

The-Plant Technical Documentation

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• Title of Document

The-Plant E-commerce platform for plantation.

• Objectives / Aim

- Build an E-commerce platform especially for plantation and plant care for growing and give better user experience.

• Key Features

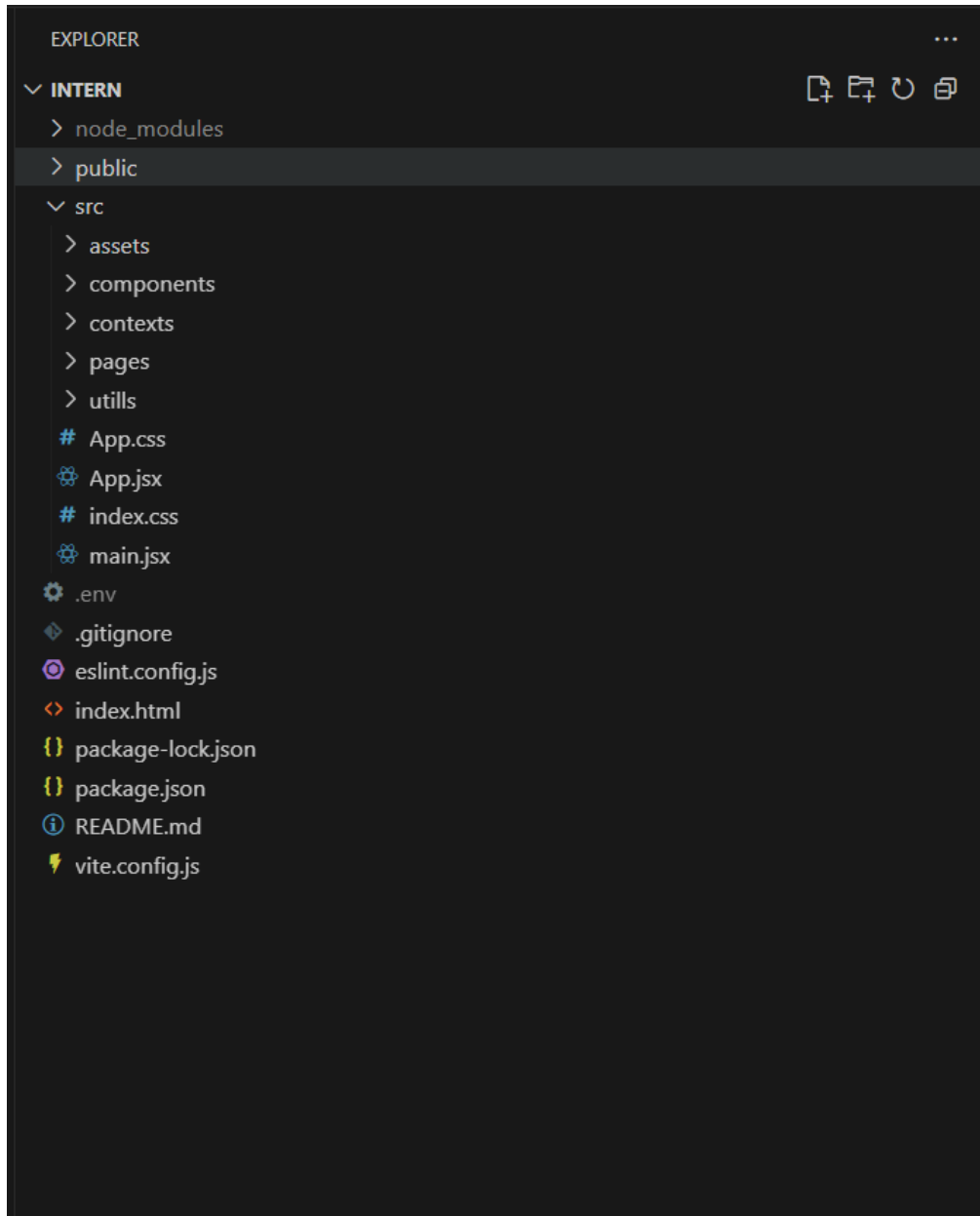
- Show plants list category wise like outDoor, Popular etc.
- Use plantneur API for fetching data & use some static data.
- Create responsive and clean UI.
- Use context API for manage Cart
- Easily routing facilities with navigation

