept intact.
- 3. Security Requirements
  - The backend service is deployed in virtual private network of Azure which is not available to public and makes the application more secure.
  - User information and password is hashed while storing in backend.

## **DESIGN MODEL:**

Sequence model for both authors and readers are given below:



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Bookstagram Page 30 Version 1.0 **Development Document** 1: requestRecommendationTree() 1.1: requestTree() 2: requestNodes() 2.1: getNodes() 3: getRecommendationTree() 1.2: getTree() 3.1: requestUploadBook() 3.1.1: requestStoreBook() 4: storeBook() 4.1: success() 3.1.2: UploadSuccessResponse() 3.1.2: responseSuccess()

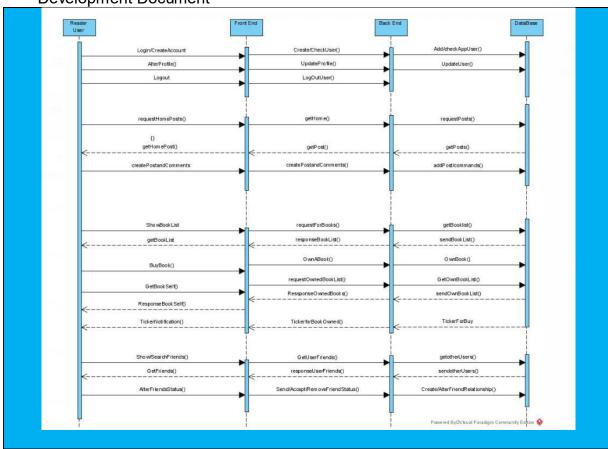


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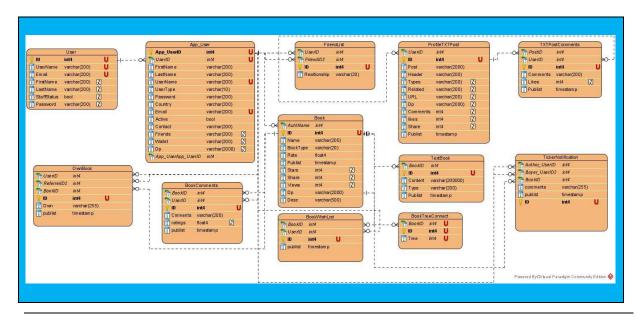
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## DB design model:





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## CODE DOCUMENTATION

#### Frontend Files:

Frontend is developed in React.js, HTML and CSS is used for styling. Frontend consist of the following folders and files.

- HTML Folder Consist of static html files used to create components in React.js.
- Public Folder Consists of default logo images and robots.txt file for security.
- SRC Folder consist of the main frontend code:
  - · Assets: Has the images, CSS, javascript and book PDF used in the UI.
- **Components**: components consist of commonly used React components by other unique components like header, sidebar and loader.
- **Http**: This folder has the routing information to the backend API using axios package.
  - Routes: This folder consists of major frontend routes for redirection and linking,
- **Store**: This folder is used to maintain the Redux code in React.js, it helps the code remember a state by storing as a local storage.
- Views: This folder consists of all the major unique frontend pages as react components and integrated with relevant API.
- Package.JSON is a file with all the package information and relevant versions.

## **Frontend Deployment:**

#### Ubuntu/ Linux

- Update the system sudo apt update
- Install Node and npm sudo apt install nodejs npm
- Check if the node version is 10.19 and npm is 6.13.0 nodejs –version npm -v
- Install all dependencies npm install
- Start the Code npm start

#### Windows



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• Use the following tutorial if you are using windows:

https://blog.theodo.com/2017/01/use-git-ssh-and-npm-on-windows-with-git-bash/

#### Backend

Following is the directory structure from the backend:

#### **Directory Tree Diagram**

https://github.com/sayeeshruthiwindsor/BookHUB/blob/main/Backend DirectoryInfo

Note: Backend is live and is not required to be deployed.

