



INSTITUTE FOR ADVANCED COMPUTING AND SOFTWARE DEVELOPMENT AKURDI, PUNE

Documentation On

Sparsh Store

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ABSTRACT

The Sparsh Online Plant Store application is a comprehensive ecommerce platform designed to facilitate the seamless buying and selling of plants. This project report provides an overview of the application's purpose, scope, objectives, functional requirements, and non-functional requirements.

The primary objective of Sparsh is to provide users with a user-friendly online platform to purchase a wide range of plants. This digital store aims to streamline the plant shopping experience, thereby enhancing the organization's efficiency and future growth prospects. Sparsh incorporates role-based authorization with two primary roles: "admin" and "user." Admin users hold administrative privileges, enabling them to perform CRUD operations on products.

The project abstract underscores the critical aspects of the Sparsh application's development and implementation. By addressing these functional and non-functional requirements, Sparsh aims to provide users with a secure, reliable, and user-friendly platform for purchasing plants online. With a strong focus on data security, performance optimization, and user experience, Sparsh is poised to become a prominent player in the online plant retail space.

ACKNOWLEDGEMENT

Apart from the efforts of the team, the success of any project depends largely on the encouragement and guidelines of many others. We take this opportunity to express our gratitude to the people who have been instrumental in the successful completion of this project.

The completion of any inter-disciplinary project depends upon cooperation, coordination and combined efforts of several sources of knowledge.

We are eternally grateful to our guide Mrs. Manjiri, for her even willingness to give us valuable advice and direction under which we executed this project. Her constant guidance and willingness to share her vast knowledge made us understand this project and its manifestations in great depths and helped us to complete the assigned tasks. I extend my sincere thanks to our respected Centre Co-ordinator Mr. Rohit Puranik for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

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INTRODUCTION

In the age of digital transformation, where convenience and accessibility are paramount, the Sparsh Online Plant Store application emerges as a solution tailored to meet the growing demands of plant enthusiasts. This project report serves as an introductory guide to the development and specifications of the Sparsh application, an online platform that facilitates the seamless purchase of plants.

Purpose: The primary objective of this document is to present a comprehensive overview of the Sparsh Online Plant Store application. By delineating its purpose, scope, objectives, and requirements, this report sets the stage for understanding the intricacies of a modern e-commerce platform designed to redefine the plant shopping experience.

Scope: The Sparsh application is conceived as an online haven for plant enthusiasts, offering a variety of functionalities to cater to users' diverse needs. From user registration and authentication to sophisticated admin operations, Sparsh encompasses an array of features such as role-based authorization, product browsing, shopping cart management, checkout, and more.

Objective: Sparsh is developed with a clear purpose: to provide a virtual marketplace for the purchase of plants. This project aims to empower the organization by facilitating efficient resource management and aligning with its future goals.

These encompass various aspects such as stringent security measures to safeguard user data, system reliability through regular data backups and administration, uninterrupted system availability, maintainability through strategic technological choices, portability across devices and environments, and more.

As we delve further into this project report, we will explore each facet of Sparsh's development journey, gaining insights into how the application's features align with its objectives and how its design prioritizes user experience, security, and sustainability. By meticulously addressing both functional and non-functional requirements, Sparsh endeavors to establish itself as a pioneer in the online plant retail landscape, catering to the needs of plant enthusiasts and fostering a harmonious ecosystem for buying and selling plants online.

1.1 PROJECT OBJECTIVE

The objective of this project report is to provide a comprehensive overview of the development, specifications, and functionalities of the Sparsh Online Plant Store application. This report aims to clearly outline the purpose, scope, requirements, and features of the application, shedding light on its significance, user benefits, and technological aspects. By achieving this objective, the report seeks to facilitate a deeper understanding of Sparsh as a modern e-commerce platform dedicated to simplifying the process of purchasing plants online.

1.2 PROJECT OVERVIEW

The Sparsh Online Plant Store application is an innovative e-commerce solution designed to redefine the plant shopping experience. This project report provides a comprehensive overview of the development, purpose, features, and functionalities of the Sparsh application. By detailing its objectives, scope, requirements, and non-functional attributes, this report aims to offer a holistic understanding of Sparsh as a modern online plant retail platform.cation contains two modules — the Admin module and the User module. Our application will not only help the admin to preview the data but it will also allow them to edit, add or update records.