• Technology used

- React JS
- Context API
- Tailwind css
- Rest API

- **ScreenShots**

- File Structure



➤ Footer.jsx

```
1  "use client"
2
3  import { Link } from "react-router-dom"
4
5  /**
6   * Footer Component
7   * Responsive Footer with company information, navigation links, and newsletter signup
8   * Features:
9   * - Mobile-first responsive grid layout
10   * - Collapsible sections on mobile devices
11   * - Newsletter subscription form
12   * - Contact information and quick links
13   * - Social media integration ready
14   */
15  const Footer = () => {
16    return (
17      <footer className="bg-emerald-700 text-white">
18        {/* Main Footer Content */}
19        <div className="px-4 sm:px-6 lg:px-14 py-8 lg:py-10">
20          <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-4 gap-8 lg:gap-6">
21            {/* Brand and Newsletter Section */}
22            <div className="flex flex-col items-start gap-4 lg:gap-5 sm:col-span-2 lg:col-span-1">
23              {/* Brand Logo */}
24              <div className="text-2xl sm:text-3xl lg:text-4xl border-b cursor-pointer">
25                ThePlant</span>
26            </div>
27
28            {/* Newsletter Signup */}
29            <div className="w-full">
30              <h2 className="text-lg font-medium mb-2">Subscribe</h2>
31              <p className="text-sm mb-4 text-emerald-100">Get 10% off your first order</p>
32              <div className="flex flex-col sm:flex-row gap-2">
33                <input
34                  className="flex-1 border border-emerald-600 bg-transparent p-2 text-white placeholder-emerald-200 rounded-md focus:outline-none focus:ring-2 focus:ring-white text-sm"
35                  type="email"
36                  placeholder="Enter your email"
37                />
38                <button className="bg-white text-emerald-700 px-4 py-2 rounded-md hover:bg-emerald-50 transition-colors text-sm font-medium">
39                  Subscribe
40                </button>
41              </div>
42            </div>
43          </div>
44
45          {/* Support Section */}
46          <div className="flex flex-col items-start gap-3 lg:gap-5">
47            <h2 className="text-lg lg:text-xl font-medium border-b border-emerald-600 pb-1">Support</h2>
48            <div className="space-y-2 text-sm lg:text-base text-emerald-100">
49              <p>
50                Sant Bhojaram Society,
51                <br />
52                Street 1, Rajkot
53              </p>
54              <p className="hover:text-white transition-colors cursor-pointer">greenplant@gmail.com</p>
55              <p className="hover:text-white transition-colors cursor-pointer">+91 92658 81552</p>
56            </div>
57          </div>
58        </div>
59      </footer>
60    )
61  }
```

```

59      { /* Account Section */
60      <div className="flex flex-col gap-3 lg:gap-5">
61        <h2 className="text-lg lg:text-xl font-medium border-b border-emerald-600 pb-1">Account</h2>
62        <ul className="space-y-2 text-sm lg:text-base text-emerald-100">
63          <li className="hover:text-white hover:underline transition-colors cursor-pointer">My Account</li>
64          <li className="hover:text-white hover:underline transition-colors cursor-pointer">Login / Register</li>
65          <li className="hover:text-white hover:underline transition-colors cursor-pointer">
66            <Link to={"/cart"}>Cart</Link>
67          </li>
68          <li className="hover:text-white hover:underline transition-colors cursor-pointer">Wishlist</li>
69          <li className="hover:text-white hover:underline transition-colors cursor-pointer">
70            <Link to={"/"}>Shop</Link>
71          </li>
72        </ul>
73      </div>
74
75      { /* Quick Links Section */
76      <div className="flex flex-col gap-3 lg:gap-5">
77        <h2 className="text-lg lg:text-xl font-medium border-b border-emerald-600 pb-1">Quick Links</h2>
78        <ul className="space-y-2 text-sm lg:text-base text-emerald-100">
79          <li className="hover:text-white hover:underline transition-colors">
80            <Link to={"/Popular"}>Most Popular</Link>
81          </li>
82          <li className="hover:text-white hover:underline transition-colors">
83            <Link to={"/New-Arrival"}>New Arrivals</Link>
84          </li>
85          <li className="hover:text-white hover:underline transition-colors">
86            <Link to={"/Out-Door-Plant"}>Outdoor Plants</Link>
87          </li>
88          <li className="hover:text-white hover:underline transition-colors">
89            <Link to={"/plant-Care"}>Plant Care</Link>
90          </li>
91          <li className="hover:text-white hover:underline transition-colors cursor-pointer">Terms of Use</li>
92          <li className="hover:text-white hover:underline transition-colors cursor-pointer">FAQ</li>
93          <li className="hover:text-white hover:underline transition-colors cursor-pointer">Contact</li>
94        </ul>
95      </div>
96    </div>
97  </div>
98
99  { /* Footer Bottom */
100  <div className="border-t border-emerald-600 px-4 sm:px-6 lg:px-14 py-4">
101    <div className="flex flex-col sm:flex-row justify-between items-center gap-4 text-sm text-emerald-100">
102      <p>&copy; 2024 The Plant. All rights reserved.</p>
103      <div className="flex gap-4">
104        <span className="hover:text-white transition-colors cursor-pointer">Privacy Policy</span>
105        <span className="hover:text-white transition-colors cursor-pointer">Terms of Service</span>
106      </div>
107    </div>
108  </div>
109 </footer>
110 }
111
112 export default Footer
113
114

