

Report

Course Code: CSE202

Course Name: Fundamentals of Database Management System

Work in progress Document

Team Name: db45

Team Members

- Dhruv Diwan: 2018031
- Hardik Saini: 2018391
- Ishan Sharma: 2018043
- Nikhil Yadav: 2018298
- Sonali Supriya: 2018318

Idea

We have built an app to facilitate purchase of books that publishers bring to us for further retail.

The app caters to 5 stakeholders :

- Book Purchasers / Readers
- Publication Houses
- Books Authors
- Company manager / Auditor
- Book Stock/Warehouse maintainer

<https://drive.google.com/file/d/1k09HXmjKZrS7IT4e1AmWkFEfusr6NI7b/view?usp=sharing>



- Java
- JavaFX
- Java-MailX
- IDE
- Font-Awesome
- JFoenix
- JDBC-Driver

Study of previous work

We took ideas from existing platforms similar to ours, in order to finalize the functionality and interface of our app. Some of them were:

Good Reads

Flipkart

Paytm

The user functionality

1. Providing separate views for different stakeholders treating them as different types of “users” of the system
2. Enabling the publisher to upload and put up for sale new books.
3. Providing a bookwise, informative track of the warehouse to the stock manager
4. Providing a week wise sorted report/summary in a presentable manner to the platform company owner.
5. Allowing the end-user to buy books via the platform and search our depository using an “advanced search” option which shall allow search on basis of:
 - Name
 - Author’s name
 - Language
 - Year of Publication
 - Price
 - Nationality of Author

Also, these parameters support partial substring search, i.e.

User can search in for some parameter even if they don’t remember whole word.

Example: if there exists a book name Alchemist, Allen And if the user searches for “al”, then both of these books will pop up in results.

6. Providing users an easy way to purchase, by putting an amount into their store wallet. They can also make transfers to other accounts safely by entering their (store provided) card number.

Data Curation

We used a few data generation websites to gather data relevant to our purpose in CSV form.

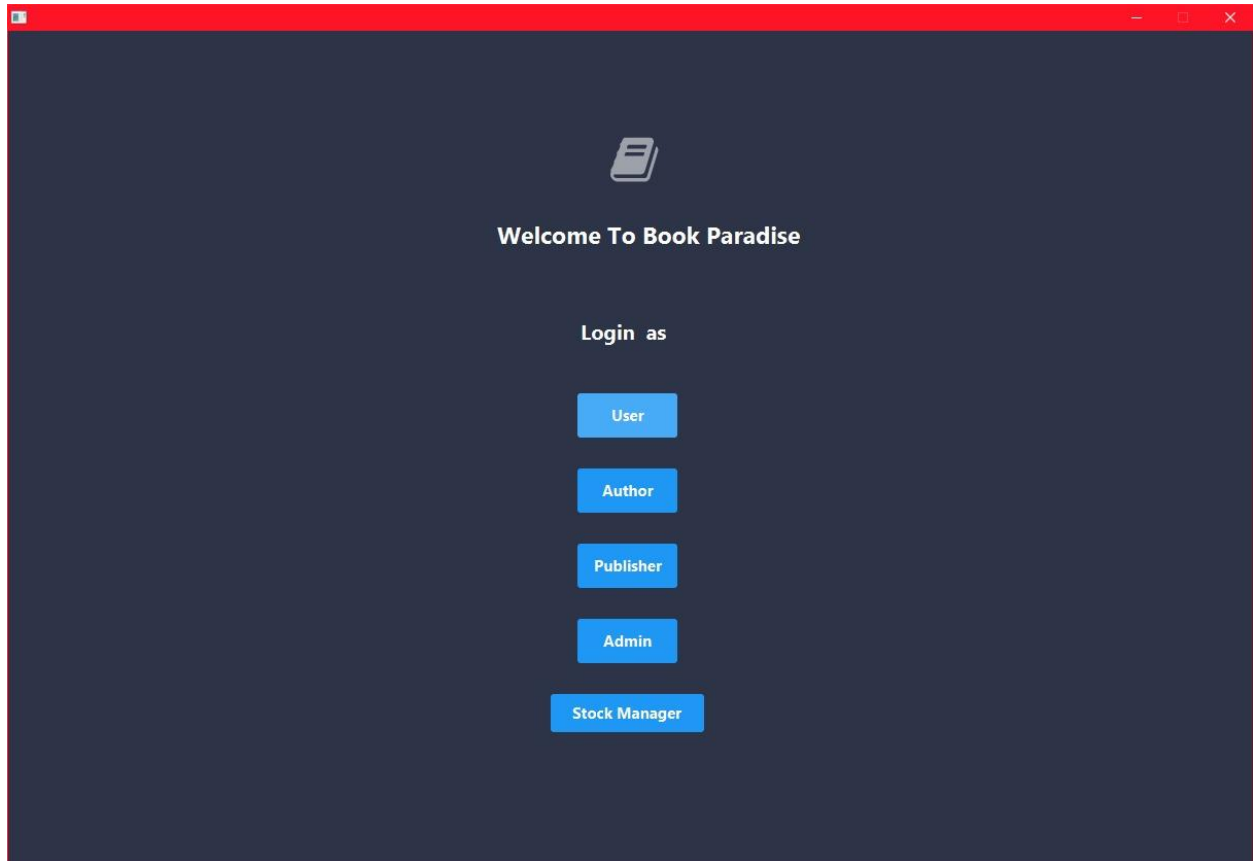
Then we used these CSV's to populate the databases using scripts to generate SQL commands.