1.3 PROJECT SCOPE

The scope of this project report is to provide a comprehensive understanding of the Sparsh Online Plant Store application, outlining its purpose, functionalities, and attributes. By defining the boundaries and extent of the application's capabilities, this report aims to elucidate the project's focus and the value it brings to users.

1.4 STUDY OF THE SYSTEM

1.4.1 MODULES:

The system after careful analysis has been identified to be presented with the following modules and roles. The modules involved are:

- > Administrator
- ➤ Users

1.4.1.1 Administrator:

<u>DESCRIPTION</u> - The admin can add users, update user identity verification , update appointment status, create/update/delete events.

MAIN FLOW OF EVENTS

- 1. Admin logs in the system.
- 2. Admin can add users.
 - 2.1 admin can fill the user's details.
- 3. Admin maintains user's record.
 - 3.1 List of registered user's details is displayed.
 - 3.2 Admin can see/update the user's ID proofs.
- 4. Admin View the blood stocks available and also can manage them.
- 5. Admin can approve or reject the blood consumption requests made by the users.
- 6. Admin can create events and manage and see them in a list form.

> Add user

Admin can add new users and register him with details like name, Email, age, gender, Id card and its number etc.

➤ Edit users

Admin will have a list view of all the existing users. He can also edit for a particular user.

➤ Add/Remove blood stock

Admin can add /remove blood stocks form the inventory.

> View blood donation history

Admin will have a dashboard where he/she can view all the blood donation history.

➤ Manage Events

Admin can add new events and also can remove from them.

➤ View all events

Admin will have a list view of all the existing events. He/she can also edit for a particular event.

1.4.1.2 Users:

MAIN FLOW OF EVENTS

- 1. Users can sign up in the system.
- 2. Users can sign up by filling their details like name, Email, age, phone Number, Id proof, Id number.
- 3. Users can view a list of all appointments.
- 4. Users view a list of Blood donations done by him/her.

<u>PRE -CONDITION</u> - Users must first log in with his/her credentials.

<u>POST CONDITION</u> - The dbms database is updated.

➤ Add Addresses

Users can add their multiple addresses by filing proper details.

➤ List All Addresses

Users will have a list view of all the Addresses of him/her.

➤ List All Blood Donations

Users will have a list view of all the donations done by him/her.

> Book Appointments

Users can book an appointment for the patient according to the blood group.

➤ List All Appointments

Users will have a list view of all the appointments generated by him/her.

SYSTEM ANALYSIS

System analysis is the process of gathering and interpreting facts, diagnosing problems, and using information to recommend improvements on the system. System analysis is a problem solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified, and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

2.1 EXISTING SYSTEM

In the existing system, Blood bank management functionalities are handled manually by Blood bank staff by keeping the records of every donor and consumer in a register. There is no record present for billings of patients and no history is available for appointments.

- It is less user-friendly.
- It is difficult to know the user's history.
- Difficult to maintain a user record.

2.2 PROPOSED SYSTEM

In the proposed system, we are developing a web application for blood bank management. In which two modules have access to the system. The proposed system allows to keep the record for every user and their blood consumptions. It will also have all the records of users booking and appointments.

2.3 SYSTEM REQUIREMENT SPECIFICATION

2.3.1 GENERAL DESCRIPTION

Product Description:

BloodForLives is an online website, an outstanding way of bringing users on an online platform to provide blood bank related facilities in an efficient manner. This website provides an Interactive interface through which a user can interact with different areas of the application easily by maintaining the blood stocks as well as user's information. OBBMS provides a simple interface and platform to ease the process of getting the information about blood availability online. It includes smooth functionality and efficiency that get the user's work done. BloodForLives keeps the information about the blood stock and user data updated.

Problem Statement:

• Lack of immediate retrievals :

It is very difficult to retrieve information and to find particular information like- E.g. - To find out the user's history, the admin has to go through various registers. This results in wastage of time.

• Lack of prompt updating :

Various changes to information like blood stocks history are difficult to make as paper work is involved.

• Error prone manual calculation:

By manual calculations error can be occur and take a lot of time this may result in incorrect information. For example calculation of available blood stocks based on various donations and consumptions.

• Preparation of accurate and prompt reports:

It is difficult task to collect information about patients from various register.