```

➤ Header.jsx

```
1  "use client"
2
3  import { ShoppingBasket, UserRound, Menu, X, Search } from "lucide-react"
4  import { useState } from "react"
5  import { Link } from "react-router-dom"
6  import { useCart } from "../contexts/CartContext"
7
8  /**
9   * Header Component
10   * Responsive navigation header with mobile menu, search functionality, and cart integration
11   * Features:
12   * - Mobile-first responsive design
13   * - Collapsible mobile navigation menu
14   * - Cart item counter badge
15   * - Search functionality
16   * - Multi-level header structure with promotional banners
17   */
18  const Header = () => {
19    // State for mobile menu toggle
20    const [isMobileMenuOpen, setIsMobileMenuOpen] = useState(false)
21
22    // Cart context for displaying cart item count
23    const { cart, getCartItemCount } = useCart()
24
25    /**
26     * Toggle mobile menu visibility
27     */
28    const toggleMobileMenu = () => {
29      setIsMobileMenuOpen(!isMobileMenuOpen)
30    }
31
32    /**
33     * Close mobile menu when navigation link is clicked
34     */
35    const closeMobileMenu = () => {
36      setIsMobileMenuOpen(false)
37    }
38
39    return (
40      <div className="h-auto">
41        {/* Top promotional banner - Hidden on mobile, visible on tablet+ */}
42        <div className="bg-emerald-700 h-[40px] text-white hidden sm:flex justify-center items-center font-medium">
43          <p className="text-sm md:text-base">Welcome to E-commerce !</p>
44        </div>
45
46        {/* Main header section */}
47        <div className="h-[70px] px-4 sm:px-6 lg:px-10 flex justify-between items-center border-b border-gray-200">
48          {/* Logo section */}
49          <Link to="/" className="flex-shrink-0">
50            <div className="text-2xl sm:text-3xl lg:text-4xl border-b cursor-pointer">
51              The <span className="pl-2 sm:pl-4">Plant</span>
52            </div>
53          </Link>
54
55          {/* Desktop search bar - Hidden on mobile */}
56          <div className="hidden md:flex flex-1 max-w-md mx-8">
57            <div className="relative w-full">
```

```
67
68      {/* Desktop action icons */}
69      <div className="hidden md:flex gap-6 cursor-pointer items-center">
70        <UserRound size={23} className="hover:text-emerald-700 transition-colors" />
71        <Link to="/cart" className="relative">
72          <ShoppingBasket size={23} className="hover:text-emerald-700 transition-colors" />
73          {/* Cart item counter badge */}
74          {getCartItemCount() > 0 && (
75            <span className="absolute -top-2 -right-2 bg-red-500 text-white text-xs rounded-full h-5 w-5 flex items-center justify-center font-medium">
76              {getCartItemCount()}
77            </span>
78          )}
79        </Link>
80      </div>
81
82      {/* Mobile menu button and cart icon */}
83      <div className="flex md:hidden items-center gap-4">
84        {/* Mobile cart icon */}
85        <Link to="/cart" className="relative">
86          <ShoppingBasket size={23} className="hover:text-emerald-700 transition-colors" />
87          {getCartItemCount() > 0 && (
88            <span className="absolute -top-2 -right-2 bg-red-500 text-white text-xs rounded-full h-5 w-5 flex items-center justify-center font-medium">
89              {getCartItemCount()}
90            </span>
91          )}
92        </Link>
93
94        {/* Mobile menu toggle button */}
95        <button
96          onClick={toggleMobileMenu}
97          className="p-2 hover:bg-gray-100 rounded-md transition-colors"
98          aria-label="Toggle mobile menu"
99        >
100          {isMobileMenuOpen ? <X size={24} /> : <Menu size={24} />}
101        </button>
102      </div>
103    </div>
104
105    {/* Mobile search bar - Visible only on mobile */}
106    <div className="md:hidden px-4 py-3 border-b border-gray-200">
107      <div className="relative">
108        <input
109          className="border border-gray-200 hover:border-black w-full h-[40px] px-4 py-2 pr-10 rounded-md focus:outline-none focus:ring-2 focus:ring-emerald-500"
110          type="text"
111          name="search"
112          placeholder="Search for plants..."
113        />
114        <Search className="absolute right-3 top-1/2 transform -translate-y-1/2 text-gray-400 size=(18)" />
115      </div>
116    </div>
117
118    {/* Desktop navigation menu */}
119    <div className="hidden md:flex h-[60px] justify-center items-center list-none gap-6 lg:gap-10 font-medium cursor-pointer">
120      <Link
121        to="/New-Arrival"
122        className="hover:text-emerald-700 transition-colors px-2 py-1 rounded-md hover:bg-emerald-50"
123      >
```

```

118  Header.jsx 1 X
119  /* Desktop navigation menu */
120  <div className="hidden md:flex h-[60px] justify-center items-center list-none gap-6 lg:gap-10 font-medium cursor-pointer">
121    <Link
122      to={"/New-Arrival"}
123      className="hover:text-emerald-700 transition-colors px-2 py-1 rounded-md hover:bg-emerald-50"
124    >
125      New Arrival
126    </Link>
127    <Link
128      to={"/Popular"}
129      className="hover:text-emerald-700 transition-colors px-2 py-1 rounded-md hover:bg-emerald-50"
130    >
131      Most Popular
132    </Link>
133    <Link
134      to={"/Out-Door-Plant"}
135      className="hover:text-emerald-700 transition-colors px-2 py-1 rounded-md hover:bg-emerald-50"
136    >
137      Outdoor Plants
138    </Link>
139    <Link
140      to={"/plant-Care"}
141      className="hover:text-emerald-700 transition-colors px-2 py-1 rounded-md hover:bg-emerald-50"
142    >
143      Plant Care
144    </Link>
145  </div>
146  /* Mobile navigation menu - Collapsible */
147  <div
148    className={`md:hidden transition-all duration-300 ease-in-out ${
149      isMobileMenuOpen ? "max-h-96 opacity-100" : "max-h-0 opacity-0"
150    } overflow-hidden bg-white border-b border-gray-200`}
151  >
152    <div className="flex flex-col py-4 px-4 space-y-4 font-medium">
153      <Link
154        to={"/New-Arrival"}
155        onClick={closeMobileMenu}
156        className="hover:text-emerald-700 transition-colors py-2 px-3 rounded-md hover:bg-emerald-50"
157      >
158        New Arrival
159      </Link>
160      <Link
161        to={"/Popular"}
162        onClick={closeMobileMenu}
163        className="hover:text-emerald-700 transition-colors py-2 px-3 rounded-md hover:bg-emerald-50"
164      >
165        Most Popular
166      </Link>
167      <Link
168        to={"/Out-Door-Plant"}
169        onClick={closeMobileMenu}
170        className="hover:text-emerald-700 transition-colors py-2 px-3 rounded-md hover:bg-emerald-50"
171      >
172        Outdoor Plants
173      </Link>
174      <Link

```

```

155      onClick={closeMobileMenu}
156      className="hover:text-emerald-700 transition-colors py-2 px-3 rounded-md hover:bg-emerald-50"
157    >
158      New Arrival
159    </Link>
160    <Link
161      to={"/Popular"}
162      onClick={closeMobileMenu}
163      className="hover:text-emerald-700 transition-colors py-2 px-3 rounded-md hover:bg-emerald-50"
164    >
165      Most Popular
166    </Link>
167    <Link
168      to={"/Out-Door-Plant"}
169      onClick={closeMobileMenu}
170      className="hover:text-emerald-700 transition-colors py-2 px-3 rounded-md hover:bg-emerald-50"
171    >
172      Outdoor Plants
173    </Link>
174    <Link
175      to={"/plant-Care"}
176      onClick={closeMobileMenu}
177      className="hover:text-emerald-700 transition-colors py-2 px-3 rounded-md hover:bg-emerald-50"
178    >
179      Plant Care
180    </Link>
181  </div>
182  /* Mobile user actions */
183  <div className="flex items-center gap-4 pt-4 border-t border-gray-200">
184    <UserRound size={20} className="hover:text-emerald-700 transition-colors" />
185    <span className="text-sm text-gray-600">Account</span>
186  </div>
187 </div>
188 </div>
189
190  /* Bottom promotional banner */
191  <div className="bg-emerald-700 h-[40px] text-white flex justify-center items-center font-medium cursor-pointer">
192    <p className="px-2 underline text-sm md:text-base text-center">Buy one Get one offer started soon...!</p>
193  </div>
194 </div>
195 )
196 }
197
198 export default Header
199

