

Project Report On Next Gen Medicare



Submitted in partial fulfillment for the award of
**Diploma in Advance Computing(E-DAC) from
C-DAC, C-DAC(Hyderabad)**



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ACKNOWLEDGEMENT

This project “**Next Gen Medicare**” was a great learning experience for us and we are submitting this work to Advanced Computing Training School (CDAC Hyderabad).

We are very glad to mention the name of *Ms. Sushmit Meena* for her valuable guidance to work on this project. Her guidance and support helped me to overcome various obstacles and intricacies during the course of project work.

Our heartfelt thanks goes to Mr. Sharan (Course Coordinator, C-DAC) who gave all the required support and kind coordination to provide all the necessities and extra hours to complete the project and throughout the course up to the last day here in C-DAC Hyderabad.

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TABLE OF CONTENTS

1. Introduction of Project
2. Product Overview and Summary
 - 2.1 Purpose
 - 2.2 Scope
 - 2.3 Overview
 - 2.4 Feasibility Study
3. Overall Description
 - 3.1 Product Feature
 - 3.2 Technology Used
 - 3.3 User Classes
 - 3.3 General Constraints
4. Requirement
 - 4.1 Functional Requirements
 - 4.2 User Interface Requirements
5. Database
 - 5.1 Database Info
6. Test Report
7. Project Management Methodology
8. Future Scope



1. Introduction of Project:

We have created an e-Commerce website where the user can buy different types of Medicines.

The platform displays and provides various numbers of medicines to purchase for end users. User Interface, developed in React uses user email to authenticate and data is imported using MERN. UI makes secure calls to Nodejs. In the backend, Nodejs is used to fetch and manipulate the data and used MongoDB as database.

The Next Gen Medicare is an application that allows users to buy various types of medicines. Next Gen Medicare provides facilities for adding, deleting, updating products and also user can sort the product list on price based criteria. Next Gen Medicare also allows users to see their order details in my order section. It can be used as the fully developed e-commerce website.

For all this a lot of API's is used for the ease of user. API allows two applications to talk to each other and then the application interprets that data and presents the user with the information the user wanted in a readable way.

For the login of users into this website we use the user email authentication, which allows users to sign up with their email. This platform is based on MERN stack and it tends to independency of all services. This platform is rapid and frequent due to this technique.



2. Product Overview and Summary

2.1 Purpose:

We need an e-Commerce website where user can buy different types of medicines. We are providing all types of medicines to the customer and also providing user friendly UI to the customer which will help in maintaining the relationship of customer with the company.

2.2 Scope:

Next Gen Medicare is a platform where customer can explore types of medicines and can buy any of them according to their preferences.

2.3 Overview:

Section 3.0, the Overall Description, provides an overview of the components and the relationship between them. Section 4.0 provides the Specific Requirements of the product. In the subsection (4.1) and (4.2) of which the various functional requirements and various interface respectively are discussed. Section 5.0 describes Database Design details.

2.4 Feasibility Study

Feasibility is determination of whether a projects worth doing or not. Before actually recommending the new system it is important to investigate if it is feasible to develop the new system.

Before developing and implementing a system we have sure that our system is feasible in the following ways:

1. Technical Feasibility.

2. Operational Feasibility.



- **Technical Feasibility:**

In the type of feasibility study, the system analyst has to check whether it is possible or not to develop the requested system with availability of manpower, software, hardware, etc. The system which we run in Linux as well as windows platform and hence are suitable for the end-user. The system is technically feasible because it does not require too many resources and runs with the browser. A proof of concept was implemented to verify the technical feasibility to retrieve data from various APIs.

- **Operational Feasibility:**

In this type of feasibility study the operation implementation of the system is considered. Checking is done regarding whether it is feasible for the users to use the application. Thus the proposed system is said to be operationally feasible only if the end users are able to understand the system clearly and correctly and can use the system with ease and with the minimum training.



3. Overall Description:

3.1 Product Features

The project's aim is to provide an e-Commerce website for medicines which is containing Nodejs, React, API's for user.

3.2 Technology Used

BACK END

- Node.js.
- Express.js.
- MongoDB as a Database to store the data.

