

1. Project Overview and Objectives

- **Project Name:** Business Website
- **Description:** A responsive business website built using **React.js**.
- **Project Goals:**
 1. Showcase company products, services, and portfolio.
 2. Provide a **mobile-friendly, responsive interface**.
 3. Implement **reusable React components** for maintainability.
 4. Include **interactive features** like cart and contact form.
- **Objectives:**
 1. Learn and implement React.js concepts in a real project.
 2. Ensure accessibility and performance optimization.
 3. Organize code for clarity and scalability.
 4. Document all technical aspects for future reference.

2. Setup and Installation Instructions

1. **Clone the repository:**

```
git clone https://github.com/SGauri24/business-website.git
```

2. **Navigate to the project folder:**

```
cd business-website
```

3. Install dependencies:

```
npm install
```

4. Run the project locally:

```
npm start
```

- Opens at: <http://localhost:3000>

5. Build the project for production:

```
npm run build
```

- Compiles the app into the `build/` folder ready for deployment

3. Code Structure Explanation

```
business-website/
|
├── README.md           → Project overview and instructions
├── .gitignore          → Ignored files (node_modules/, build/)
├── package.json         → Dependencies and scripts
├── src/                → React application source code
|   ├── components/     → Reusable components (Navbar, Footer,
|   |   ProductCard)
|   ├── pages/           → Individual pages (Home, About, Services,
|   |   Portfolio, Products, Cart, Contact)
|   ├── styles/          → CSS (global, responsive, variables,
|   |   animations)
|   └── assets/          → Images, logos, portfolio pictures
├── public/              → Static assets (index.html, favicon, manifest)
├── docs/                → Additional documentation (optional)
└── tests/               → Test files (optional)
```

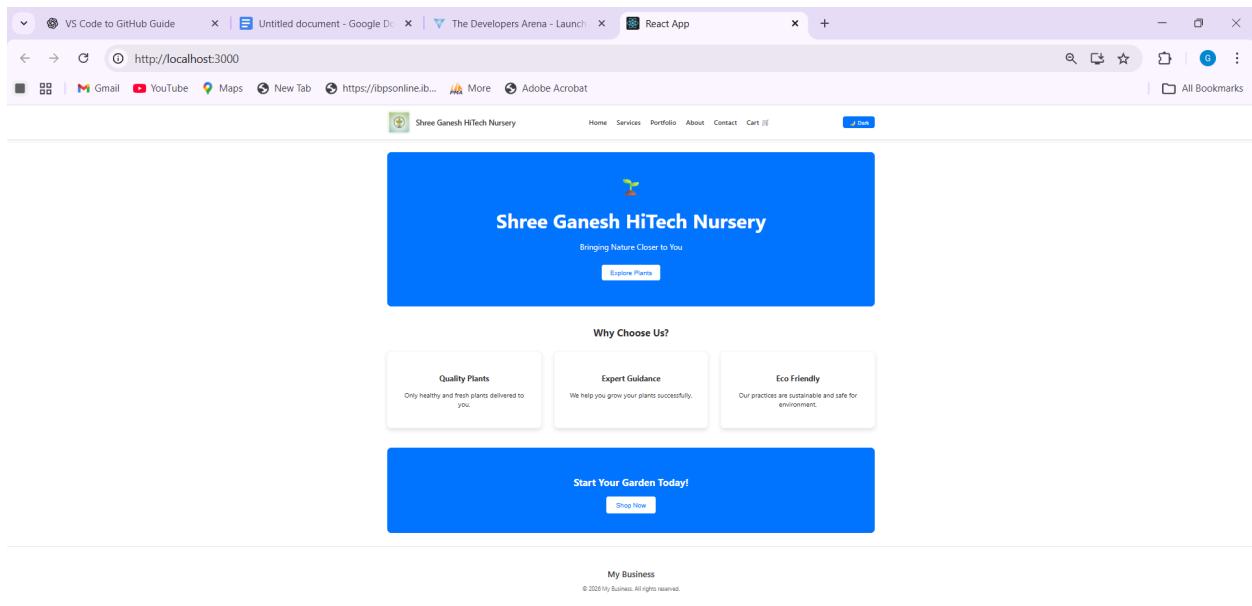
└ .github/

→ GitHub Actions workflows (optional)

- **Components:** Modular, reusable UI components
 - **Pages:** Each route has its own folder
 - **Styles:** Organized into global, responsive, and animations for maintainability

4. Visual Documentation (Screenshots)

1. Home Page



2. Services Page

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "React App" and displays the "Our Services" page for "Shree Ganesh HiTech Nursery". The page features a header with the nursery's logo and name, followed by a section titled "Our Services" with three cards: "Plant Sales" (with a small plant icon), "Garden Consultancy" (with a flower icon), and "Landscaping" (with a tree icon). Below this is a "My Business" footer with copyright information.