2.3.2 SYSTEM OBJECTIVES

- ➤ To provide a Web application for blood bank management
- ➤ To provide an web app for users to donate or consume blood easily.

2.3.3 SYSTEM REQUIREMENTS

2.3.3.1 NON-FUNCTIONAL REQUIREMENTS

Following Non-Functional Requirements will be there in the insurance to the internet:

- Secure access to Users confidential data.
- 24x7 availability.
- Better component design to get better performance at peak time.
- Various other Non-Functional requirements are:

1) Security:

- System use shall not cause any harm to human users.
- This web-based application will be password protected and any update of any entries of data will be carried out by privileged users.
- System shall use a secured database.
- Users can just read information but they cannot edit or modify anything except their personal information details. Only the System Administrator will do system administration and maintenance work.

2) Data Integrity:

- All the data in the OBBMS must be accurate and reliable.

3) Maintainability:

- OBBMS must have a high level of maintainability.

4) Portability:

- The application must be easily portable on any system.

5) Error Handling:

- The system should handle expected and unexpected errors in ways that prevent loss in information and long downtime periods.

6) Serviceability:

If any issue arises in the OBBMS, it should be programmed in such a way that developers can service it again easily.

2.3.3.2 FUNCTIONAL REQUIREMENTS

Admin:

• Database Management:

Admin can control the database and keep track of all the records of users, products and categories.

• User Details:

Admin can view the personal details of the users.

• Managing requests from Users:

Admin will be responsible for approval and rejection of the requests made by the consumers and donor for getting the blood of required type and donation of the blood respectively.

• View blood Stocks:

Admin will keep track of blood's stocks for the management purpose.

• Organize a blood donation camp:

Admin can organize a blood donation camp and he can assign the dates and centres for the blood donation camp.

Login & Logout:

Admin will have to login to monitor and perform the functions mentioned above. Admin can logout after completion of his work

User:

• <u>Login:</u>

Registered users can log in using their credentials, granting them access to personalized features and a customized shopping experience.

• Product Catalog Browsing:

Users can view an extensive catalog of plants available for purchase. The catalog displays plant names, images, prices, and brief descriptions to help users make informed decisions.

• view profile:

users can see the orsers he/she has done in the past in the form of order history. Also they can edit/update his/her profile.

• Logout:

After palcing order, the users can logout himself.

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SYSTEM DESIGN

System design is the solution for the creation of a new system. This phase focuses on the detailed implementation of the feasible system. Its emphasis on translating design specifications to performance specification. System design has two phases of development.

- ➤ Logical Design
- ➤ Physical Design

During logical design phase the analyst describes inputs (sources), outputs (destinations), databases (data sores) and procedures (data flows) all in a format that meets the user requirements. The analyst also specifies the needs of the user at a level that virtually determines the information flow in and out of the system and the data resources. Here the logical design is done through data flow diagrams and database design. The physical design is followed by physical design or coding. Physical design produces the working system by defining the design specifications, which specify exactly what the candidate system must do. The programmers write the necessary programs that accept input from the user, perform necessary processing on accepted data and produce the required report on a hard copy or display it on the screen.

3.1 INPUT AND OUTPUT DESIGN

3.1.1 INPUT DESIGN:

Input design is the link that ties the information system into the world of its users. The input design involves determining the inputs, validating the data, minimizing the data entry and provides a multi-user facility. Inaccurate inputs are the most common cause of errors in data processing. Errors entered by the data entry operators can be controlled by input design. The user-originated inputs are converted to a computer-based format in the input design. Input data are collected and organized into groups of similar data. Once identified, the appropriate input media are selected for processing. All the input data are validated and if any data violates any conditions, the user is warned by a message. If the data satisfies all the conditions, it is transferred to the appropriate tables in the database. In this project the student details are to be entered at the time of registration. A page is designed for this purpose which is user friendly and easy to use. The design is done such that users get appropriate messages when exceptions occur.

3.1.2 OUTPUT DESIGN:

Computer output is the most important and direct source of information to the user. Output design is a very important phase since the output needs to be in an efficient manner. Efficient and intelligible output design improves the system relationship with the user and helps in decision making. Allowing the user to view the sample screen is important because the user is the ultimate judge of the quality of output. The output module of this system is the selected notifications.

DATABASE DESIGN

3.2 DATABASE

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential settings for a database are

- Primary key the field that is unique for all the record occurrences
- Foreign key the field used to set relation between tables

Normalization is a technique to avoid redundancy in the tables.