**Backend Deployment** 

### **Django Configuration**

- pip3 install Django
- pip3 install djangorestframework
- pip3 install djangorestframework-jsonapi
- pip3 install djongo
- pip3 install django-unixtimestampfield
- pip3 install django-fernet-fields==0.6
- pip3 install -r requirement.txt

## **Backend Server Configuration**

- hostnamectl set-hostname Bookstagram //creating Host name
- sudo vi /etc/hosts server-ip hostname // entering in hosts



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- sudo apt-get install ufw // uncomplecated firewall
- sudo ufw default allow outgoing
- sudo ufw allow 80 // Apache2 Hosted Post
- sudo ufw allow ssh
- sudo ufw enable
- sudo ufw status
- scp -r Bookstagram green@IP:/home/book/Bookstagram (cp local dir to server)
- sudo apt-get install python3-pip (pip3)
- sudo apt-get install python3-venv (virtual env)
- python3 -m venv venv (create venv)
- source venv/bin/activate (Activate)
- pip3 install django
- pip3 install djongo // Django to MongoDB helper
- install MongoDB Server --> https://docs.mongodb.com/manual/tutorial/install-mongodb-on-ubuntu/
- pip3 install wheel
- pip3 install -r require.txt
- pip3 install django-cors-headers // Django library to handle CORS headers
- python manage.py makemigrations (Migrate Django)
- python manage.py migrate



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- check code
- sudo apt-get install apache2
- sudo apt-get install libapache2-mod-wsgi-py3
- sudo vi book.conf (Apache conf File)
- sudo systemctl start apache2



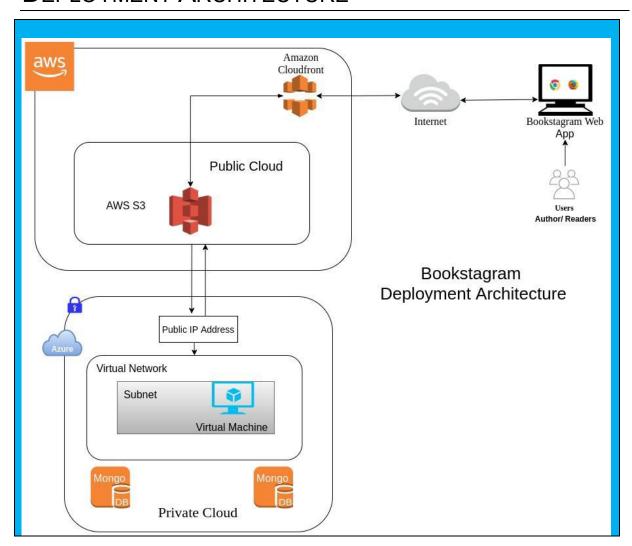
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## DEPLOYMENT ARCHITECTURE



- Users: We have two kind of users Authors and Readers on this platform.
- Bookstagram Web App: Web app is hosted on the internet and can be accessed using browsers like Chrome and Mozilla.
- Amazon CloudFront: Is the content delivery network that helps to deliver images, videos and other data faster to the end user.
- AWŠ S3: It is a static bucket where we have hosted our frontend build. It is in the Public Cloud to facilitate connection from any IP.
- Azure Virtual Machine: Bookstagram backend is hosted on Azure virtual machine with MongoDB as the database in the private cloud. This private cloud has been given the access from the frontend URL and default localhost URL to decrease any chance of attacks.



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# **TESTING SCENARIOS**

Test	Test	Test Cases	
Scenario	Scenario		
	Description		
1	Sign-In Page Functionality	Case-1. Verify system behavior when valid username and password is entered. Case-2. Verify system behavior when invalid username and valid password is entered. Case-3. Verify system behavior when valid username and invalid password is entered. Case-4. Verify system behavior when invalid username and invalid password is entered. Case-5. Verify system behavior when username and password are left blank and Sign in entered. Case-6. Verify Forgot Password is working as expected. Case-7. Verify system behavior when ""Remember Me" is Verified. Case-8. Verify Privacy Policy button is working as expected. Case-9. Verify Sign Up button is redirecting to Sign-Up page as expected.	
2	Sign-Up Page Functionality	Case-1. Verify that system generates a validation message when clicking on	



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	Create account button without filling all the fields. Case-2. Verify that system generates a validation message when entering existing username. Case-3. Verify that system generates a validation message when entering existing email id. Case-4. Verify that the validation of email field by entering incorrect email id. Case-5. Verify that the password is in encrypted form when entered. Case-6. Verify that the drop-down list occurs choosing type of option for user type. Case-7. Verify that the "I agree to the User Agreement and Privacy Policy" Verify box is unselected by default. Case-8. Verify Sign in button is redirecting to Sign-In page as expected.
Use	er Type -
	ader
3 Dashboard Page Functionality	Case-1. Verify that the Bookstagram title and symbol clearly without distortion.  Case-2. Verify that the Side-Menu Bar and symbols located on it clearly without distortion.  Case-3. Verify that the Welcome Message appears with the username on it clearly.  Case-4. Verify that the user profile photo on Top right corner is shown clearly.