Shree Ganesh HiTech Nursery

Home Services Portfolio About Contact Cart

Dark

Our Services

Plant Sales
Wide variety of indoor, outdoor and fruit plants.

Garden Consultancy
Expert guidance for home and commercial gardens.

Landscaping
Professional landscaping and nursery solutions.

My Business
© 2026 My Business. All rights reserved.

3. Portfolio Page

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "React App" and displays the "Our Plants Portfolio" page for "Shree Ganesh HiTech Nursery". The page features a header with the nursery's logo and name, followed by a section titled "Our Plants Portfolio" with a sub-instruction "Explore our premium plants and garden collections". It then displays two rows of plant products with images, names, prices, and "Add to Cart" buttons. Below this is a "My Business" footer with copyright information.

Shree Ganesh HiTech Nursery

Home Services Portfolio About Contact Cart

Dark

Our Plants Portfolio

Explore our premium plants and garden collections

Rose Plant ₹299 Add to Cart	Tulip Collection ₹499 Add to Cart	Indoor Bonsai ₹699 Add to Cart	Orchid Arrangement ₹699 Add to Cart
Succulent Set ₹399 Add to Cart	Garden Setup ₹1499 Add to Cart		

My Business
© 2026 My Business. All rights reserved.

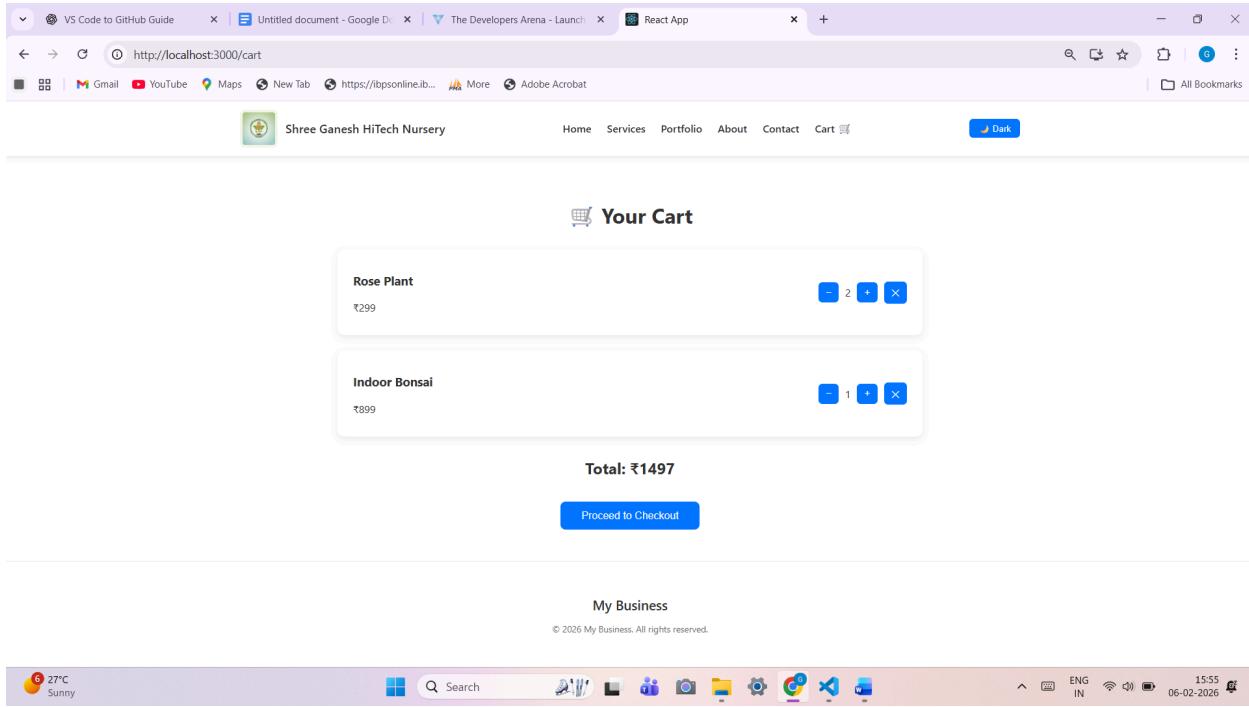
4. About Page

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "React App" and displays the "About" page for "Shree Ganesh HiTech Nursery". The page has a light green header with the title "About Shree Ganesh HiTech Nursery" and a subtitle "Bringing greenery and joy to your homes and gardens". Below this, there's a section titled "Our Story" with a brief description: "Shree Ganesh HiTech Nursery started with a passion for plants and sustainable gardening. We provide healthy plants and guidance for a greener lifestyle." There are three dark blue boxes below, each representing a value: "Quality" (We deliver only healthy, top-quality plants.), "Sustainability" (Eco-friendly practices in all our gardening solutions.), and "Expert Guidance" (We help our customers nurture and grow their plants successfully.). At the bottom of the page, there's a footer section titled "My Business" with a copyright notice: "© 2026 My Business. All rights reserved." The browser's status bar at the bottom shows the date and time as "06-02-2026 15:54".

