

**Minor Project Synopsis**

**Online Book Market (BookletDoor)**

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## **1. PROBLEM DEFINITION AND SCOPE OF PROJECT**

## 1.1 Purpose

Building an **online book selling website** provides an alternative means of e-commerce for selling academic books and vulnerable books for the students and it also help them to interact with another students. The system also comes with a great benefit which is that it also provides a description of books and also the uploading and purchasing book with a single click on the button. It also provides the user to communicate with seller/senior of their own as well as other college students about the books through message (**chat box**).

The objective is to develop a fully functional online book selling and purchasing website to allow students to sell and buy books and obtain the full utilization of the books. To further make the system complete an enquiry system is put into place to determine if a buyer or up loader wants to interact with the user and providing the confirmation regarding the book to be purchased or uploaded.

Students can upload their notes to the website so it will help to another student.

## 1.2 Objective

- To search book efficiently.
- Processing a large amount of data effectively and efficiently.
- To provide better service.
- It keeps database of book details, price, sales record and customer record.
- Provide access to study materials & books via Local Library.

## 1.3 Project Scope

In today's era Internet is the first place where the majority of shoppers go to find information about products. According to a retailer study done by Forbes Insights and Synchrony Financial, 82% of customers conduct the majority of their research online.

Especially for the books a website is one of your most powerful online marketing tools because it allows you to take full advantage of the internet, which leads to meet the requirements.

Here we are trying to develop such type system which provides the flexibility of any type of the book. That means a website which has the type system which provides the facility to the users of the website to purchase and sell the books via website without any complexity. For example, any user wants to purchase any book from the website than first of all user has to choose the stream of the book than he/she can see the more than one type of books there and then he/she can choose the specific book from there. And then purchase it by paying price on BookletDoor cash counter and receives its invoice.

## 1.4 Technologies To be used(Front end & Back end)

### 1. Front-end (client-side) technologies.

Front-end technologies are for the "client side" of your website or application. They're used to develop the interactive components of your website, and produce the elements that users see and interact with. This includes text colours and styles, images, buttons, and navigation menus.

- **HTML:-** HTML stands for Hyper Text Markup Language. It's one of the fundamental technologies required for web development. It provides the base structure for a web page. HTML code ensures that all the content on a website is properly formatted. This is so your Internet browser can display the content as intended. Without HTML, a browser couldn't display text or load images and other elements.
- **CSS: -** Cascading Style Sheets, abbreviated as CSS, define the style and aesthetics of a web page. While HTML is used to structure a web page, CSS specifies the appearance of that structure. This includes page layouts, colors, fonts and element positioning. If HTML

is the bones of the web page, CSS is the skin. It makes the Internet, and your website, look good.

- **JavaScript:** - JavaScript is the most used language by startups for a few reasons. It can be used as both a front-end and back-end programming language. Compared to other languages, JavaScript is comparatively easy-to-learn (although all languages come with some difficulties), and it's used everywhere in custom web application development. It's also constantly being updated and expanded with new features.

## 2. Back-end (server-side) technologies.

Back-end technologies are for the “server side” of your website or application. They're for developing the technical foundation. They store and arrange data and make sure everything on the front-end works. For example, when a user provides login credentials to a social media application, back-end technologies are used to check if those credentials are accurate. Once the credentials are verified, the server will send back the profile name, picture, and other associated information.

Back-end technologies are also used to streamline core business processes. In cases where you have lots of data that needs to be processed, you could run a script in the back-end to generate a meaningful report on the front-end.

- **Node.js:** - Node.js is a runtime that allows you to write server-side code using JavaScript. Because of JavaScript's popularity, Node.js is widely used and there are lots of well-versed developers working with Node.js. It's often used for real-time web applications. Node.js makes developing simple applications and prototypes fast and efficient. However, it's not ideal for CPU-intensive tasks.

## 3. Libraries

Libraries are collections of files, programs, routines, scripts or functions that can be integrated when writing code. Libraries work by grouping snippets of code together to enable functionality so you don't have to write the code yourself. Like frameworks, they mitigate the risk of improper coding, make the development process more efficient, and save you money.