3.3 SYSTEM TOOLS

The various system tools that have been used in developing both the front end and the back end of the project are being discussed in this chapter.

3.3.1 FRONT END:

React is a library which is developed by Facebook is utilized to implement the frontend. React (also known as React.js or React JS) is a free and open-source front-end JavaScript library for building user interfaces or UI components. It is maintained by Face book and a community of individual developers and companies. React can be used as a base in the development of single page or mobile applications. However, React is only concerned with state management and rendering that state to the DOM, so creating React applications usually requires the use of additional libraries for routing, as well as certain client-side functionality.

3.3.2 BACKEND:

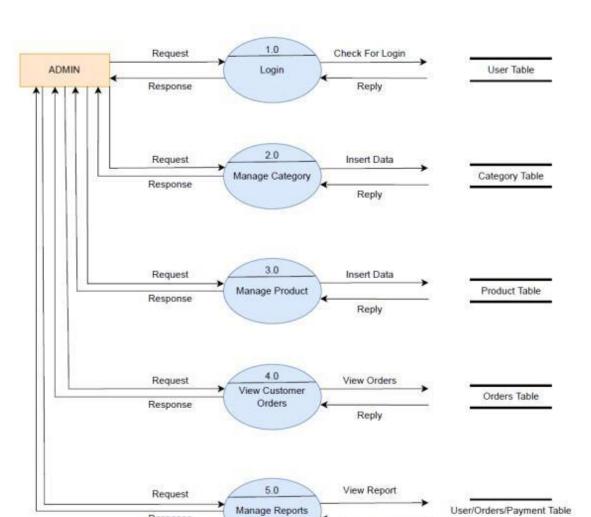
The back end is implemented using MySQL which is used to design databases.

MySQL:

management system (RDBMS). The SQL phrase stands for Structured Query Language. Application software called Navicert was used to design the tables in MySQL.

Spring-Boot:

This is used to connect MYSQL and fetch data from database and store the data in database. The Spring Framework is an application framework and inversion of control container for the Java platform. The framework's core features can be used by any Java application, but there are extensions for building web applications on top of the Java EE (Enterprise Edition) platform. Although the framework does not impose any specific programming model, it has become popular in the Java community as an addition to the Enterprise JavaBeans (EJB) model. The Spring Framework is Open-source Framework.