5. Contact Page

The screenshot shows a web browser window with multiple tabs open. The active tab is titled "React App" and displays the "Contact" page for "Shree Ganesh HiTech Nursery". The page features a large form with a blue header titled "Contact Us" and a sub-header "We'd love to hear from you". The form includes fields for "Name" (with a placeholder "John Doe"), "Email" (with a placeholder "john.doe@example.com"), and "Message" (with a large text area). A blue "Send Message" button is located at the bottom of the form. Below the form, there's a footer section titled "My Business" with a copyright notice: "© 2026 My Business. All rights reserved." The browser's status bar at the bottom shows the date and time as "06-02-2026 15:55".

6. Cart Page



5. Component Architecture

App

- └─ Navbar
- └─ Footer
- └─ Pages
 - └─ Home
 - └─ About
 - └─ Services
 - └─ Portfolio
 - └─ Products
 - └─ Cart
 - └─ Contact
- └─ Components
 - └─ ProductCard

- Shared components: **Navbar** and **Footer**
- Reusable component: **ProductCard** used in **Products** and **Portfolio** pages.

6. Responsive Strategy

- **Mobile-first design** approach
- **CSS Media Queries** for multiple screen sizes
- **Flexbox** and **CSS Grid** for flexible layouts
- Tested on **desktop, tablet, and mobile**

7. Accessibility Implementation

- Semantic HTML (`<header>`, `<nav>`, `<main>`, `<footer>`)
- **Alt attributes** for all images
- Proper **form labels** for input fields
- **Color contrast** tested for readability
- Focus styles for keyboard navigation

8. Performance Optimization Techniques

- Split code into **reusable components** to reduce re-renders
- Optimized images for faster loading
- Minimized CSS and JS for faster performance
- `.gitignore` prevents unnecessary files from bloating the repo