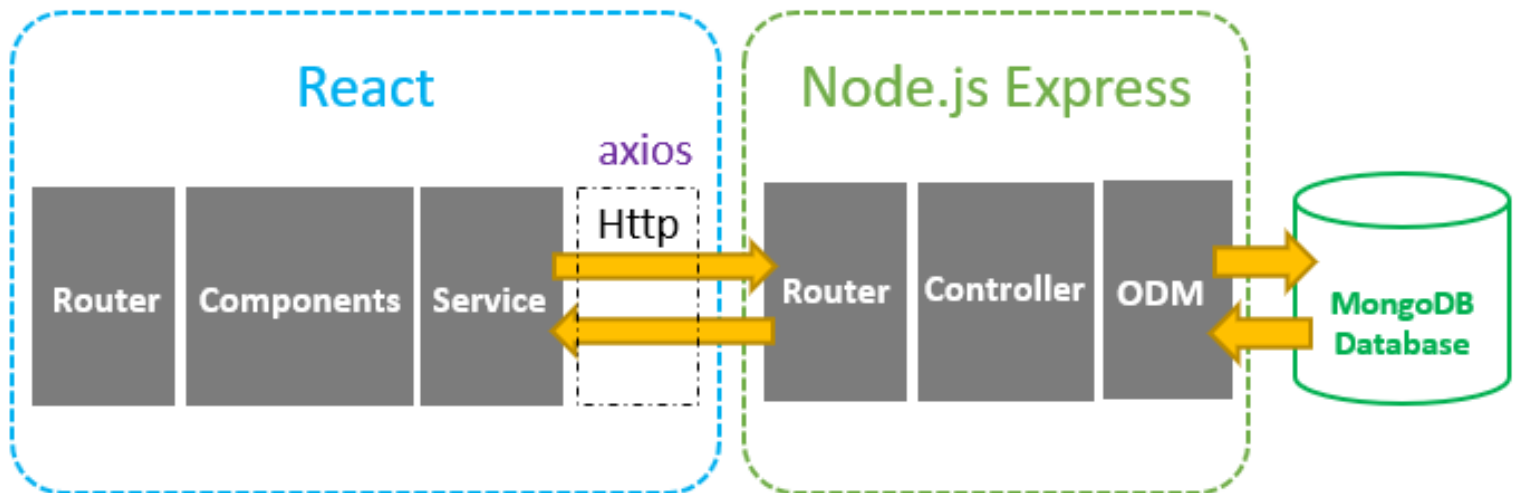
However, libraries are different than frameworks. A framework defines and structures your build. Libraries are resources you can freely integrate into a build of your own structure and design. They're often used for more specific functions or features while a framework is a more complete development tool.