Response

Figure 3 Level 2 DFD for Admin

Display Data

Figure 4 2 Zero Level DFD



E-R Diagram

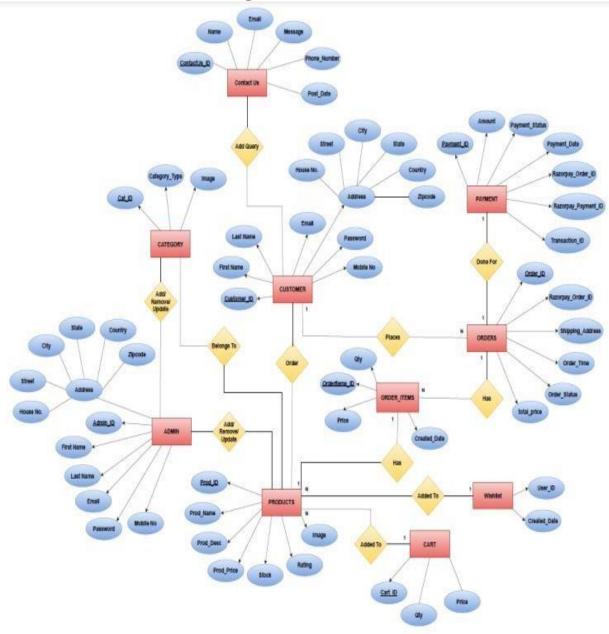


Figure 5 E-R Diagram

Sequence Diagram

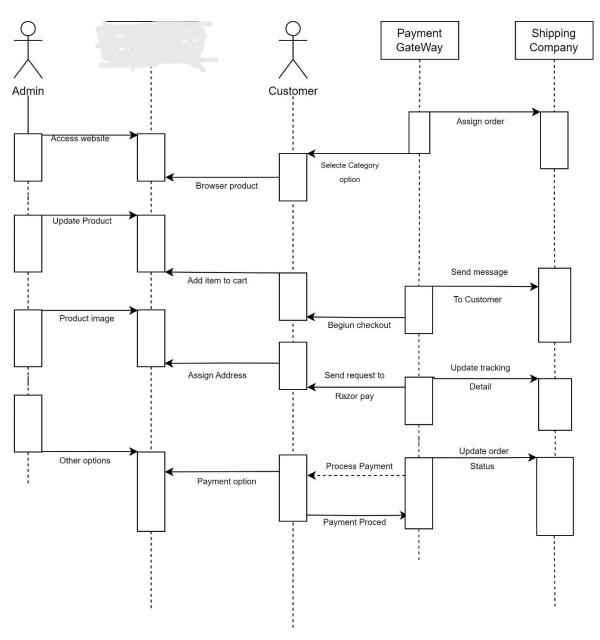
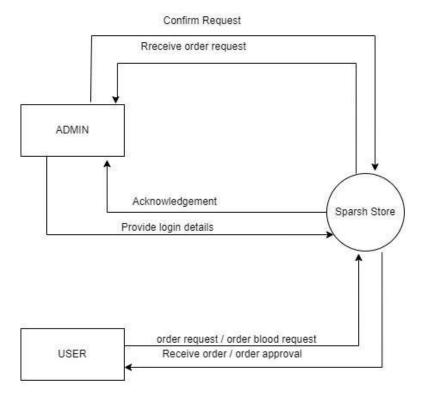


Figure 6 Zero level DFD



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TABLE STRUCTURE:

User:

Field	 Туре	+ Null	 Key	Default	++ Extra
id email first_name last_name otp password password_reset_code phone_number role address_id	bigint varchar(50) varchar(30) varchar(30) int varchar(350) varchar(255) varchar(255) varchar(30)	NO YES	PRI UNI	NULL NULL NULL NULL NULL NULL NULL NULL	auto_increment
+		+	t	+	tt

Addresses:

+ Field	+ Type	Null	Key	Default	Extra
id city country house_no state street zipcode	bigint varchar(30) varchar(30) varchar(255) varchar(30) varchar(60) varchar(255)	NO YES YES YES YES YES YES	PRI	NULL NULL NULL NULL NULL NULL	auto_increment

Carts:

+	Туре	Null	 Key	Default	
id created_date quantity product_id user_id +	bigint	YES YES YES	 	NULL NULL NULL	auto_increment

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Categories:		
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Categories:

+	Type	Null	Key	Default	++ Extra
id category_name image_path			PRI	NULL NULL NULL	auto_increment

ContactUs:

Field	Туре	Null	Key	Default	+
message name	bigint varchar(255) varchar(500) varchar(255) varchar(255) date	YES	PRI	NULL NULL NULL NULL NULL	auto_increment

Order Items:

mysql> desc orde	er_items;	·		·	
Field	Туре	Null	Key	Default	Extra
id created_date price quantity order_id product_id	double bigint	YES YES YES YES	j i	NULL NULL NULL NULL NULL	auto_increment

Users:

mysql> desc users;		·			
Field	Туре	Null	Key	Default	Extra
id email first_name last_name otp password password_reset_code phone_number role address_id	bigint varchar(50) varchar(30) varchar(30) int varchar(350) varchar(255) varchar(255) varchar(30) bigint	NO YES	PRI UNI	NULL NULL NULL NULL NULL NULL NULL NULL	auto_increment

Payments:

payment_status	ysql> desc payments;				
payment_status	Field Type	Null	ll Key	Default	Extra
transaction_id varchar(255) YES NULL order_id bigint YES MUL NULL	payment_status varchar payment_amount double payment_date datetir razorpay_order_id varchar razorpay_payment_id varchar transaction_id varchar	r(255) YES YES me(6) YES r(255) YES r(255) YES r(255) YES	s s s s s	NULL NULL NULL NULL NULL NULL	auto_increment

Wishlist:

mysql> desc wish	nlist;			·	
Field	Туре	Null	Key	Default	Extra
id created_date product_id user_id	bigint date bigint bigint	YES YES	PRI MUL MUL	NULL NULL NULL NULL	auto_increment