FRONT END

- React
- CSS

Platform:

Web Development: MERN Stack, MongoDB, Expressjs, React, Nodejs.

MERN Stack:

MERN stands for MongoDB, Express.js, React, Node.js.

MongoDb:

Here we had used MongoDB as a database in the backend, MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with optional schemas. MongoDB is developed by MongoDB Inc. and licensed under the Server Side Public License (SSPL) which is deemed non-free by several distributions.

Express.js:

Express is a minimal and flexible Node.js web application framework that provides a robust set of features for web and mobile applications. With a myriad of HTTP utility methods and middleware at your disposal, creating a robust API is quick and easy. Express provides a thin layer of fundamental web application features, without obscuring Node.js features that you know and love.



React:

React is used as Front-end to create attractive User-interface(UI). It is a JavaScript library for building user interfaces. React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes. Declarative views make your code more predictable and easier to debug.

Node.js:

Node.js are also used in backend for connecting to database and to perform some operations. Node.js is cross-platform and open source server environment. Node.js allows you to run JavaScript on the server. Node.js is asynchronous event-driven JavaScript runtime, Node.js is used to build scalable network application. Node.js use chrome's V8 engine to execute code.

3.2 User Classes

There is two type of user which can access this website. One is customer and the second one is ADMIN which will manage the users, products and orders.

3.3 General Constraints

Users should have an email and have a browser.