```

➤ Home.jsx

```

1  "use client"
2
3  /**
4   * Home Component
5   * Responsive landing page with hero section featuring product showcase
6   * Features:
7   * - Mobile-first responsive design
8   * - Flexible layout that adapts to different screen sizes
9   * - Call-to-action buttons with responsive styling
10  * - Optimized image display for various devices
11  */
12  const Home = () => {
13    return (
14      <div className="min-h-screen flex flex-col lg:flex-row">
15        {/* Content Section */}
16        <div className="w-full lg:w-1/3 flex flex-col justify-center items-center lg:items-start p-6 sm:p-8 md:p-12 gap-6 lg:gap-8">
17          {/* Main Heading - Responsive typography */}
18          <h1 className="font-medium text-3xl sm:text-4xl md:text-5xl lg:text-6xl xl:text-7xl text-center lg:text-left leading-tight">
19            Your New Favorite Pickle
20          </h1>
21
22          {/* Description Text */}
23          <p className="font-light text-sm sm:text-base md:text-lg text-center lg:text-left text-gray-700 max-w-md">
24            Soft spikes and serious personality are two of the reasons you'll want to scoop up our newest arrival.
25          </p>
26
27          {/* Action Buttons - Responsive layout */}
28          <div className="flex flex-col sm:flex-row justify-center lg:justify-start items-center gap-4 sm:gap-6 w-full">
29            <button className="w-full sm:w-auto px-4 sm:px-6 py-3 bg-emerald-700 text-white font-light rounded-md hover:bg-emerald-800">
30              Shop the Pickle Plant
31            </button>
32            <button className="w-full sm:w-auto px-4 sm:px-6 py-3 text-emerald-700 font-light rounded-md hover:bg-emerald-50 border border-emerald-700">
33              Shop Beginner-Friendly Plant
34            </button>
35          </div>
36        </div>
37
38        {/* Image Section */}
39        <div className="w-full lg:w-2/3 order-1 lg:order-2 min-h-[300px] sm:min-h-[400px] lg:min-h-full">
40          
46        </div>
47      </div>
48    )
49  }
50
51  export default Home
52

```

➤ NewArrival.jsx

```

Cart.jsx  NewArrival.jsx X
1  "use client"
2  import { Link } from "react-router-dom"
3  import { useCart } from "../contexts/CartContext"
4
5  /**
6   * NewArrival Component - Responsive
7   * Displays new arrival plants with static data and responsive grid layout
8   * Features:
9   * - Responsive grid layout (1-4 columns)
10  * - Mobile-first design approach
11  * - Touch-optimized interactions
12  * - Responsive card design and typography
13  */
14  const NewArrival = () => {
15    // Cart context hook
16    const { addToCart } = useCart()
17
18    // Static data for new arrivals
19    const data = [ ...
20  ]
21
22  /**
23   * Helper function to normalize product format for cart compatibility
24   * @param {Object} item - Raw product item
25   * @returns {Object} Formatted product for cart
26   */
27  const formatProduct = (item) => ({
28    id: item.id,
29    common_name: item.name,
30    image_url: item.image,
31    price_inr: Number(item.price),
32    description: item.details || item.desc || "",
33  })
34
35  /**
36   * Handle add to cart functionality
37   * @param {Event} e - Click event
38   * @param {Object} item - Product item to add to cart
39   */
40  const handleAddToCart = (e, item) => {
41    e.stopPropagation()
42    e.preventDefault()
43    addToCart(formatProduct(item))
44  }
45
46  return (
47    <div className="min-h-screen p-4 sm:p-6 lg:p-10">
48      { /* Page Header - Responsive typography */ }
49      <h1 className="text-2xl sm:text-3xl lg:text-4xl font-light mb-6 lg:mb-8 text-center sm:text-left">
50        | New Arrivals
51      </h1>
52
53      { /* Responsive Products Grid */ }
54      <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 xl:grid-cols-4 gap-4 sm:gap-6">
55        {data.map((item) => (
56          <div
57            key={item.id}

```

➤ MostPopular.jsx


```

6  /**
7   * MostPopular Component - Responsive
8   * Displays most popular plants from static data with responsive grid layout
9   * Features:
10  * - Responsive grid (1-4 columns based on screen size)
11  * - Mobile-optimized card interactions
12  * - Touch-friendly buttons
13  * - Responsive typography and spacing
14  */
15  const MostPopular = () => {
16    // Cart and navigation hooks
17    const { addToCart } = useCart()
18    const navigate = useNavigate()
19
20    /** ...
25  > const handleProductClick = (item, index) => { ...
27    }
28
29    /**
30    * Handle add to cart with event propagation prevention
31    * @param {Event} e - Click event
32    * @param {Object} item - Plant item to add to cart
33    */
34    const handleAddToCart = (e, item) => {
35      e.stopPropagation()
36      addToCart(item)
37    }
38
39    return (
40      <div className="min-h-screen p-4 sm:p-6 lg:p-10">
41        {/ Page Header - Responsive typography */}
42        <h1 className="text-2xl sm:text-3xl lg:text-4xl font-light mb-6 lg:mb-8 text-center sm:text-left">
43          Most Popular Plants
44        </h1>
45
46        {/ Responsive Plants Grid */}
47        <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 xl:grid-cols-4 gap-4 sm:gap-6">
48          {data.map((item, index) => (
49            <div
50              key={index}
51              className="relative group flex flex-col items-start p-4 cursor-pointer hover:shadow-lg transition-shadow duration-300"
52              onClick={() => handleProductClick(item, index)}
53            >
54              {/ Plant Image - Responsive aspect ratio */}
55  > <div className="w-full aspect-square mb-3 overflow-hidden rounded-lg"> ...
62            </div>
63
64            {/ Plant Information - Responsive text sizing */}
65  > <div className="w-full space-y-1 mb-4"> ...
70            </div>
71
72            {/ Add to Cart Button - Mobile optimized positioning */}
73  > <button ...
78            </button>
79          </div>
80        ))}
81      </div>