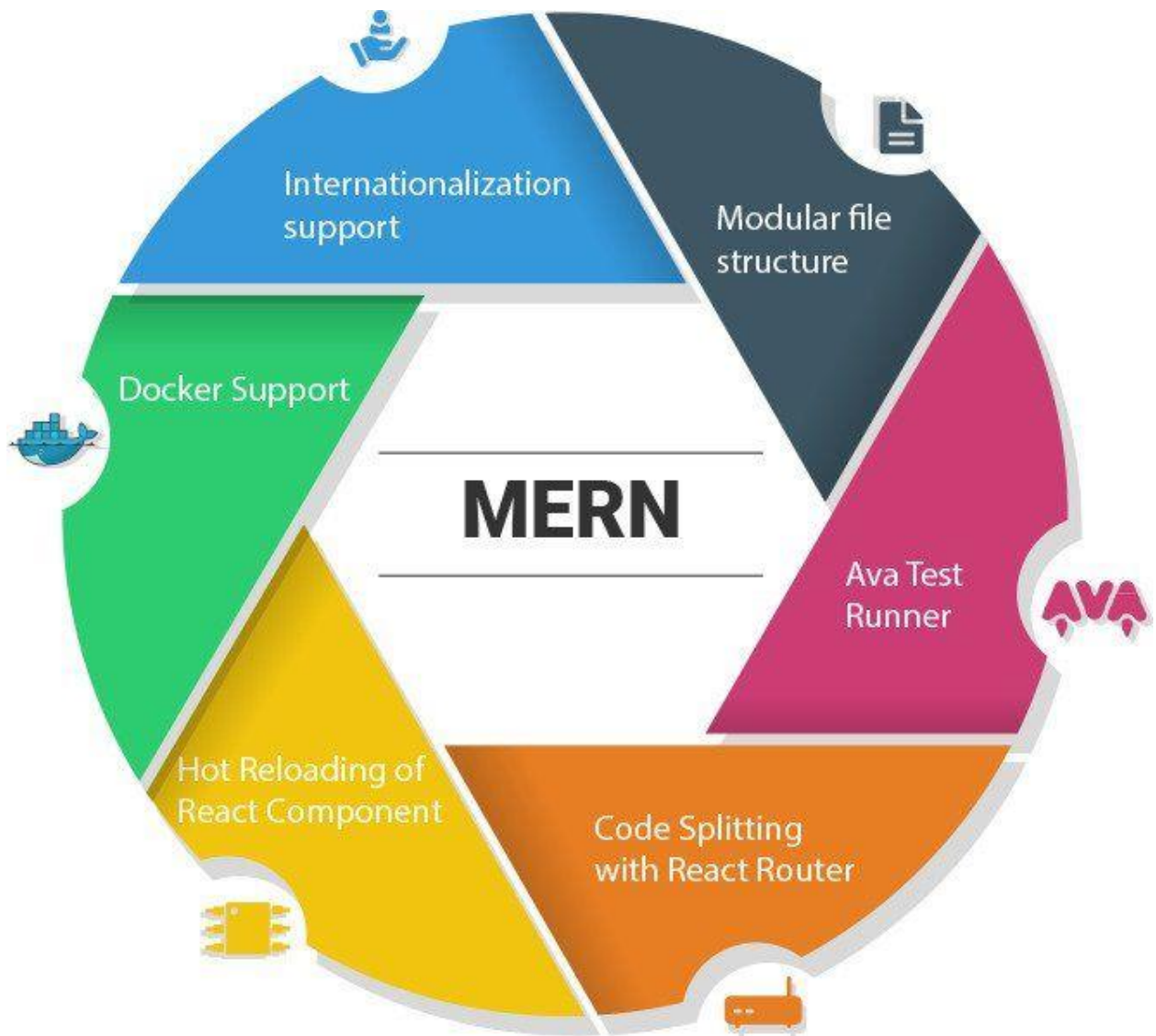
- **React.js:** - React.js, backed by Facebook, is one of the most popular front-end libraries. There's a somewhat long and complex learning curve associated with using React.js, but it's exceptional at creating great looking user interfaces (UI). It's also always changing and being updated for improvements and maintenance.

#### 4. Databases

Databases are where all your data is stored. However, they aren't just haphazard digital filing cabinets. They provide a consistent, organized structure for storing and retrieving large amounts of data.

- **MongoDB:** - An open source. NoSQL database. NoSQL databases don't use structured query language (hence the name) so data can be stored in many ways. This means that you can store data without first defining its structure. Also, a NoSQL database enables all your stored data to have its own unique structure without being defined by the database's structure itself.







## **2.LITERATURE SURVEY**

## **2.1 Existing System**

Existing system is a manual one in which users is maintaining books to sell and buy above mention. It is very difficult to manage the transaction and order of the books. Together it doesn't allow the user to interact with the other user. It is very difficult to maintain the historical data. The whole process of transaction and ordering of the book. The order of books is totally dependent on the seller and customer. The site manager is not responsible for the transaction.

The order of books can easily be done in this site.

### **DISADVANTAGES OF THE CURRENT SYSTEM: -**

- The user cannot interact with the other user
- A lot of correction work hence delay in giving the results
- A lot of uploading server problem
- It's very time consuming
- Modification was not possible
- The chances of loss of the order
- No enquiry facility
- Filtering is not easy
- Re-viewing becomes more time consuming

## **2.2 Proposed System**

This system is used for online advertising the books for sale and purchase. The user can upload the pictures of book along with the price and little description. The chat box system will be added to this system.

User can also upload their notes through our website which benefits in increase the probability of selling book or to increase the reach of that User.

This system provides the administrator with full-fledged facility of removing abusive books or malicious users. It provides the administrator to add books, remove and contact the user who have registered to the site. It takes care of authentication of the administrator, user and guest user.