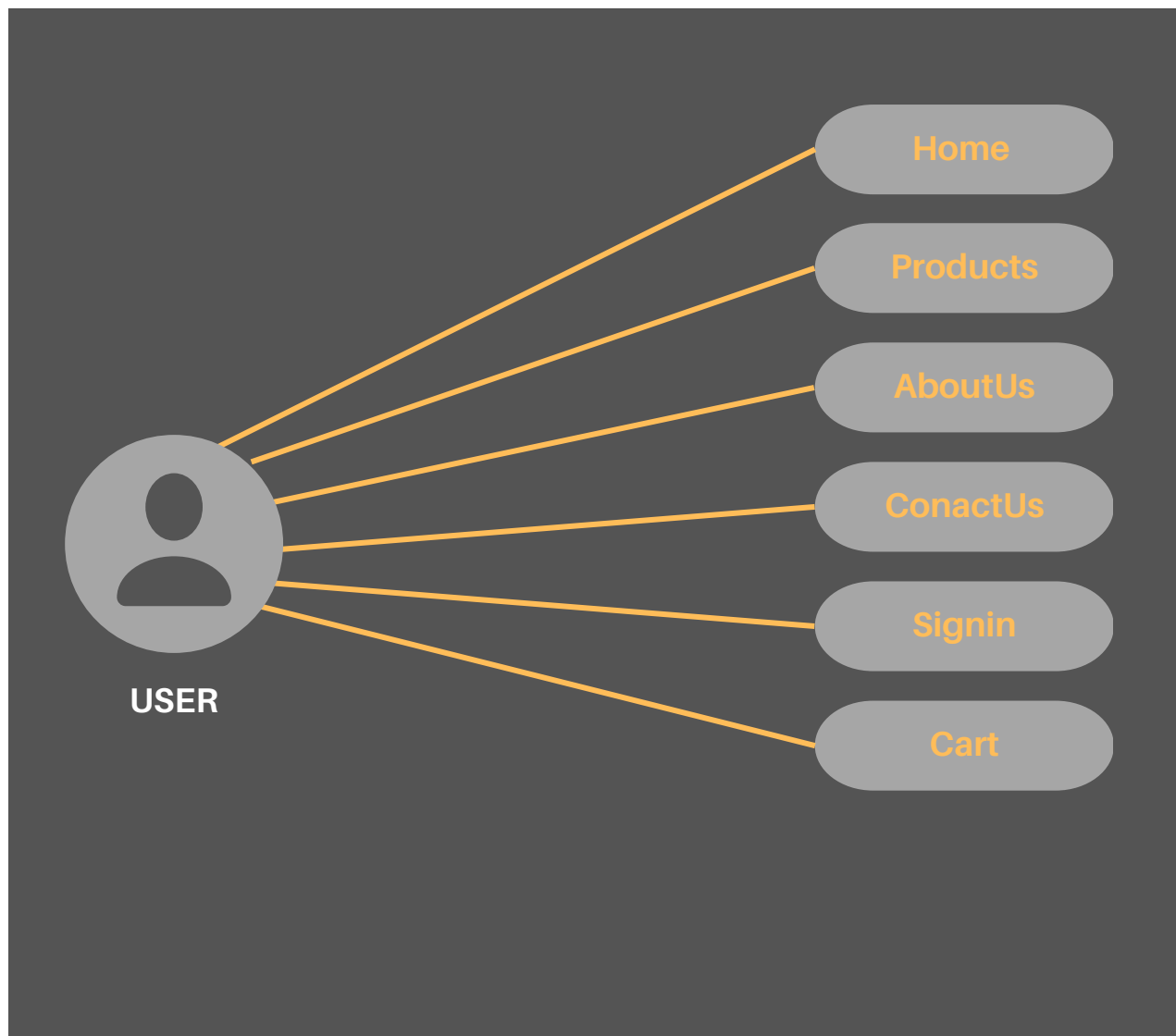


4. REQUIREMENTS

4.1 FUNCTIONAL REQUIREMENTS

4.1.1 Complete System:

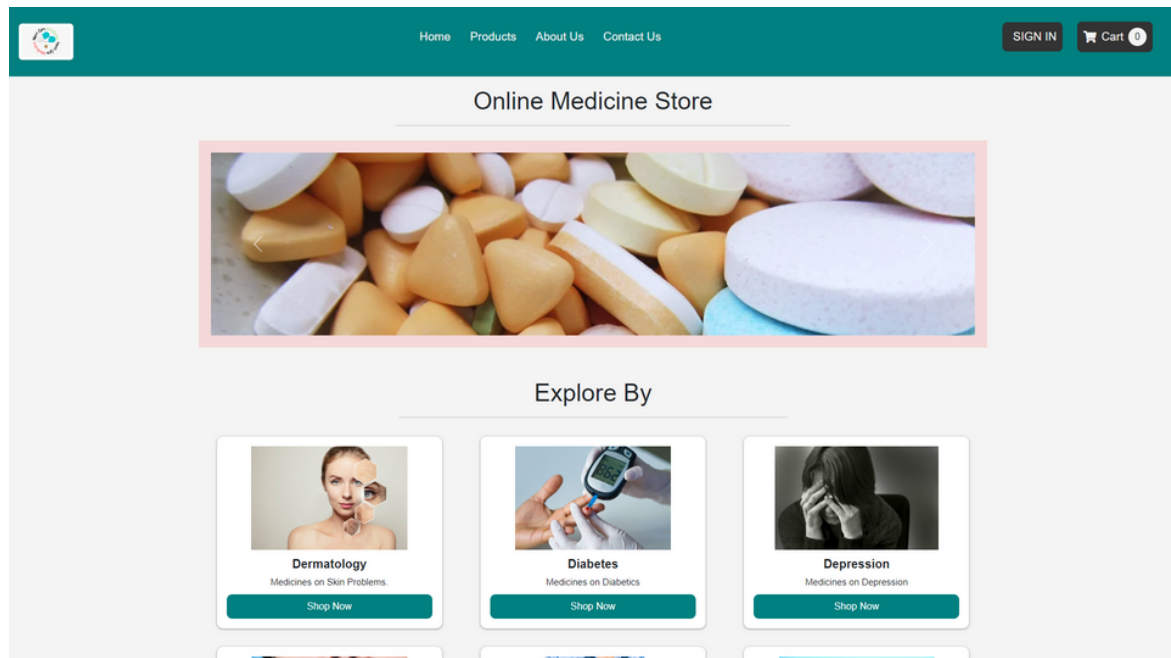
USER