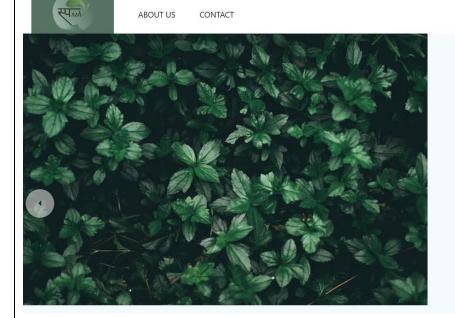
Contactus:

mysql> desc contactus;						
Field	Туре	Null	Key	Default	Extra	
id email message name phone_number post_date	varchar(255)	YES YES	PRI	NULL NULL NULL NULL NULL	auto_increment 	

Wishlist:

mysql> desc wish	nlist;		.	.	·
Field	Type	Null	Key	Default	Extra
created_date product_id		YES YES	PRI MUL MUL	NULL NULL NULL NULL	auto_increment
· · · · · · · · · · · · · · · · · · ·	+		t		 +

PROJECT DIAGRAM



Welcome

SEE CATEGORIES REGISTER SIGN IN

Enjoy The Shopping!!!

SHOP NOW



Enjoy The Shopping!!!

SHOP NOW



Plants can add beauty and life to any space, whether it's an office, home, or outdoor garden. They come in various shapes, sizes, and colors, making them

versatile and appealing.















Useful Links

Home Shop Now

About us View Categories

Contact

Jaipur, India

+91 9119*****







Rohit Kum



ABOUT US

CONTACT

SHOW CATEGORIES

ABOUT US

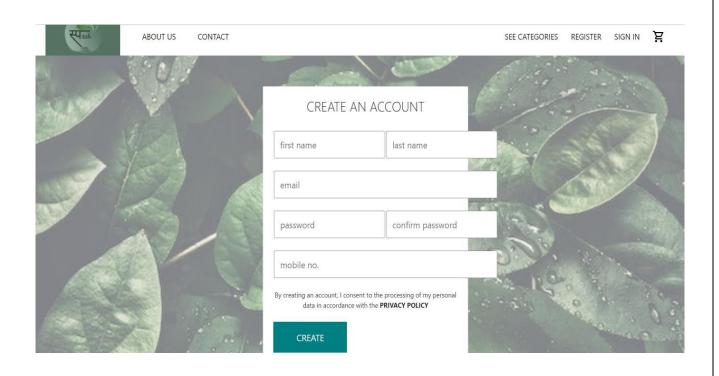


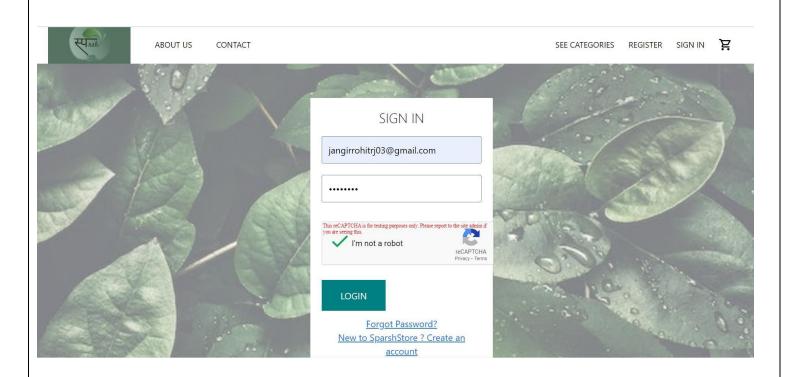
Get the & Plants to make your home look modern & Society looks beautiful!!!

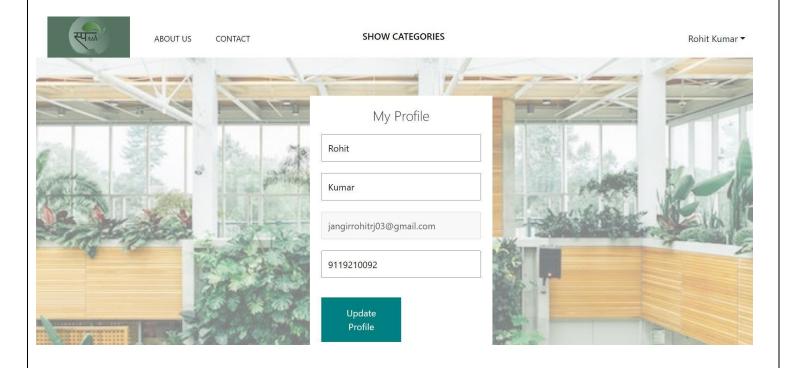
Sparsh Store is an Indian Platform to provide plants for your farm, home and society. Can order variety of plants from our website