## 2.3 Feasibility Study

### INTRODUCTION: -

The main objective of the feasibility study is to test the technical, operational and Economical feasibility for adding new modules and debugging old running system. All system is feasible if there are unlimited resources of infinite time. There are three types of feasibility: -

- Operational feasibility
- Technical feasibility
- Economic feasibility

### TECHNICAL FEASIBILITY: -

- The technical feasibility study basically centers on alternatives for software and design approach to determine the functional aspects of system.
- This project on Online Book Buy and Sell will be platform independent since it is being coded in Node.js language (using ReactJS, JavaScript and CSS). HTML is used to create web pages.
- MongoDB database will be used for storing data.
- Hardware requirements are compatible with all Operating System. Only authorized person will be able to use the website so it would be secure. The system can also be expanded as per the needs of requirement specification.
- Technical feasibility is concerned with specifying equipment and software that will meets the equipment and goals
- The analyst must find out whether current technical resource can be upgraded or
- Added to in manner that fulfils the request under consideration.
- The system must be evaluated from the technical point of view first.
- The assessment of this feasibility must be based on an outline design of the system
- Requirement in the terms of input, output, programs and procedures.

## **OPERATIONAL FEASIBILITY: -**

Operational Feasibility is a measure of how people are able to work with system. This type of feasibility demands if the system will work when developed and installed. Some of the important issues raised during operational feasibility are that

- Will the system be used and work properly if it is being developed and implemented?
- Is there sufficient support for the management from the user?
- Since the website is very user friendly so users will find it comfortable to work on this site.

## **ECONOMIC FEASIBILITY: -**

A system can be developed technically and that will be if installed it must still be a good investment for the organization.

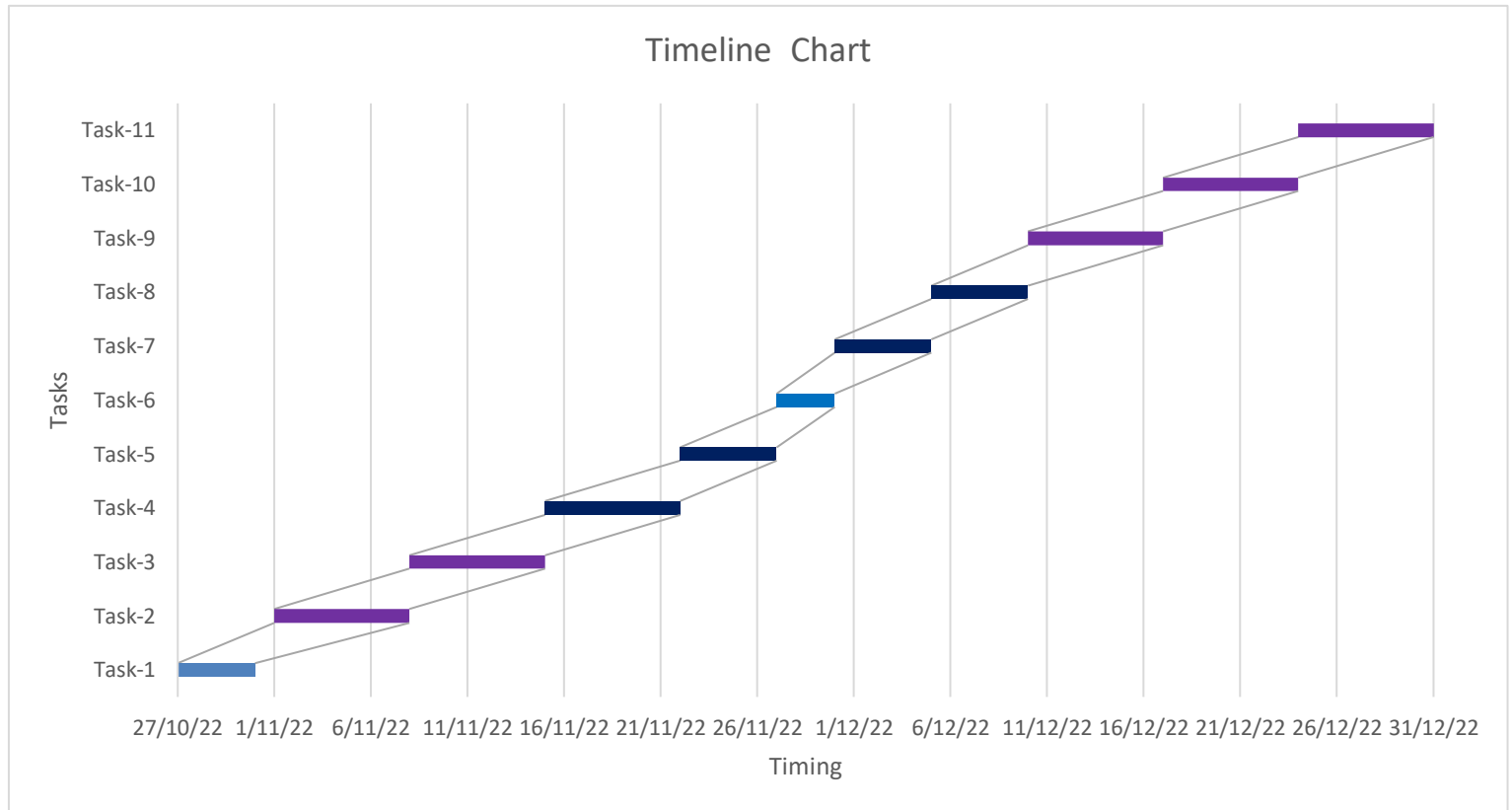
Financial benefits must equal or exceed the costs. It is the most frequently used evaluating the effectiveness of proposed system, more commonly known as Benefit analysis.