4.1 USER INTERFACE REQUIREMENTS

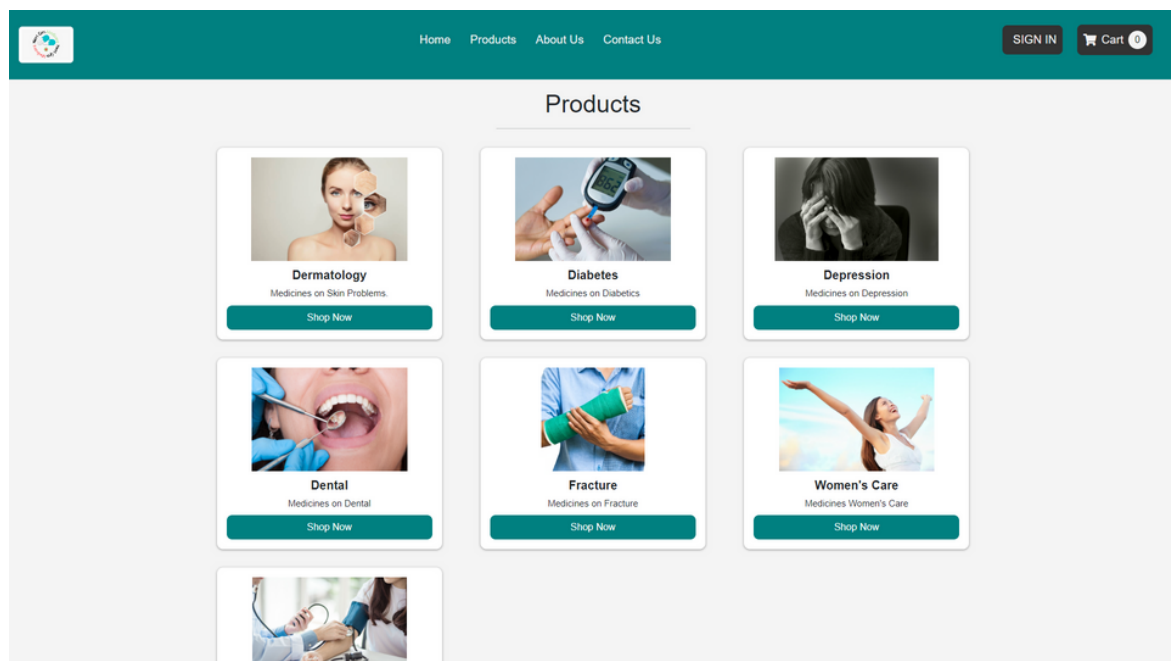
Home Page:





Next Gen Medicare

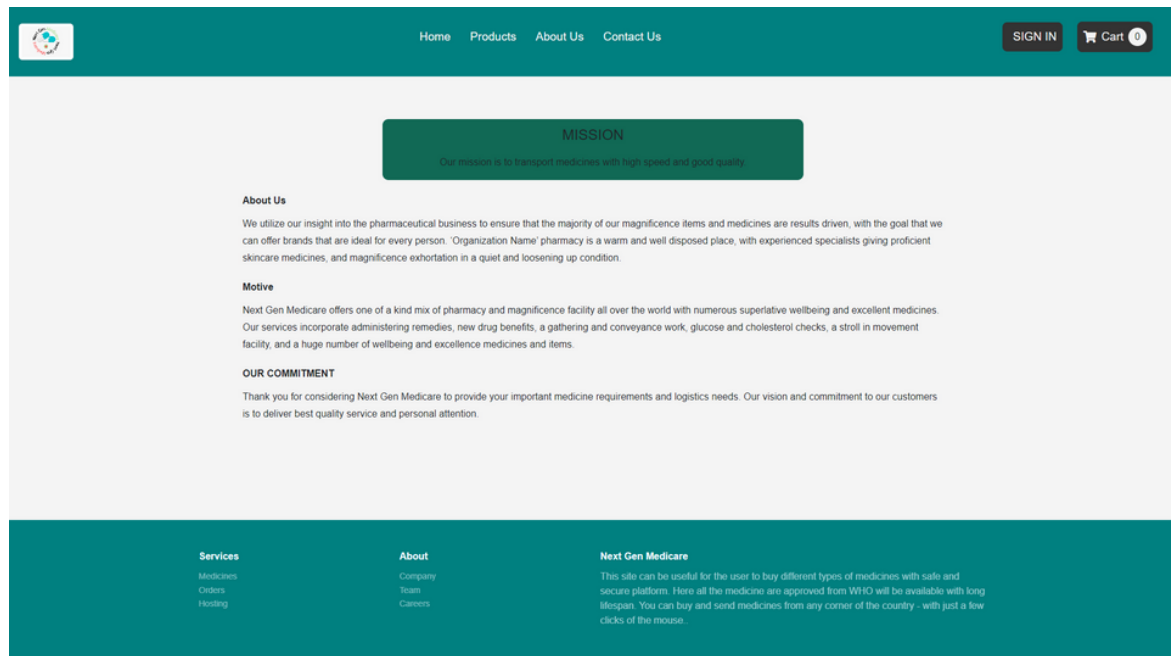
Product Page:





Next Gen Medicare


AboutUs Page:





Next Gen Medicare

ContactUs Page:

[Home](#) [Products](#) [About Us](#) [Contact Us](#) [SIGN IN](#) [Cart](#)

Contact Us

Name

Email address

We'll never share your email with anyone else.

Gender ☐ Female ☐ Male

Select City

Message

[Submit](#)

Services

- Medicines
- Orders
- Hosting

About

- Company
- Team
- Careers

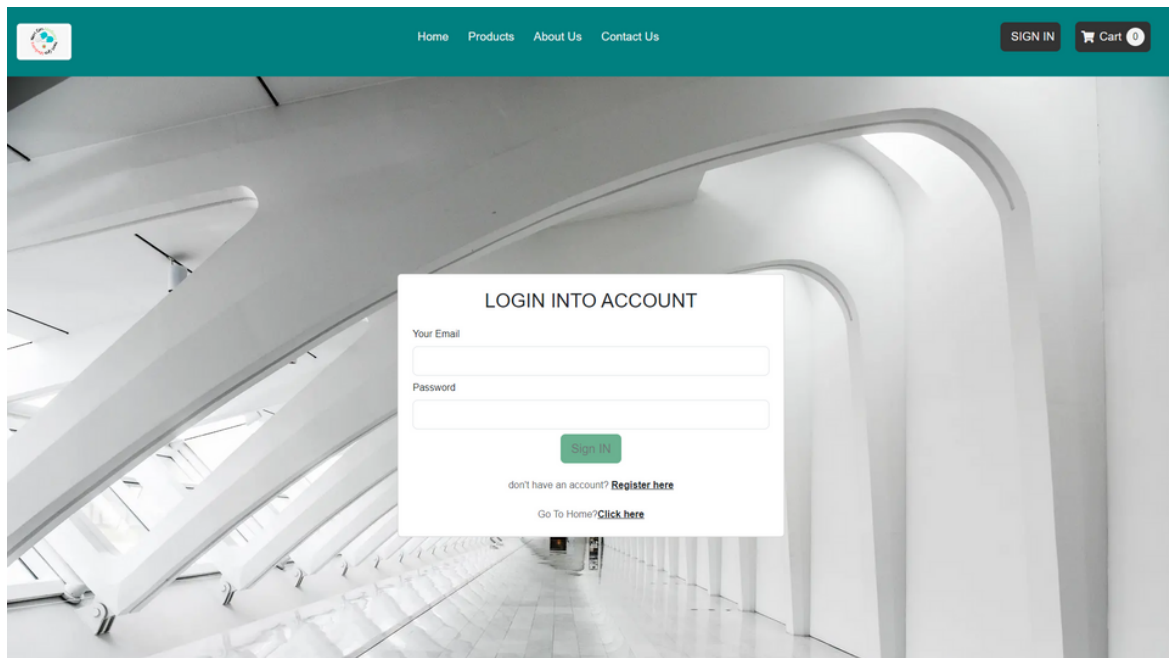
Next Gen Medicare

This site can be useful for the user to buy different types of medicines with safe and secure platform. Here all the medicine are approved from WHO will be available with long lifespan. You can buy and send medicines from any corner of the country - with just a few clicks of the mouse.