```

➤ OutDoor.jsx

```
1  "use client"
2
3  import { useEffect, useState } from "react"
4  import { Link } from "react-router-dom"
5  import { useCart } from "../contexts/CartContext"
6
7  // API key from environment variables
8  const API_KEY = import.meta.env.VITE_PERENUAL_API_KEY
9
10 /**
11  * OutDoorPlant Component - Responsive
12  * Displays outdoor plants fetched from Perenual API with responsive grid layout
13  * Features:
14  * - Responsive grid that adapts from 1 column (mobile) to 4 columns (desktop)
15  * - Mobile-optimized card design
16  * - Touch-friendly buttons and interactions
17  * - Optimized loading states for mobile
18  */
19 const OutDoorPlant = () => {
20   // State management for plants data and loading
21   const [plants, setPlants] = useState([])
22   const [loading, setLoading] = useState(true)
23
24   // Cart context for add to cart functionality
25   const { addToCart } = useCart()
26
27   /**
28    * Fetch plants data from Perenual API on component mount
29    */
30   useEffect(() => {
31     const fetchPlants = async () => {
32       try {
33         const res = await fetch(`https://perenual.com/api/v2/species-list?key=${API_KEY}`)
34         const data = await res.json()
35         setPlants(data.data || [])
36       } catch (err) {
37         console.error("Error fetching plants:", err)
38       } finally {
39         setLoading(false)
40       }
41     }
42
43     fetchPlants()
44   }, [])
45
46   /**
47    * Format API plant data to match cart structure
48    * @param {Object} plant - Raw plant data from API
49    * @returns {Object} Formatted plant object for cart
50    */
51   const formatPlantForCart = (plant) => ({
52     id: plant.id,
53     common_name: plant.common_name || "Unknown Plant",
54     image_url: plant.default_image?.regular_url || "/placeholder.svg",
55     price_inr: Math.floor(Math.random() * 2000) + 500,
56     description: plant.scientific_name?.[0] || "No description available",
57     scientific_name: plant.scientific_name?.[0] || ""
```

```
71 // Cart.jsx
72 // Loading state with responsive design
73 if (loading) {
74   return (
75     <div className="min-h-screen p-4 sm:p-6 lg:p-10">
76       <div className="animate-pulse space-y-6">
77         <div className="h-8 bg-gray-300 rounded w-48"></div>
78         <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 xl:grid-cols-4 gap-4 sm:gap-6">
79           {[...Array(8)].map((_, i) => (
80             <div key={i} className="bg-gray-200 rounded-lg h-80"></div>
81           ))}
82         </div>
83       </div>
84     </div>
85   )
86 }
87
88 return (
89   <div className="min-h-screen p-4 sm:p-6 lg:p-10">
90     {/* Page Header - Responsive typography */}
91     <h1 className="text-2xl sm:text-3xl lg:text-4xl font-light mb-6 lg:mb-8 text-center sm:text-left">
92       Outdoor Plants
93     </h1>
94
95     {/* Responsive Plants Grid */}
96     <div className="grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 xl:grid-cols-4 gap-4 sm:gap-6">
97       {plants.map((item) => (
98         <div key={item.id} className="relative group">
99           {/* Plant Card with Navigation Link */}
100          <Link to={`/plant/${item.id}`}>
101            <div className="flex flex-col items-start p-4 cursor-pointer hover:shadow-lg transition-shadow duration-300 rounded-lg bg-white">
102              {/* Plant Image - Responsive sizing */}
103              <div className="w-full aspect-square mb-3 overflow-hidden rounded-lg">
104                <img
105                  className="w-full h-full object-cover group-hover:scale-105 transition-transform duration-300"
106                  src={item.default_image.regular_url || "/placeholder.svg"}
107                  alt={item.common_name || "Unknown Plant"}
108                  loading="lazy"
109                />
110              </div>
111
112              {/* Plant Information - Responsive text sizing */}
113              <div className="w-full space-y-1">
114                <p className="text-lg sm:text-xl font-medium line-clamp-2">{item.common_name || "No Name"}</p>
115                <p className="text-xs sm:text-sm font-light text-gray-600 line-clamp-1">
116                  {item.scientific_name?.[0] || ""}
117                </p>
118                <p className="font-light text-sm sm:text-base">
119                  <span className="font-medium">From</span> ₹{Math.floor(Math.random() * 2000) + 500}
120                </p>
121              </div>
122            </div>
123          </Link>
124
125          {/* Add to Cart Button - Mobile optimized */}
126          <button
127            onClick={(e) => handleAddToCart(e, item)}

```

➤ PlantCare.jsx

```
Cart.jsx  X  PlantCare.jsx  X
1  "use client"
2  import { plantCareItems } from "../utils/data"
3  import { useCart } from "../contexts/CartContext"
4
5  /**
6   * PlantCare Component
7   * Displays plant care items from static data
8   * Includes add to cart functionality and hover effects
9   */
10 const PlantCare = () => {
11   // Cart context for add to cart functionality
12   const { addToCart } = useCart()
13
14   > /** ...
19   > const formatItemForCart = (item) => ({...
26   > })
27
28   > /**...
33   > const handleAddToCart = (e, item) => {...
37   > }
38
39   return (
40     <div className="h-full p-10 flex flex-col gap-4">
41       <div>
42         <h1 className="text-4xl font-light">Plant Care Items</h1>
43
44         <div>
45           <div className="flex flex-wrap justify-center gap-6">
46             {plantCareItems.map((item, index) => (
47               <div
48                 className="relative group p-4 cursor-pointer w-92 h-[500px] transition-all duration-400 bg-white hover:bg-green-500"
49                 key={index}
50               >
51                 <div>
52                   <img
53                     src={item.imageUrl || "/placeholder.svg"} ...
54                   </img>
55                 </div>
56
57                 <div>
58                   <div className="mt-2 group-hover:opacity-0 transition-opacity duration-300">...
59                   </div>
60
61                   <div>
62                     <div className="absolute inset-0 p-4 flex items-center justify-center opacity-0 group-hover:opacity-100 transition-
63                     </div>
64                     <div className="text-center"> ...
65                     </div>
66                   </div>
67                 </div>
68               </div>
69             ))}
70             </div>
71           </div>
72         </div>
73       </div>
74     )
75   )
76
77   export default PlantCare
78 }
```