Benefit analysis is to determine benefits and savings which are expected from candidate system and compare them with cost. If the benefits are more than the cost, the decision is made to design and implement the system.

The cost and benefits may be direct or indirect and tangible or intangible.

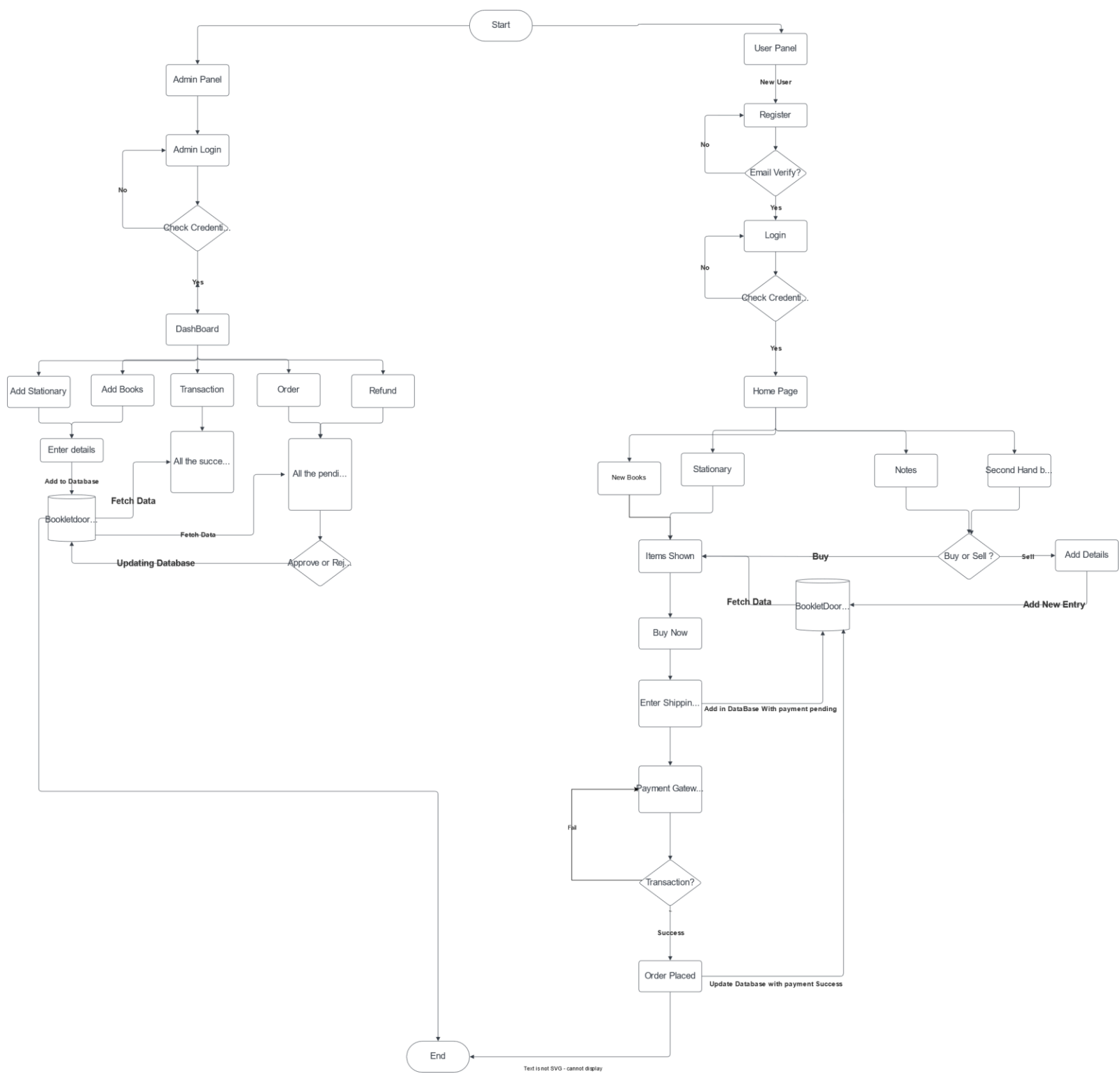
### **3. METHODOLOGY/PLANNING OF PROJECT**