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	review is added clearly.  Case-15. Verify that the user can add comments after writing in text box and clicking the "Submit" Button.  Case-16. Verify that the Buy Button works correctly.  Case-17. Verify that the Search Box on the top of page works correctly or not.  Case-18. Verify that the Moon and Bell icon on top right corner works fine or not.
4 User Profile Pare Functionality	Gase-1. Verify that the Bookstagram title and symbol clearly without distortion.  Case-2. Verify that the Side-Menu Bar and symbols located on it clearly without distortion.  Case-3. Verify that the Welcome Message appears with the username on it clearly.  Case-4. Verify that the Search Box on the top of page works correctly or not.  Case-5. Verify that the username is displayed correct or not.  Case-6. Verify that the email address is displayed correct or not.  Case-7. Verify that the first name is displayed correct or not.  Case-8. Verify that the last name is displayed correct or not.  Case-9. Verify that the country of residence is displayed correct or not.



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Development Document	Case-10. \ contact is or not. Case-11. \ wallet is disor not. Case-12. \ friends is dor not. Case-13. \ user type is correct or r Case-14. \ contact is dor not. Case-15. \ is redirecting page as ex Case-16. \ user profile right corneclearly. Case-17. \ Profile Phomenu and	/erify that the displayed correct /erify that the splayed correct /erify that the lisplayed correct /erify that the s displayed not. /erify that the displayed correct /erify Edit button ng to Settings spected. /erify that the ephoto on top r is shown
5 Settings Page Functionality	Bookstagra symbol cle distortion.  Case-2. Ve Side-Menu symbols lo clearly with Case-3. Ve Welcome Mappears with on it clearly Case-4. Ve Search Boopage works not.  Case-5. Ve textbox and	cated on it nout distortion. erify that the Message ith the username y. erify that the x on the top of s correctly or erify that the d placeholder of is displayed



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_	textbox ar new email displayed working por Case-7. We textbox ar first name correct an properly of Case-8. We textbox ar last name correct an properly of Case-9. We textbox ar country is and working por Case-10. Textbox ar contact not displayed working por Case-11. Textbox ar user type correct an properly of Case-12. The computer Case-13. Validation entering in Case-14. The password form where Case-15. The system get textbox ar necessary of the computer Case-15. The computer Case-15 are computer Case-15 are computer Case-15. The computer Case-15 are c	Verify that the address is correct and roperly or not. Verify that the address is displayed and working or not. Verify that the address is displayed and working or not. Verify that the address is displayed and working or not. Verify that the address is correct and roperly or Not. Verify that the address is correct and roperly or not. Verify that the address is correct and roperly or not. Verify that the address is correct and roperly or not. Verify that the address is displayed and working or not. Verify that the address is letting you come the image of on your or not. Verify that the of email field by accorrect email id. Verify that the is in encrypted



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Бечеюрі	TOTAL DOCUMENT	syster validat enterir Case- button saving reflect Page. Case- user p right c clearly Case- Profile menu are wo	n generates a tion message when ng existing email id. 17. Verify Save is successfully the changes and ting it on User Profile 18. Verify that the profile photo on top orner is shown
6	Side-Menu Bar Functionality	Books appea Case- icons icons icon not. Case- "Hous redired page, pages Case- "Book succes Books other page, "Open succes Book lother page, "Friend redired page, pages Case- "Case- "Friend redired page, pages Case-	3. Verify that clicking e" Icon successfully cts to Dashboard from any other  4. Verify that clicking Shelf" Icon ssfully redirects to shelf page, from any pages. 5. Verify that clicking Book" Icon ssfully redirects to List page, from any pages. 6. Verify that clicking ds" Icon successfully cts to My Friends from any other



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Developn	nent Document	
		redirects to Dashboard page, from any other pages.  Case-8. Verify that the "Bookstagram INC" message appears clearly
		on it or not.
7	Book-Shelf page Functionality	Case-1. Verify that the Bookstagram title and symbol clearly without distortion. Case-2. Verify that the
		Side-Menu Bar and symbols located on it clearly without distortion.  Case-3. Verify that the user profile photo on top right corner is shown
		clearly.  Case-4. Verify User Profile  Photo drop down menu  and it's all options are  working perfectly or not.  Case-5. Verify that the My  Bookshelf title is written
		properly.  Case-6. Verify that Books on shelf is moving when hovering with the cursor on it.  Case-7. Verify that by clicking on any Book, redirected to its pdf.
8	Book-List page Functionality	Case-1. Verify that the Bookstagram title and symbol clearly without distortion. Case-2. Verify that the Side-Menu Bar and symbols located on it clearly without distortion. Case-3. Verify that the user profile photo on top right corner is shown clearly. Case-4. Verify User Profile Photo drop down menu