➤ Cart.jsx

```

1  "use client"
2  import { useCart } from "../contexts/CartContext"
3  import { useNavigate } from "react-router-dom"
4
5  /**
6   * Cart Component - Responsive
7   * Displays cart items with quantity controls and checkout functionality
8   * Features:
9   * - Responsive layout for mobile and desktop
10  * - Mobile-optimized cart item cards
11  * - Touch-friendly quantity controls
12  * - Responsive checkout flow
13  */
14  const Cart = () => {
15    // Cart context and navigation hooks
16    const { cart, removeFromCart, clearCart, addToCart } = useCart()
17    const navigate = useNavigate()
18
19    /**
20     * Decrease item quantity or remove if quantity is 1
21     * @param {Object} product - Product to decrease quantity
22     */
23    const decreaseQuantity = (product) => {
24      if (product.quantity > 1) {
25        removeFromCart(product.id)
26        addToCart({ ...product, quantity: product.quantity - 1 })
27      } else {
28        removeFromCart(product.id)
29      }
30    }
31
32    /**
33     * Calculate total cart value
34     * @returns {number} Total price of all items in cart
35     */
36    const calculateTotal = () => {
37      return cart.reduce((total, item) => total + item.price_inr * item.quantity, 0)
38    }
39
40    return (
41      <div className="min-h-screen p-4 sm:p-6 lg:p-10">
42        {/* Page Header - Responsive typography */}
43        <h1 className="text-2xl sm:text-3xl lg:text-4xl font-light mb-6 lg:mb-8 text-center sm:text-left">Your Cart</h1>
44
45        {/* Empty Cart State */}
46        {cart.length === 0 ? (
47          <div className="text-center py-12 lg:py-20">
48            <div className="max-w-md mx-auto">
49              <p className="text-gray-500 text-lg mb-6">Your cart is empty.</p>
50              <button
51                onClick={() => navigate("/")}
52                className="w-full sm:w-auto bg-emerald-600 text-white px-8 py-3 rounded-lg hover:bg-emerald-700 tr
53              >
54                Continue Shopping
55            </button>
56          </div>
57        </div>

```

```

59 <div className="max-w-6xl mx-auto">
60   {/* Cart Items List - Responsive layout */}
61   <div className="space-y-4 lg:space-y-6 mb-8">
62     {cart.map((item) => {
63       <div
64         key={item.id}
65         className="flex flex-col sm:flex-row items-start sm:items-center gap-4 sm:gap-6 p-4 sm:p-6 bg-gray-50 rounded-lg">
66       <div
67         className="w-full sm:w-32 lg:w-40 aspect-square sm:aspect-auto sm:h-32 lg:h-40 flex-shrink-0">
68         <img
69           src={item.image_url || "/placeholder.svg"}
70           alt={item.common_name}
71           className="w-full h-full object-cover rounded-lg"
72         />
73       </div>
74       <div
75         className="flex-1 w-full sm:w-auto">
76         <h3 className="text-lg sm:text-xl font-medium mb-2">{item.common_name}</h3>
77         <p className="text-gray-700 text-sm mb-2 line-clamp-2">
78           {item.description || "No description available"}
79         </p>
80         <div className="space-y-1">
81           <p className="font-light text-gray-700 text-sm sm:text-base">
82             <span className="font-medium">Price:</span> ₹{item.price_inr?.toLocaleString()}
83           </p>
84           <p className="font-light text-gray-700 text-sm sm:text-base">
85             <span className="font-medium">Subtotal:</span> ₹
86             {(item.price_inr * item.quantity)?.toLocaleString()}
87           </p>
88         </div>
89       </div>
90     </div>
91     </div>
92   </div>
93   {/* Quantity Controls and Remove Button - Responsive layout */}
94   <div className="flex flex-row sm:flex-col items-center gap-4 w-full sm:w-auto">...
119 </div>
120 </div>
121 </div>
122 </div>
123
124   {/* Cart Summary - Responsive layout */}
125   <div className="bg-gray-50 p-4 sm:p-6 rounded-lg mb-6">...
138 </div>
139
140   {/* Action Buttons - Responsive layout */}
141   <div className="flex flex-col sm:flex-row justify-between gap-4">...
162 </div>
163 </div>
164 </div>
165 </div>
166 </div>
167 }
168
169 export default Cart
170