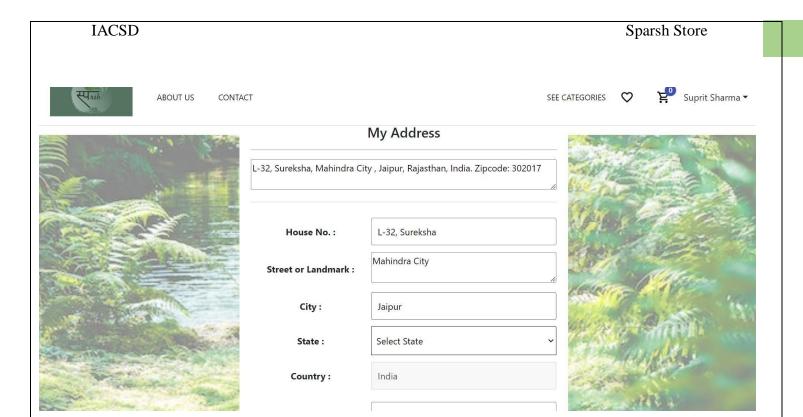
OUR MISSION

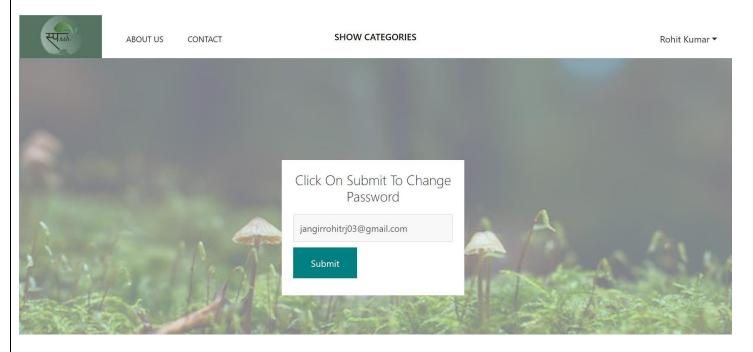
Making india green and beautiful in every street, in every city,in every home.