### 3.1 Timeline/Gant Chart

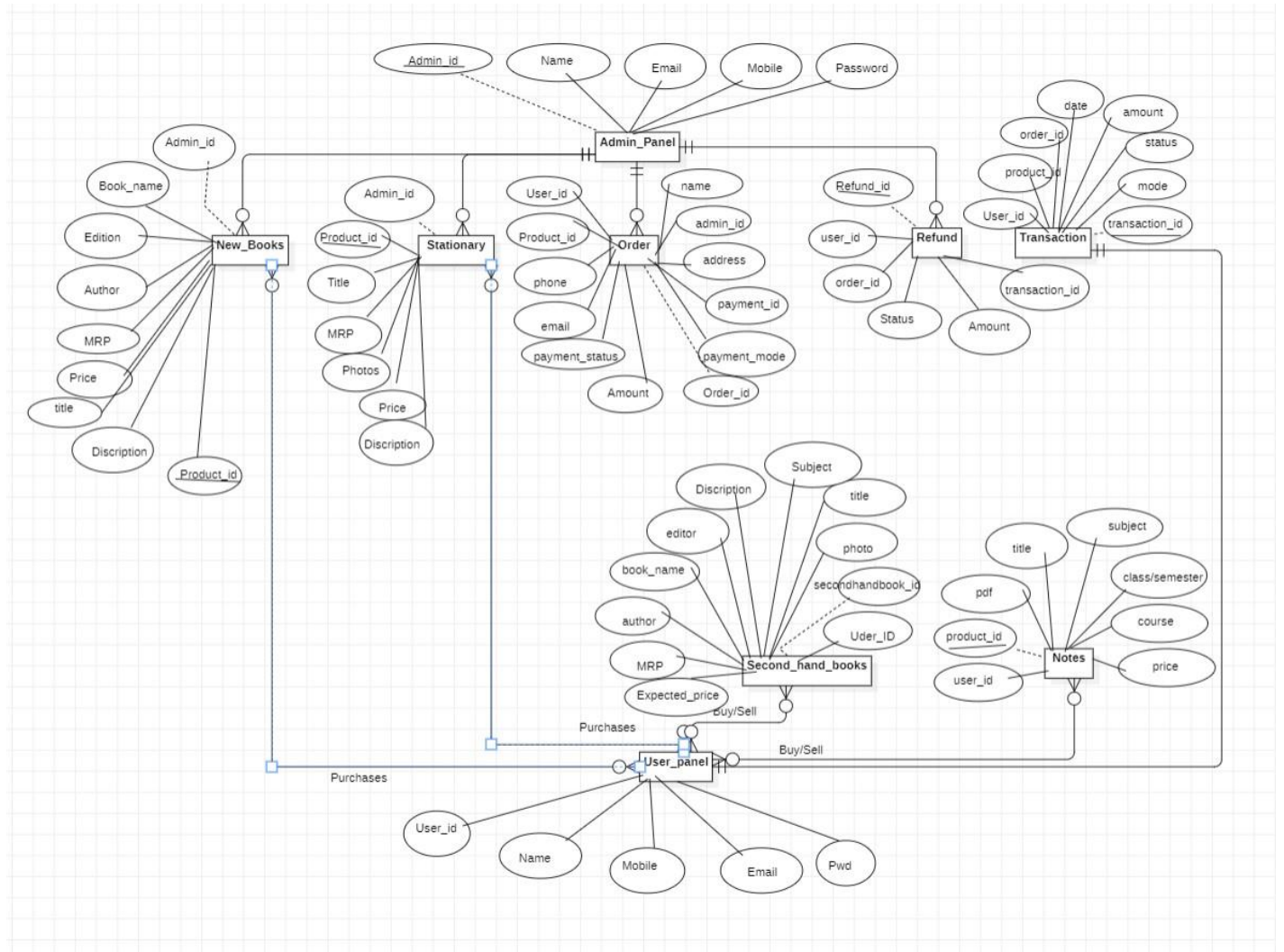


Task	Discription	Start	End	color	Days of com
Task-1	Task-1: Synopsis	27-10-2022	31-10-2022	Blue	4
Task-2	Task-2: Website UI	01-11-2022	07-11-2022	Purple	7
Task-3	Task-3: Phase-1: User Panel Login/Register page include account	08-11-2022	14-11-2022	Purple	7
Task-4	Task-2: Phase-2: Admin Panel Login/Register page	15-11-2022	21-11-2022	Dark Blue	7
Task-5	Task-5: Phase:3: Create Add stationary and add books in admin panel	22-11-2022	26-11-2022	Dark Blue	5
Task-6	Task-6: Phase:4: Create New Books and stationary page	27-11-2022	29-11-2022	Blue	3
Task-7	Task-7: Phase:5: Create Second hand books and Notes page	30-11-2022	04-12-2022	Dark Blue	5
Task-8	Task-8: Phase:7: Create Payment process	05-12-2022	09-12-2022	Dark Blue	5
Task-9	Task-9: Phase:8: Create transaction, Order, Refund of admin panel	10-12-2022	16-12-2022	Purple	7
Task-10	Task-10: Phase:9: Testing by Team Member	17-12-2022	23-12-2022	Purple	7
Task-11	Task-11: Phase:10: Testing by Others	24-12-2022	31-12-2022	Purple	7