```

➤ ProductDetail.jsx

```
1  "use client"
2
3  import { useEffect, useState } from "react"
4  import { useLocation, useParams, useNavigate } from "react-router-dom"
5  import { useCart } from "../contexts/CartContext"
6
7  // API key from environment variables
8  const API_KEY = import.meta.env.VITE_PERENUAL_API_KEY
9
10 /**
11  * ProductDetail Component
12  * Displays detailed information about a specific plant
13  * Handles both API data (outdoor plants) and static data (other categories)
14  */
15 const ProductDetail = () => {
16   // Router hooks for navigation and state
17   const { state } = useLocation()
18   const plantFromState = state?.plant || null
19   const { id } = useParams()
20   const navigate = useNavigate()
21
22   // Cart context for add to cart functionality
23   const { addToCart } = useCart()
24
25   // Component state management
26   const [plant, setPlant] = useState(plantFromState || null)
27   const [loading, setLoading] = useState(!plantFromState)
28   const [error, setError] = useState(null)
29
30   /**
31   * Fetch plant details from API if not provided via state
32   * This handles outdoor plants that come from API
33   */
34   useEffect(() => {
35     if (!plantFromState && id) {
36       setLoading(true)
37       fetch(`https://perenual.com/api/v2/species/details/${id}?key=${API_KEY}`)
38         .then((res) => res.json())
39         .then((data) => {
40           // Format API response to match expected structure
41           setPlant({
42             id: data.id,
43             common_name: data.common_name,
44             description: data.scientific_name?.[0] || "No description available",
45             price_inr: Math.floor(Math.random() * 2000) + 500, // Generate random price
46             image_url: data.default_image?.regular_url || "/placeholder.svg",
47             details: data.description || "No additional details available.",
48             scientific_name: data.scientific_name?.[0] || "",
49           })
50         })
51       .catch(() => setError("Failed to load plant details. "))
52       .finally(() => setLoading(false))
53     }
54   }, [id, plantFromState])
55
56   /**
57   * Handle add to cart functionality
```

```

112 <div className="max-w-6xl mx-auto bg-white shadow-lg rounded-lg overflow-hidden text-left md:text-right">
113   {/* Product Image Section */}
114   <div className="md:w-1/2 flex justify-center items-center bg-gray-100 p-6">
115     <img
116       src={plant.image_url || plant.image}
117       alt={plant.common_name || plant.name}
118       className="rounded-lg shadow-md max-h-[450px] object-cover"
119     />
120   </div>
121
122   {/* Product Information Section */}
123   <div className="md:w-1/2 p-6 flex flex-col justify-between">
124     <div>
125       {/* Product Title */}
126       <h1 className="text-3xl md:text-4xl font-bold text-gray-800">{plant.common_name || plant.name}</h1>
127
128       {/* Product Subtitle/Scientific Name */}
129       <p className="text-green-600 font-medium mt-2">
130         {plant.scientific_name || plant.desc || plant.description}
131       </p>
132
133       {/* Product Description */}
134       <p className="mt-4 text-gray-600 leading-relaxed">
135         {plant.details || plant.description || "No additional details available."}
136       </p>
137
138       {/* Price Section */}
139       <div className="mt-6 border-t border-gray-200 pt-4">
140         <p className="text-2xl font-semibold text-gray-900">
141           ₹{(plant.price_inr || Number(plant.price)).toLocaleString()}
142         </p>
143       </div>
144     </div>
145
146     {/* Action Buttons */}
147     <div className="mt-6 flex gap-4">
148       <button
149         onClick={handleAddToCart}
150         className="flex-1 bg-green-600 text-white py-3 rounded-lg text-lg font-medium shadow hover:bg-green-700"
151       >
152         Add to Cart
153       </button>
154       <button
155         onClick={() => navigate(-1)}
156         className="flex-1 bg-gray-200 text-gray-800 py-3 rounded-lg text-lg font-medium shadow hover:bg-gray-300"
157       >
158         Back
159       </button>
160     </div>
161   </div>
162 </div>
163 </div>
164 )
165 }
166
167 export default ProductDetail
168

```

➤ App.jsx

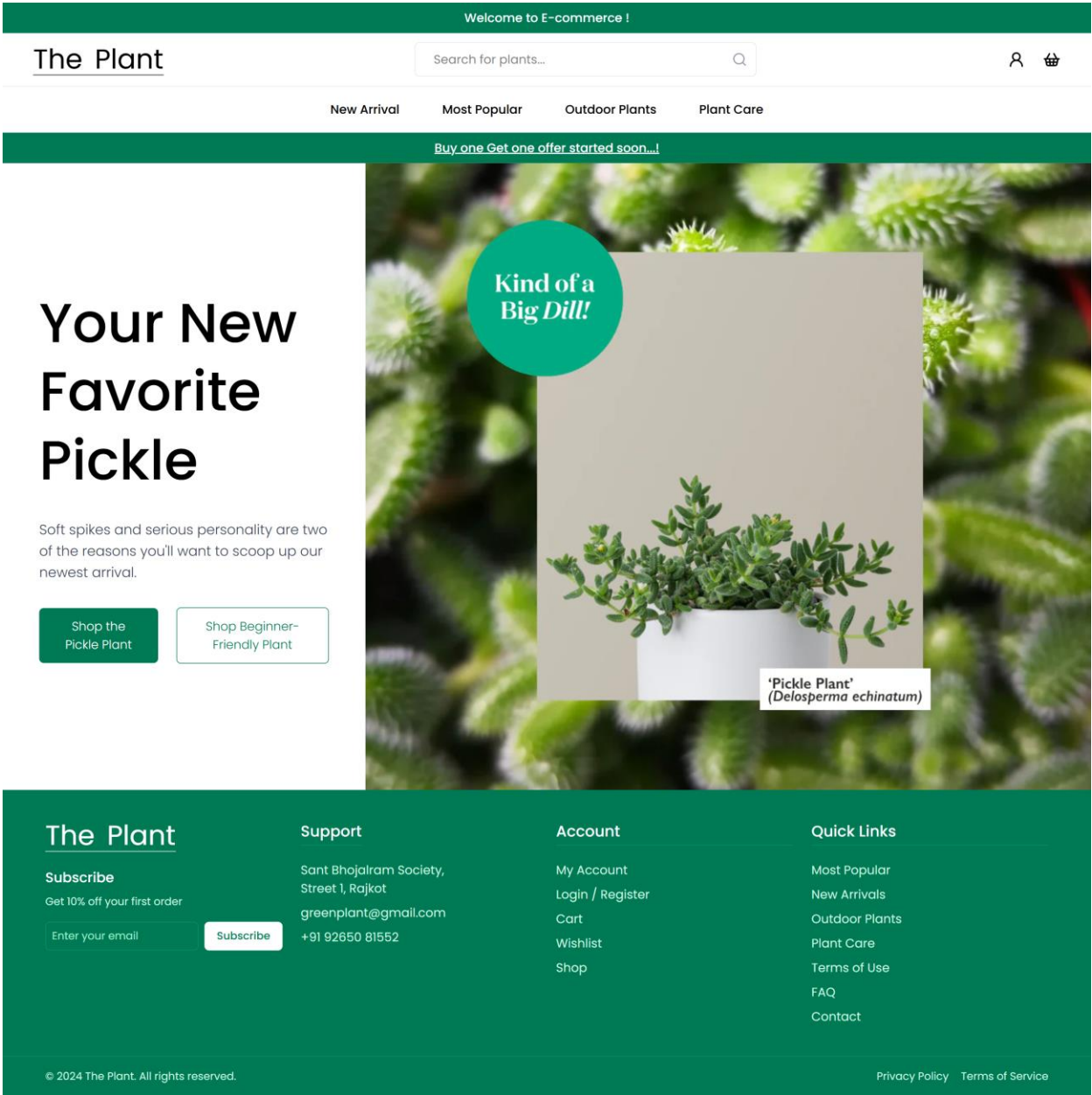

```
Cart.jsx  App.jsx M X
1 import React from "react";
2 import { createBrowserRouter, RouterProvider } from "react-router-dom";
3 import Layout from "../components/Layout";
4 import Home from "../pages/Home";
5 import MostPopular from "../pages/MostPopular";
6 import NewArrival from "../pages/NewArrival";
7 import PlantCare from "../pages/PlantCare";
8 import OutDoorPlant from "../pages/OutDoorPlant";
9 import ProductDetail from "../pages/ProductDetail";
10 import { CartProvider } from "../contexts/CartContext";
11 import Cart from "../pages/Cart";
12
13 const router = createBrowserRouter([
14   {
15     path: "/",
16     element: <Layout />,
17     children: [
18       {
19         path: "/",
20         element: <Home />,
21       },
22       {
23         path: "/New-Arrival",
24         element: <NewArrival />,
25       },
26       {
27         path: "/Popular",
28         element: <MostPopular />,
29       },
30       {
31         path: "/Cart",
32         element: <Cart />,
33       },
34       {
35         path: "/Out-Door-Plant",
36         element: <OutDoorPlant />,
37       },
38       {
39         path: "/plant-Care",
40         element: <PlantCare />,
41       },
42       {
43         path: "/plant/:id", // Dynamic product detail route
44         element: <ProductDetail />,
45       },
46     ],
47   },
48 ]);
49
50 const App = () => {
51   return (
52     <CartProvider>
53     <RouterProvider router={router} />
54     </CartProvider>
55   );
56 };
57
```