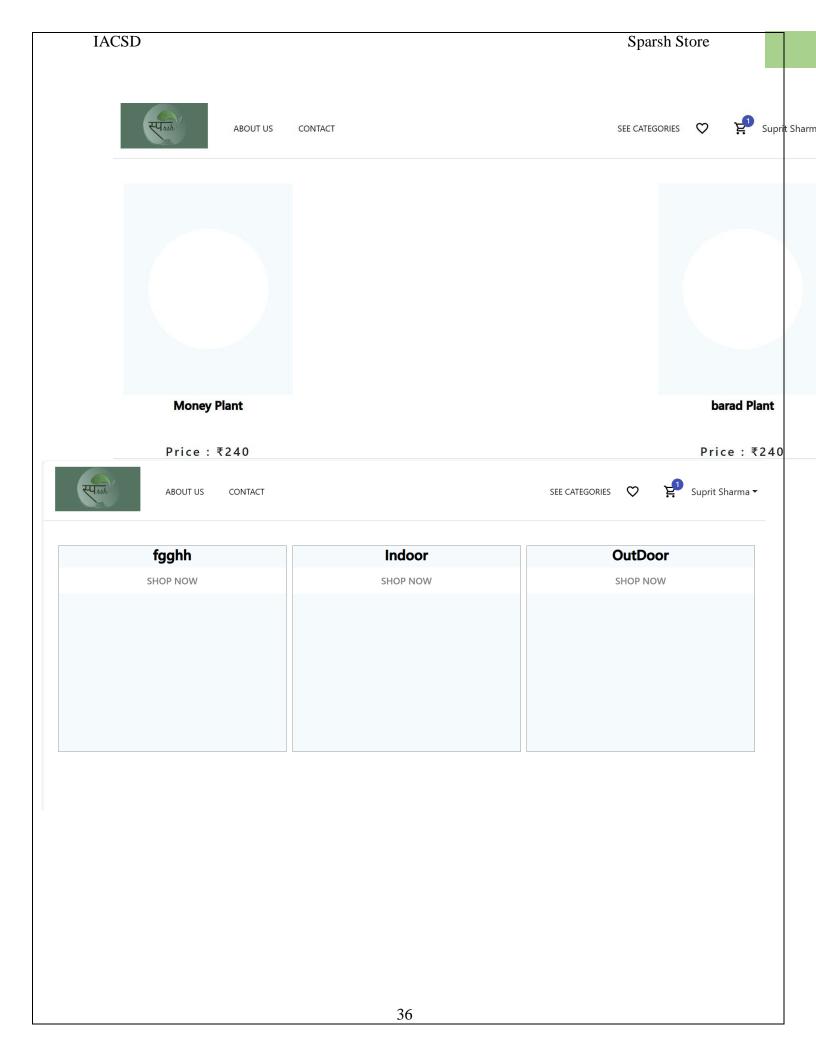


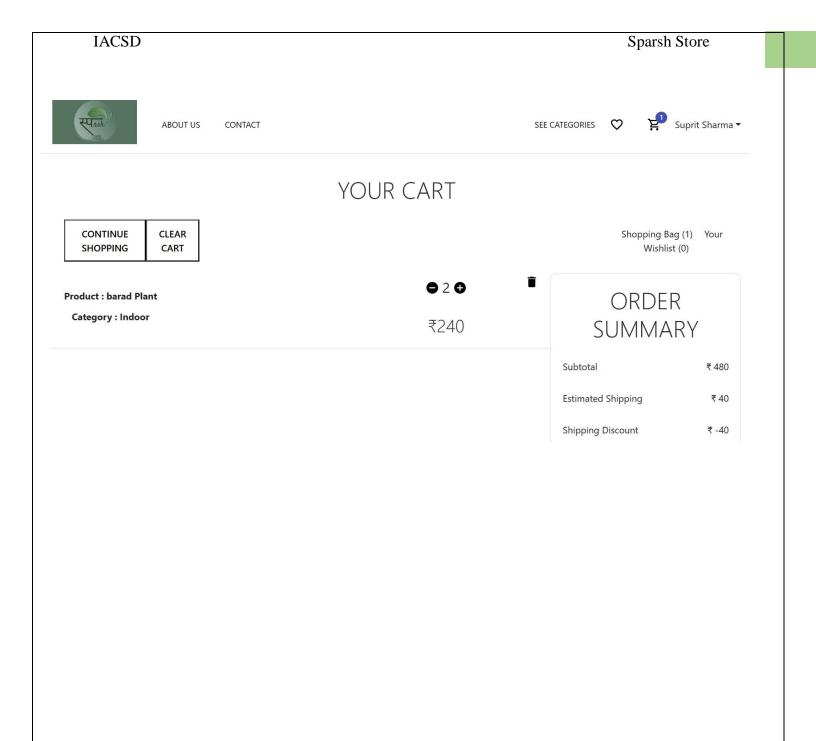


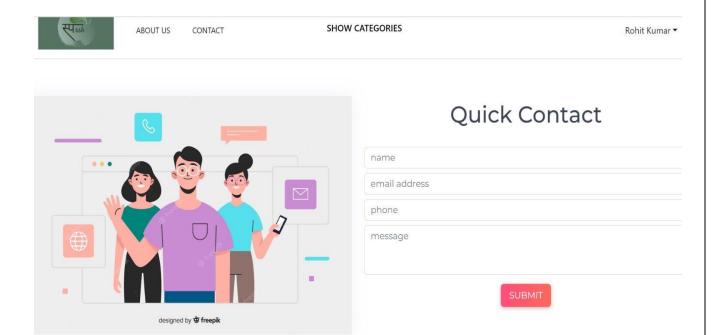












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CONCLUSION

The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to maintain patient records efficiently and securely for future use.

This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using React.js, usage of responsive templates, designing of android applications, and management of database using MySQL. The entire system is secured. Also, the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project.

This project has given us great satisfaction in having designed an application which can be implemented to Sparsh Store.

Sparsh Storeadministrators would be able to significantly improve the operational control and thus streamline operations. This would enable to improve the response time to the demands of donor and consumer because it automates the process of collecting, collating and retrieving user's information

There is a scope for further development in our project to a great extent. A number of features can be added to this system in future like combining hospitals with this project. Also making dashboard more user's friendly. Also generate blood donation certificate.

These features could have implemented unless the time did not limit us.

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