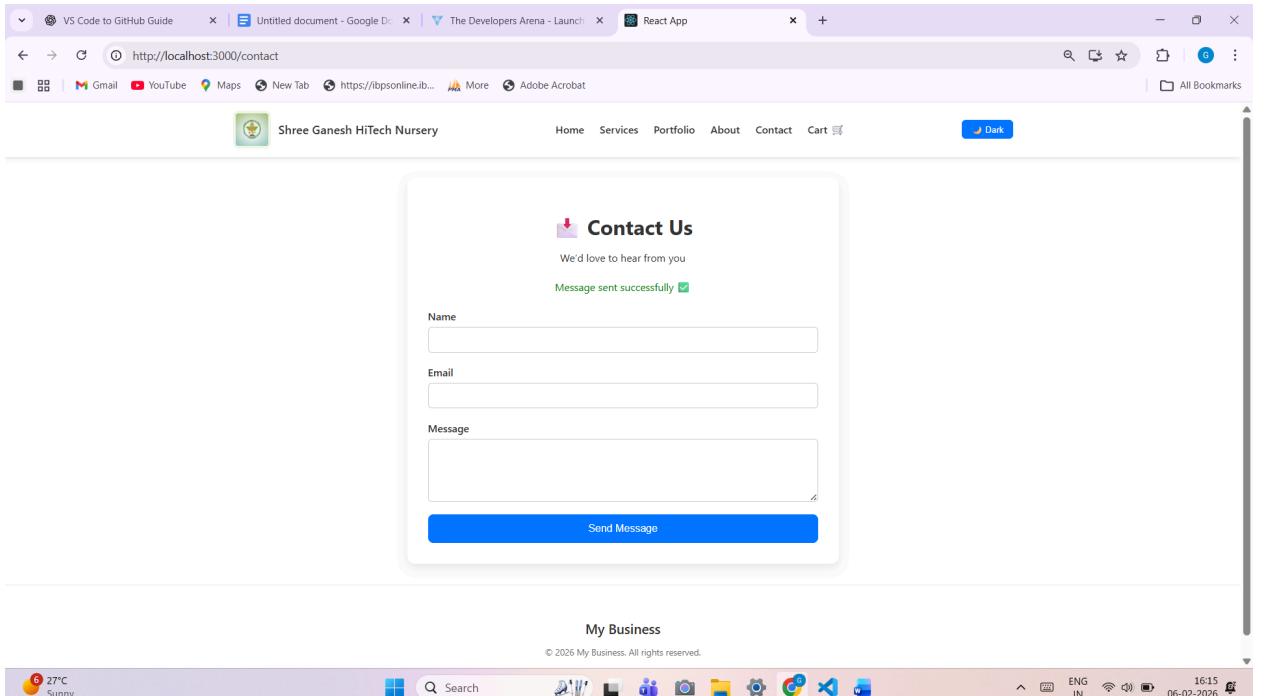
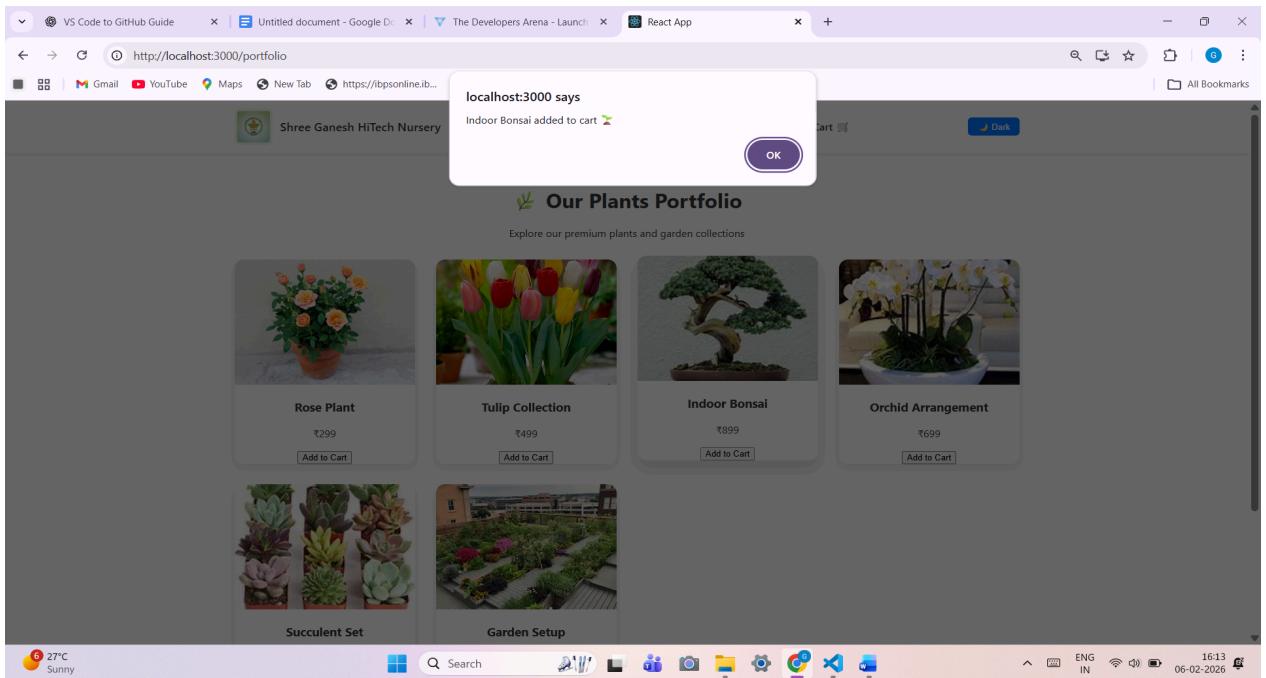
9. Technical Details