➤ CartContext.jsx

```
3 import { createContext, useContext, useState } from "react"
4
5 // Create Cart Context for global state management
6 const CartContext = createContext()
7
8 /**
9  * CartProvider Component
10  * Provides cart functionality throughout the application
11  * Manages cart state including add, remove, and clear operations
12  */
13 export const CartProvider = ({ children }) => {
14   // Cart state - array of products with quantities
15   const [cart, setCart] = useState([])
16
17   /**
18    * Add product to cart
19    * If product exists, increment quantity
20    * If new product, add with quantity 1
21    * @param {Object} product - Product object to add to cart
22    */
23   const addToCart = (product) => { ...
24
25
26   /**
27    * Remove product from cart completely
28    * @param {string|number} id - Product ID to remove
29    */
30   const removeFromCart = (id) => {
31     setCart((prev) => prev.filter((item) => item.id !== id))
32   }
33
34   /** ...
35
36   const clearCart = () => {
37     setCart([])
38   }
39
40   /** ...
41
42   const getCartItemCount = () => {
43     return cart.reduce((total, item) => total + item.quantity, 0)
44   }
45
46   /** ...
47
48   const getCartTotal = () => {
49     return cart.reduce((total, item) => total + item.price_inr * item.quantity, 0)
50   }
51
52   return (...
53 )
54 }
55
56 /**
57  * Custom hook to use cart context
58  * @returns {Object} Cart context value
59  */
60 export const useCart = () => useContext(CartContext)
61
62
```

- Design ScreenShots (UI)

➤ Home





➤ NewAriival

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Plant Care

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New Arrivals




Olive Tree

Our Most Popular Plant

From ₹1,200

Add to Cart




Mermaid Tail Cactus

Rare Plant

From ₹2,300

Add to Cart




Fairy Castle Cactus

Premium Plant

From ₹2,000

Add to Cart




African Milk Tree

Our Most Popular Plant

From ₹2,200

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Mermaid Tail Cactus

Rare Plant

From ₹1,000

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Lemon Bush

From ₹10,000


Add to Cart



Mandarin Tree

From ₹24,900


Add to Cart



Large Jasmine

From ₹24,800


Add to Cart



Mc Colleys

From ₹24,070


Add to Cart



Blue berry

From ₹830


Add to Cart



Philodendron plant

From ₹15,770


Add to Cart



Jasmine pot

From ₹9,960


Add to Cart



Black Berry

From ₹18,260

Add to Cart



Thronless berry

From ₹26,560

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Your Cart



Olive Tree

The Olive Tree is a hardy, drought-tolerant plant known for its silvery-green leaves and Mediterranean charm.

Price: ₹1,200

Subtotal: ₹1,200

- 1 +

Remove

Total Items:

1

Total Amount:

₹1,200

Clear Cart

Continue Shopping

Proceed to Checkout

Welcome to E-commerce !

The Plant

Search for plants...

1


New Arrival

Most Popular

Outdoor Plants

Plant Care

Buy one Get one offer started soon...!



Mandarin Tree

A sacred fig tree known for longevity and worshipped in many cultures.

A sacred fig tree known for longevity and worshipped in many cultures.

₹24,900

Add to Cart

Back

The Plant

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Get 10% off your first order

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- **GitHub Repository**

Link :- <https://github.com/UmangDhandhukiya/Internship-Project>

- **Challenges**

This project focuses on designing and developing a complete e-commerce platform that allows users to browse, search, and purchase products online. The goal is to deliver a **secure, fast, and user-friendly shopping experience** across mobile, tablet, and desktop devices.

- **References**

The_Sill e-Commerce :- <https://thesill.com>