### 3.2 Process Flow Chart

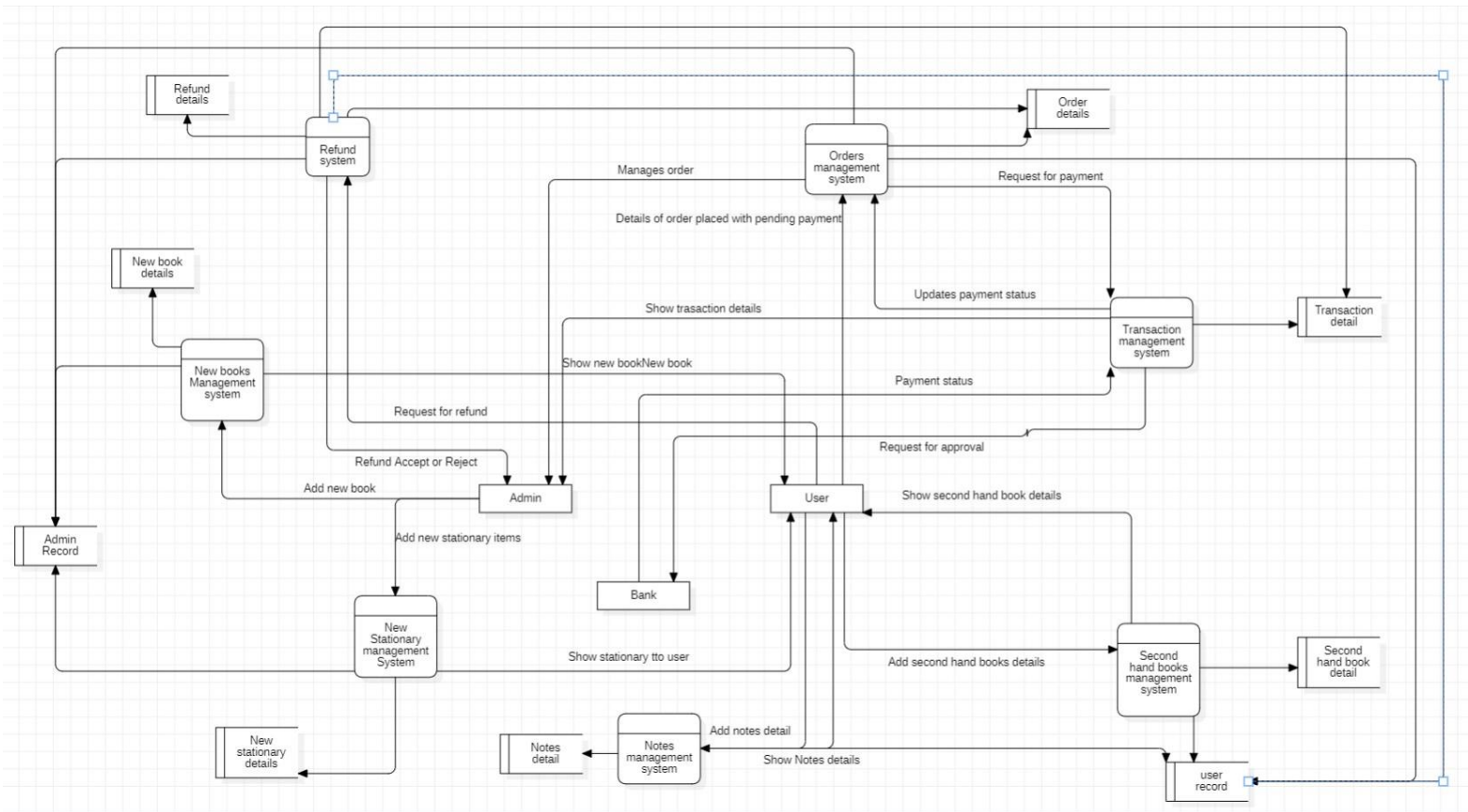


### 3.3 ER Diagram





### 3.4 Data Flow Diagram



#### **4. Future Enhancement (Work to be done in 8<sup>th</sup> Sem)**

## **Future Enhancement: -**

- For checking the condition of book: - User has to show the book to the camera  
Where Machine Learning check the condition of the book and give rating to the book by which our software decide the price of the book.
- Customization: - Also we will add the Customized book option for the user
- Collaboration With Shopkeepers for extending the stock and variety of Books.
- Android Application: - After Developing customer relationship with Our website  
We will Take our website to next level by creating Android Application.

## **5. Bibliography**

## **Tools to be used: -**

React.js Documentation: - <https://reactjs.org/docs/hello-world.html>

Node.js: - <https://nodejs.org/en/>

IDE: - <https://code.visualstudio.com/docs>

MongoDB: - <https://www.mongodb.com/docs/>

## **Software used for Methodology: -**

Timeline/ Gant Chart: - Excel

Flowchart: - <https://www.lucidchart.com/pages/>