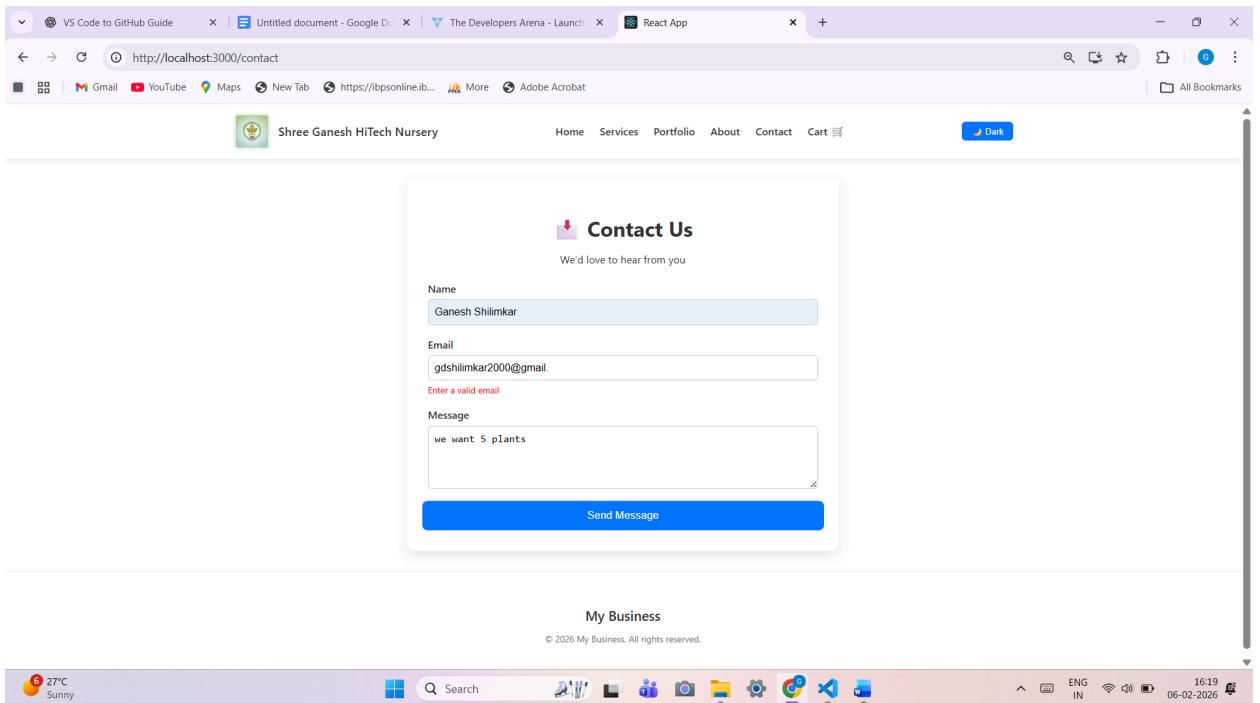
- **Algorithms & Data Flow:**

- Product data flows via **props** into **ProductCard** component
 - State management with **useState** for Cart and other interactive features
- **Architecture:**
 - Functional components for UI
 - CSS modularization for maintainability
 - Component hierarchy ensures clear parent-child data flow

10. Testing Evidence

Feature	Test Case	Expected Result
Navbar Links	Click each link in navbar	Navigate to correct page
ProductCard	Render multiple products	All products/cards displayed correctly
Cart	Add product to cart	Product appears in Cart page
Contact Form	Submit empty form	Validation error messages displayed
Contact Form	Submit valid form	Form submits successfully





11. Deployment Guide

1. Build the project:

```
npm run build
```

2. Host on platforms like Netlify, Vercel, or GitHub Pages

3. Upload the **build/ folder** or connect repo directly for automatic deployment
4. Check all **routes, assets, and images** work correctly online

12. How Technical Requirements Were Met

- **React Components:** Modular and reusable
- **Routing:** Each page properly navigable

- **Responsive Design:** Works on all devices
- **Accessibility:** Semantic HTML, alt attributes, labels, color contrast
- **Performance:** Optimized images, minimal re-renders
- **Version Control:** Complete GitHub repository with `.gitignore`