Next Gen Medicare

SignIn Page:



The screenshot shows the login page of the Next Gen Medicare website. The page has a teal header with navigation links: Home, Products, About Us, and Contact Us. On the right side of the header, there are buttons for 'SIGN IN' and 'Cart' with a shopping cart icon. The main content area features a large, high-angle photograph of a modern, white, curved architectural structure. Overlaid on this image is a white login form titled 'LOGIN INTO ACCOUNT'. The form contains two input fields: 'Your Email' and 'Password'. Below these fields is a green 'Sign In' button. Under the button, there is a link that says 'don't have an account? Register here' and another link that says 'Go To Home? Click here'.

Home Products About Us Contact Us

SIGN IN Cart

LOGIN INTO ACCOUNT

Your Email

Password

Sign In


don't have an account? [Register here](#)

Go To Home? [Click here](#)





Next Gen Medicare

Cart Page:

[Home](#) [Products](#) [About Us](#) [Contact Us](#) [LOG OUT](#) [Cart 1](#)

Shopping Cart

	Calamine Lotion	₹240	<input type="text" value="1"/>	
---	-----------------	------	--------------------------------	---

Subtotal (1) Items

TOTAL(INR) : ₹240.00

TOTAL(USD) : \$0.696

[Pay With Card](#)

Services

- Medicines
- Orders
- Hosting

About

- Company
- Team
- Careers

Next Gen Medicare

This site can be useful for the user to buy different types of medicines with safe and secure platform. Here all the medicine are approved from WHO will be available with long lifespan. You can buy and send medicines from any corner of the country - with just a few clicks of the mouse.



5. Database

5.1 Database Info

The following table structures depict the database .

MongoDB:

User Collection:

MongoDB Compass - localhost27017/phy.users

Connect View Collection Help

localhost27017 Documents phy.users

My Queries Databases

Search

Next-Gen-Medicare Northwind Pharma UserData admin config crud-app digitio e-commerce lama local phy carts categories products users practice shop

phy.users

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' } Reset Find More Options

ADD DATA EXPORT COLLECTION

1 - 3 of 3

```
{ "_id": ObjectId("6407fea3bf156387c756dfc"), "isAdmin": false, "username": "swarnit7", "email": "swarnit@gmail.com", "password": "52a5185Q-MRrPI442sqVRoNztyw.lwFTfgG7VMxL2Df5TncqkELfs07.a", "lname": "mankar", "fname": "swarnit", "createdAt": "2023-03-08T03:18:59.395+00:00", "updatedAt": "2023-03-08T03:18:59.395+00:00", "__v": 0 }
```

```
{ "_id": ObjectId("64081cfba39799737ca7c363"), "isAdmin": false, "username": "monil12", "email": "monil@gmail.com", "password": "52a5185a4ep8Y8o6qgQWb8l/Z9ghu.AT/5S2lQ1jpd2Pztcz42Tezsecv7Q.", "lname": "nariya", "fname": "monil", "createdAt": "2023-03-08T05:28:27.193+00:00", "updatedAt": "2023-03-08T05:28:27.193+00:00", "__v": 0 }
```

```
{ "_id": ObjectId("64082194d24d352184e9b12b"), "isAdmin": false, "username": "nandinil11" }
```

> MONGODB



Product Collection:

MongoDB Compass - localhost:27017/phy-products

Connect View Collection Help

localhost:27017 Documents phy.products

My Queries Databases

Search

- Next-Gen-Medicare
- Northwind
- Pharma
- UserData
- admin
- config
- crud-app
- digitio
- e-commerce
- lama
- local
- phy
 - oarts
 - categories
 - products
 - users
 - practice
 - shop