ER-Diagram: - <https://docs.staruml.io/>

Dataflow Diagram: - <https://docs.staruml.io/>

## **References: -**

- [https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.bezkoder.com%2Freact-node-express-mongodb-mern-stack%2F&psig=AOvVaw0C4F\\_7FkIJRp281\\_9rnIKc&ust=1667227601839000&source=images&cd=vfe&ved=0CA0QjRxqFwoTCJCI5\\_mYiPsCFQAAAAAdAAAAABAD](https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.bezkoder.com%2Freact-node-express-mongodb-mern-stack%2F&psig=AOvVaw0C4F_7FkIJRp281_9rnIKc&ust=1667227601839000&source=images&cd=vfe&ved=0CA0QjRxqFwoTCJCI5_mYiPsCFQAAAAAdAAAAABAD)
- <https://www.google.com/url?sa=i&url=https%3A%2F%2Fwww.synergisticit.com%2Fmern-stack-training-bay-area-ca%2F&psig=AOvVaw0vViL7cR2If0AJrRCoa7lQ&ust=1667230814552000&source=images&cd=vfe&ved=0CA0QjRxqFwoTCIiAsPWkiPsCFQAAAAAdAAAAABAD>
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- <https://www.aer.io/blog-article/the-importance-of-a-website-to-sell-and-market-books>
- [https://www.slideshare.net/SaloniBajaj3/book-selling-website-report?from\\_action=save](https://www.slideshare.net/SaloniBajaj3/book-selling-website-report?from_action=save)