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		work Ca Aud fine Ca List app Ca Aut app Ca and app with and Ca clice	d it's all options are rking perfectly or not. se-5. Verify that the dio Podcast is appearing e. se-6. Verify that the ten Before Purchase is bearing fine. se-7. Verify that the thor Screens is bearing fine. se-8. Verify that each d every Book is bearing correctly along in its cover, name, price d Add to cart option. se-9. Verify that on king on Book, users are lirected to its Book
9	Book-Description processing and proc	De Ca Book syr dist Ca Sid syr clear ca Photo and work Ca Ca Co work Ca but Ca revuse	se-1. Verify that the okstagram title and mbol clearly without tortion.  se-2. Verify that the e-Menu Bar and mbols located on it arly without distortion.  se-3. Verify that the er profile photo on top-nt corner is shown arly.  se-4. Verify User Profile oto drop down menu dit's all options are rking perfectly or not.  se-5. Verify that mment text box is rking fine.  se-6. Verify that Stars to box is working fine.  se-7. Verify that Submit ton is working fine.  se-8. Verify for each iew for the book the er can see the user offile photo, review and



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·	nent Document	the timesta review is a Case-9. Verside of the Button fun working fir Case-10. Versight side of Preview Beredirecting pages of the	amp of when the added clearly. Ferify on the right page Buy now actionality is the page Read autton is to the first few the book.
10	My-Friends page Functionality	Bookstagn symbol cle distortion.  Case-2. V Side-Menu symbols loc clearly with Case-3. V user profile right corneclearly.  Case-4. V Photo drop and it's all working per Case-5. V and every appearing with its procusername, country.  Case-6. V the Removis clicked i removes for Case-7. V the Accept clicked its friend into Case-8. V Search Friends into Case-8. V Searc	ceated on it hout distortion. Frierly that the ephoto on top er is shown  derify User Profile of down menu options are erfectly or not. Friend is correctly along offile photo, user type and derify that when the Eriend button the successfully riend from list. Friend button is successfully adds the list. Friends the friends to the alphabets



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11 Add-Friend's page



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		appear on it cl Case- User F clearly Case- Profile corner options Case- option menu I Profile Case- option menu I Setting Case- option menu I bring b Case- selecti option Case- after th from th could s Recon related respect Case- Moon a	4. Verify that the Profile photo is shown on top right corner. 5. Selecting User photo on Top right gives drop down list s. 6. Selecting Profile from the drop-down redirects to the User page. 7. Selecting Settings from the drop-down redirects to the gs page. 8. Selecting Log out from the drop-down logs the user out and back to Sign In page. 9. Verifying the book ng drop-down menu is working perfectly. 10. Verifying that the book is selected the option, author see the immendation Tree of to the Book
1	3 Side-Menu B Functionality	ar Case-Books' appear Case-icons a or not. Case-Thouse redirect page, 1 pages.	<b>3</b> . Verify that clicking e" lcon successfully cts to Dashboard from any other



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Σονοιομι	TOTAL DOGGINGTIC	Upload Bo any other   Case-5. Ve "Power" Ic redirects to page, from pages. Case-6. Ve "Bookstag	Illy redirects to look page, from pages. erify that clicking on successfully o Dashboard on any other erify that the ram INC" appears clearly
14	Upload Page Functionality	Case-1. Volume Bookstagra symbol cle distortion. Case-2. Volume Symbols local clearly with Case-3. Volume Profile right cornectearly. Case-4. Volume Photo drop and it's all working per Case-5. Volume Case-6. Volume Case-6. Volume Properly of Case-7. Volume Properly of Case-7. Volume Properly of Case-8. Volume Properl	erify that the am title and early without  erify that the au Bar and ocated on it hout distortion. The erify that the exphoto on top er is shown  erify User Profile to down menu options are erfectly or not. erify that the exploration of a displayed displayed displayed displaceholder of address is correct and roperly or not. erify that the exploration of a displayed displaceholder of a displayed displaceholder of a displayed displaceholder of a displayed displaye



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