phy.products

45 DOCUMENTS 1 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' } Reset Find More Options

ADD DATA EXPORT COLLECTION

1 - 20 of 45

```
{
  "_id": ObjectId("6407f59c9b1f7a4d28a997e9"),
  "imgsrc": "https://t1img.t1static.com/fp/1/006/419/tazarotene-cream-0-1--641.jpg",
  "title": "Tazarotene",
  "indication": "This medication is a retinoid, prescribed for psoriasis and acne. It m...",
  "dosage": "Adult: Topical- As 0.05 or 0.1% cream/gel: Apply once in the evening.",
  "sideEffects": "Skin: Itching, burning/stinging, redness, skin peeling, irritation, wo...",
  "price": 420,
  "countInStock": 500,
  "category": "Dermatology",
  "...v": 0,
  "createdAt": 2023-03-08T02:40:28.461+00:00,
  "updatedAt": 2023-03-08T02:40:28.461+00:00
}
```

```
{
  "_id": ObjectId("6407f59c9b1f7a4d28a997ea"),
  "imgsrc": "https://i.postimg.cc/D0VJ7Lr3/iso.jpg",
  "title": "Isotretinoin",
  "indication": "This medication is a retinoid, prescribed for acne and other skin diso...",
  "dosage": "Adult- PO- The recommended dose range is 0.5 to 1.0 mg/kg/day given in...",
  "sideEffects": "Allergic reactions, fast heart rate and stroke.",
  "price": 299,
  "countInStock": 500,
  "category": "Dermatology",
  "...v": 0,
  "createdAt": 2023-03-08T02:40:28.462+00:00,
  "updatedAt": 2023-03-08T02:40:28.462+00:00
}
```

> MONGODB



Categories Collection:

MongoDB Compass - localhost:27017/phy:categories

Connect View Collection Help

localhost:27017 Documents phy.categories

My Queries Databases

Search

- Next-Gen-Medicare
- Northwind
- Pharma
- UserData
- admin
- config
- crud-app
- digitio
- e-commerce
- lama
- loal
- phy
 - oarts
 - categories
 - products
 - users
- practice
- shop


phy.categories

7 DOCUMENTS 2 INDEXES

Documents Aggregations Schema Explain Plan Indexes Validation

Filter Type a query: { field: 'value' } Reset Find More Options

ADD DATA EXPORT COLLECTION 1 - 7 of 7

<pre>{ "_id": ObjectId("6407f59c9b1f7a4d20a99816"), "img": "../images/derma3.jpg", "title": "Dermatology", "info": "Medicines on Skin Problems.", "goto": "products/dermatology", "v": 0, "createdAt": 2023-03-08T02:40:28.507+00:00, "updatedAt": 2023-03-08T02:40:28.507+00:00 }</pre>	
<pre>{ "_id": ObjectId("6407f59c9b1f7a4d20a99817"), "img": "../images/diabet3.jpg", "title": "Diabetes", "info": "Medicines on Diabetics", "goto": "products/diabetes", "v": 0, "createdAt": 2023-03-08T02:40:28.508+00:00, "updatedAt": 2023-03-08T02:40:28.508+00:00 }</pre>	
<pre>{ "_id": ObjectId("6407f59c9b1f7a4d20a99818"), "img": "../images/depression.jpg", "title": "Depression", "info": "Medicines on Depression", "goto": "products/depression", "v": 0, "createdAt": 2023-03-08T02:40:28.508+00:00, "updatedAt": 2023-03-08T02:40:28.508+00:00 }</pre>	

> MONGOOSH



7. Test Report

The report of the testing is given here under.

Sr. No	Test Case Title	Description	Expected Outcome	Error Message	Result
1	Home page Displayed	Home page display for every successful log in.	Home page Displayed	No Error	Passed
2	Product page	Here user can see all the products and can view the content of the product.	User can view the content of the product.	Signup Check	Passed
3	About Us	Here user can see all the information about our services which we provides	User can see the information about our website and services.	No Error	Passed
4	Contact Us	User can contact to the company	User can write his problem to the company.	No Error	Passed
5	SignIn	Should not allow any control to be empty if not null	If validated Allow to go to home page	Validation Error	Passed
6	Cart	User should be able to see its product details.	All products added to the cart can be seen	Console Error	Passed



8. Project Management Methodology

Scrum Agile Methodology was used.

9. FUTURE SCOPE :

1. We will provide payment gateway to the user so that he can also pay through online mode.
2. We will be adding order data storage in backend so that it will provide more info to the users and give more options to the customer to see the past records.
3. We will also give the order tracking functionality to the user.