Specifically, we used www.generatedata.com and www.mockaroo.com .


Bonus Attempt

- **Interface:** A GUI Interface allowing easy navigation to the user
- **Search:**
 - Dynamic Search: The search result are displayed dynamically while the user enters his query, like in the google search bar
 - Advance search option allowing user to perform complex queries
- **User login session**, so that the user does not have to enter his username and password every time he uses the app.
- **Password Retrieval** via mail: In case a user forgets their password, they get a mail for the same from books.paradise45@gmail.com .
- **Pie Chart based representation** of store's weekly financial and warehouse data for an intuitive view.
- **Password encryption:** Password of higher privilege users viz. admin and stock manager are sha encrypted, as in the case of actual stores.


Snapshots of GUI and future scope.







hardik18391




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Create Account

Login

Forgot Password?

Main Page



Welcome, Manager

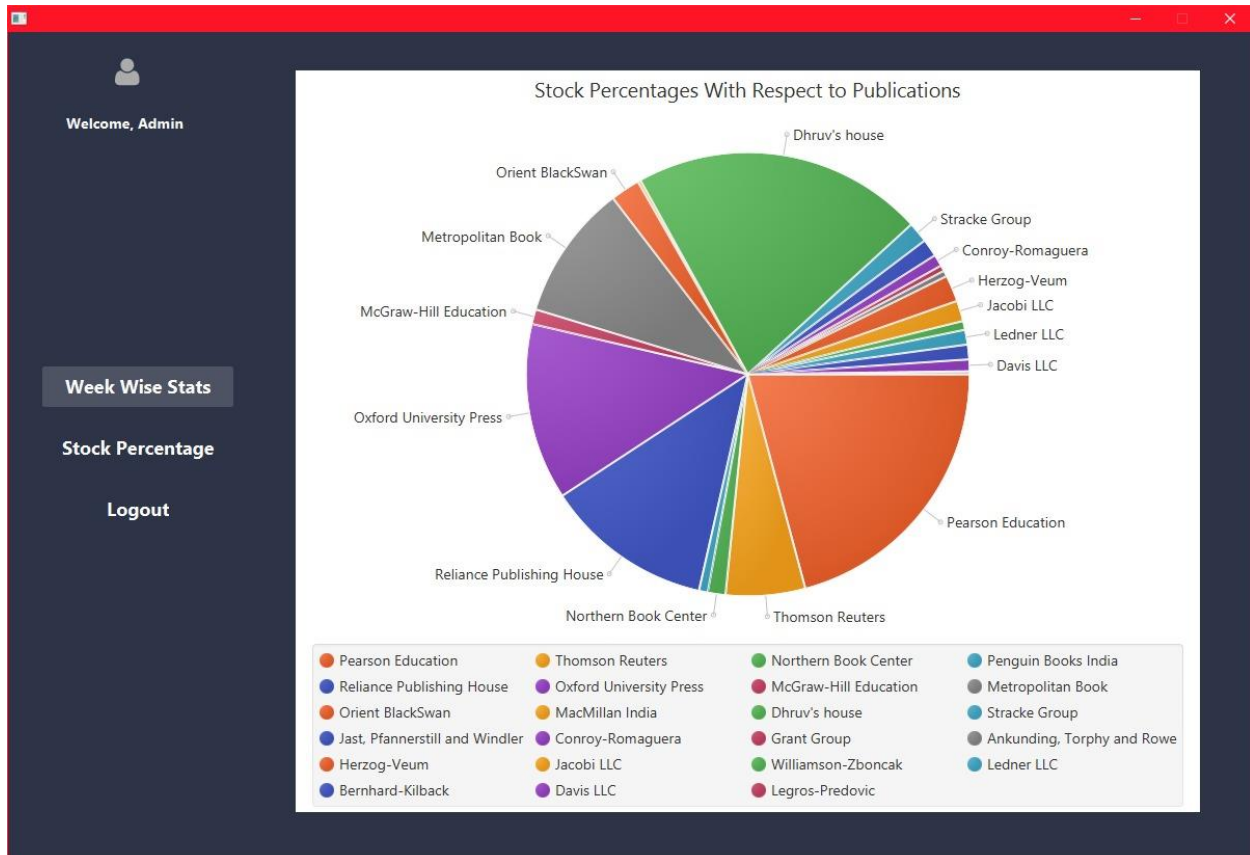
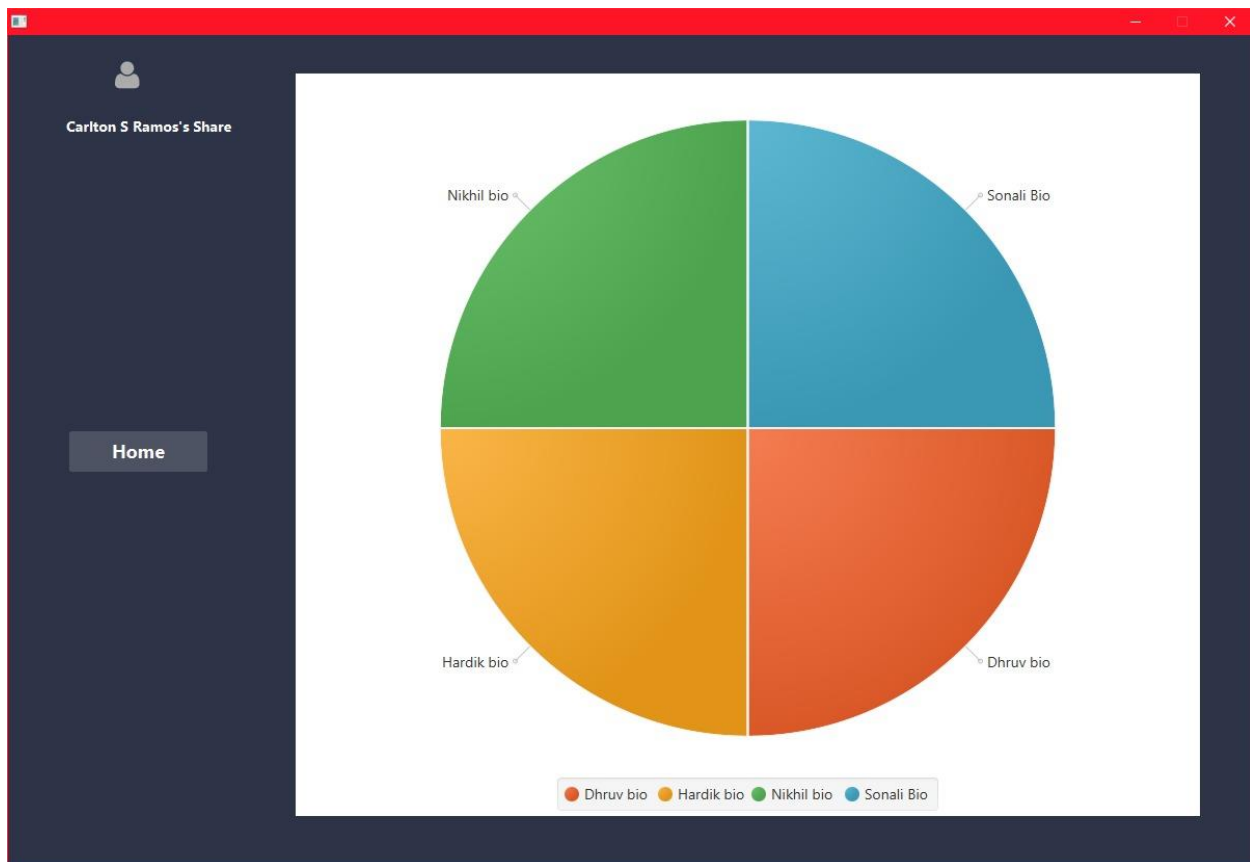
Get All Books With Quantity Lese Than:

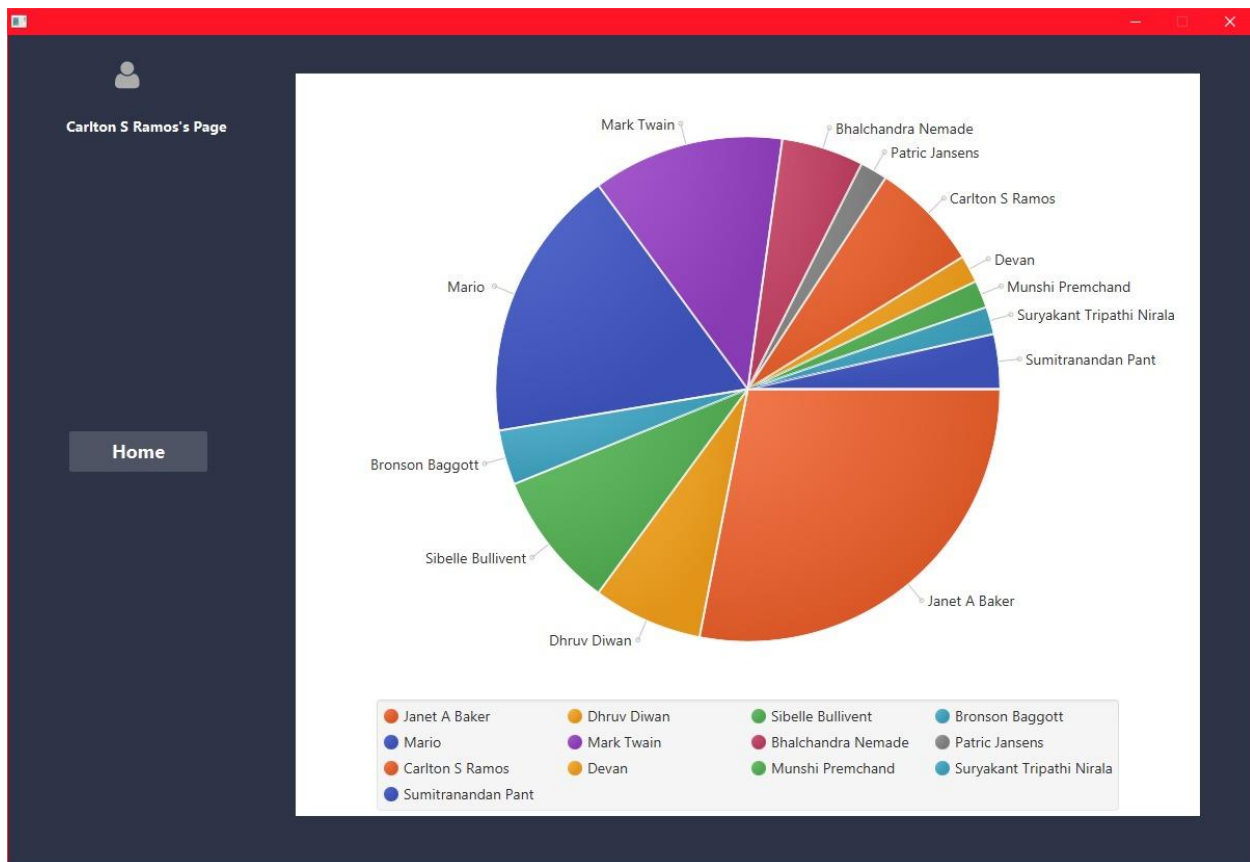
Get

#	Name	Author	Year	Genre	No
26	Dhruv bio	Carlton S Ramos	2020	Bios,	
27	Hardik bio	Carlton S Ramos	2020	Bios,	
29	Nikhil bio	Carlton S Ramos	2020	Bios,	
30	Sonali Bio	Carlton S Ramos	2020	Bios,	
51	Hardik New Bio	Carlton S Ramos	2010	Bios,New Genre,	
1	You are not so smart	Janet A Baker	2014	Self-help,Humour,	
7	The monk who sold his ferrari	Janet A Baker	2001	Adventure,Self-help,Development,Motivational,Guide/How-to,	
8	General Physics	Janet A Baker	1978	Textbook,	
14	To Kill a mocking Bird	Janet A Baker	1953	Cooking,History,Humour,	
15	1984	Janet A Baker	1946	History,	
17	Sherlock Holmes	Janet A Baker	1977	Contemporary,	
18	Harry Potter and The Sorcerer's Stone	Janet A Baker	2014	Horror,	
34	How to make teaa	Janet A Baker	2019	Cooking,Art,	
5	Concepts of Physics Part 1	Mario	2005	Textbook,	
11	The Hobbit	Marianne N Brown	1997	Guide/How-to,	
6	Concepts of Physics Part 2	Mark Twain	2005	Textbook,	
9	One Indian Girl	Mark Twain	2014	Adventure,Romance,Contemporary,	
24	Edison A Biography	Mark Twain	2016	Romance,	
12	The Three Muskeeteers	Mark Twain	2007	Development,	
19	The Game of Thrones	Mark Twain	2017	Motivational,	
2	Alchemist	Dhruv Diwan	2002	Fantasy,Adventure,Thriller,	

View Current Stocks

Logout





Hi, hardik18391

Home

This is your Username which is visible to others as well, it is unique to every user

hardik18391

Change

This is your Password Which is needed when you want to login

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Show Password

Change

This is your email Address, if you forgot your Password the confirmation is sent to this address

hardik18391@iiitd.ac.in

Change

Order details are sent to this number

1234567890

Change

Change