



RAJALAKSHMI
ENGINEERING COLLEGE
An AUTONOMOUS Institution
Affiliated to ANNA UNIVERSITY, Chennai

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Floral Fiesta

CS19621 – PROFESSIONAL READINESS FOR INNOVATION,
EMPLOYABILITY AND ENTREPRENEURSHIP

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Abstract

Floral Fiesta is an innovative mobile app that enhances the buying and selling experience for plant enthusiasts by connecting vendors and customers through location-based data. Utilizing GPS, the app allows users to easily find nearby plant vendors, making plant purchases more convenient. Its sophisticated delivery system ensures safe transportation of plants by matching orders with appropriate delivery agents, addressing concerns about potential damage during transit. In addition to its marketplace functions, Floral Fiesta serves as a comprehensive resource for plant care. It offers detailed information on the specific needs of various plants, such as water, sunlight, and soil type requirements. The user-friendly interface and extensive features not only facilitate transactions but also foster a community of informed plant lovers. By combining market accessibility, reliable delivery, and educational resources, Floral Fiesta supports users throughout their entire plant care journey, ensuring a positive experience and successful plant maintenance.



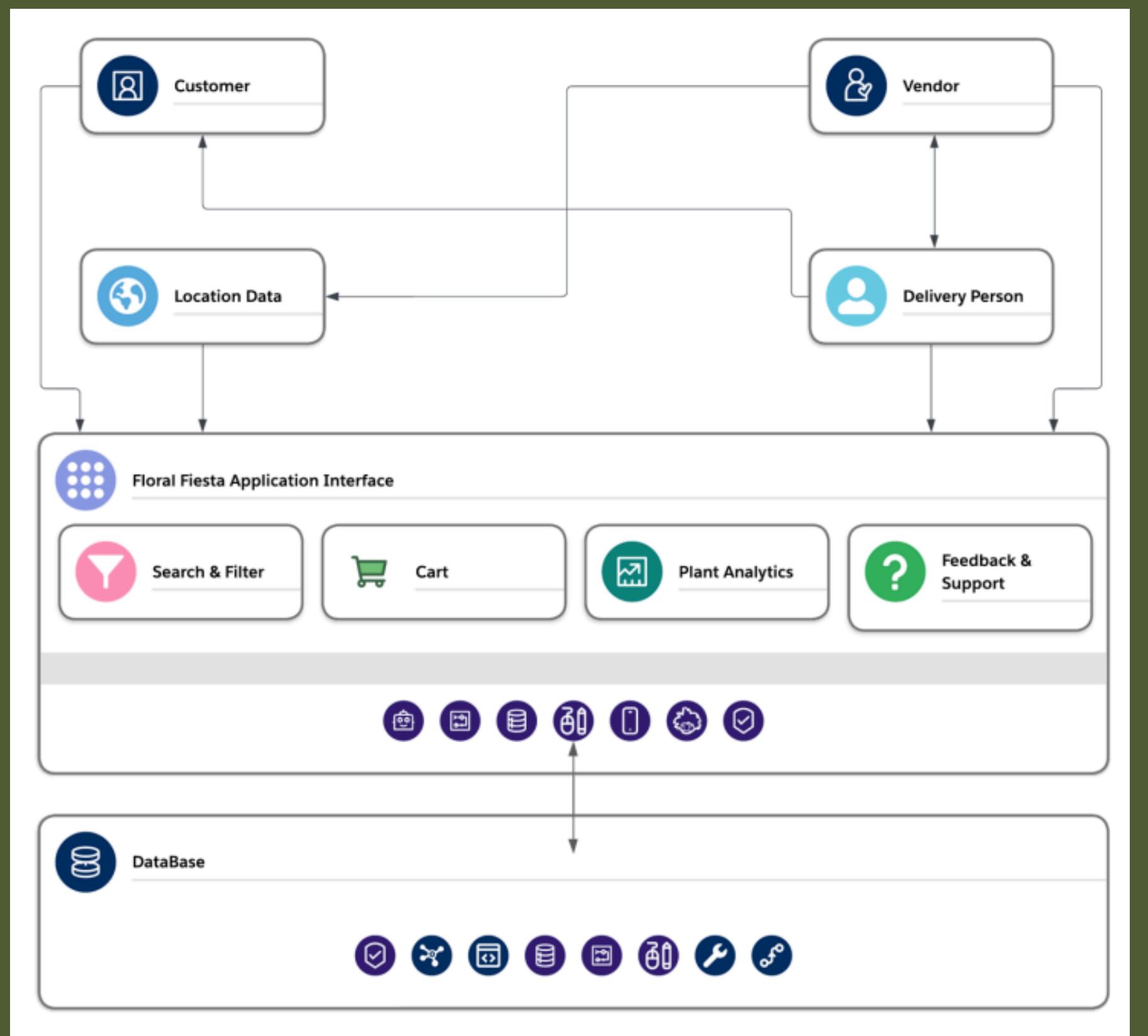


Introduction

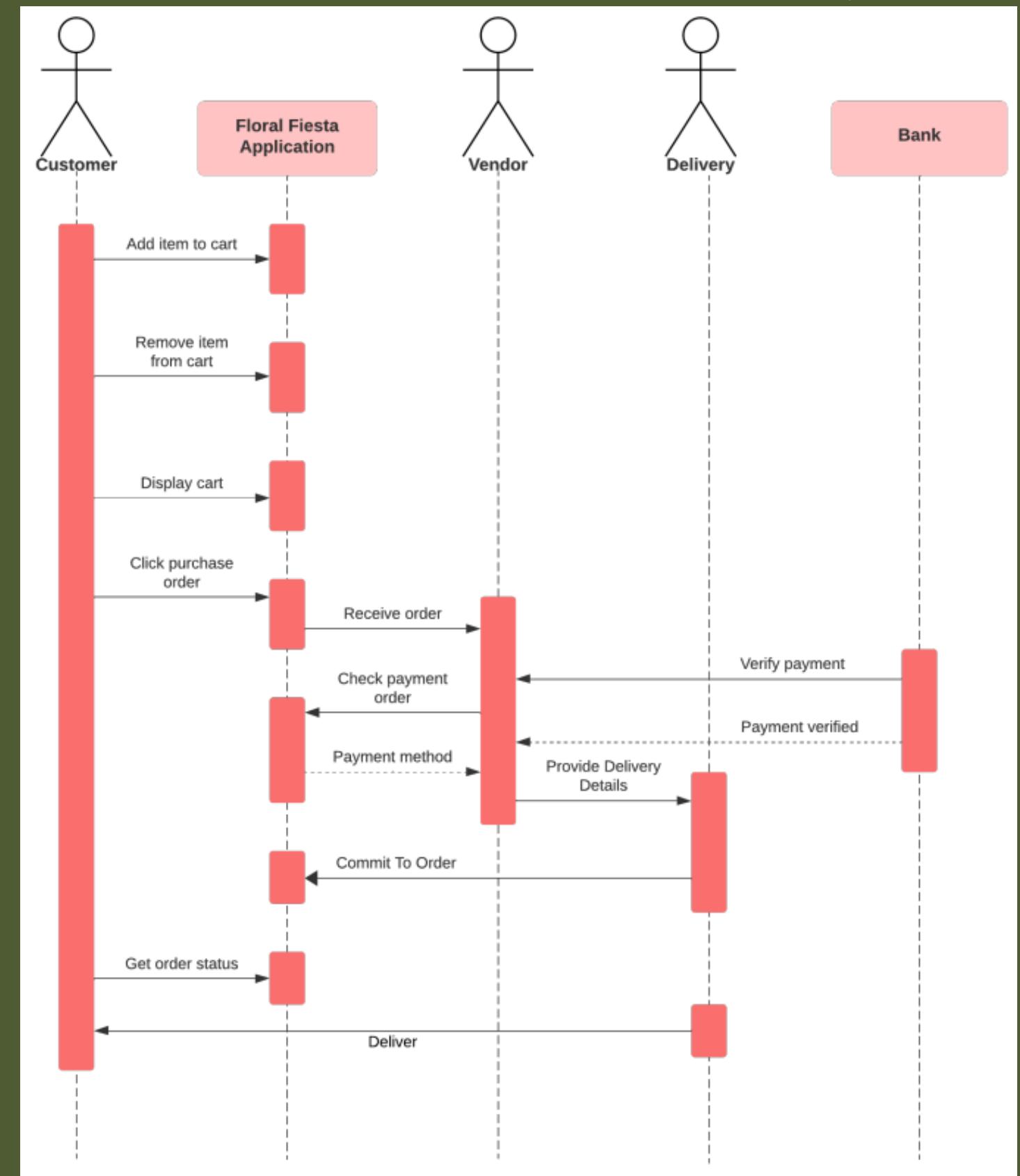
Floral Fiesta is an innovative plant-selling app that transforms the interaction between plant vendors and customers, making buying and selling plants more efficient and enjoyable. Using location-based data, the app helps customers easily find nearby plant vendors, supporting local businesses and ensuring faster access to a diverse range of plants. This feature significantly enhances the shopping experience by allowing users to quickly locate and purchase desired products. A core functionality of Floral Fiesta is its advanced delivery system, which intelligently matches each plant order with the most appropriate delivery agent. This process considers various factors like route, delivery speed, and handling requirements, ensuring plants are transported safely and arrive in excellent condition. Beyond transactions and reliable deliveries, the app serves as an educational platform, offering detailed plant care information on watering schedules, sunlight exposure, soil types, and other critical needs.



Architectural Diagram



Sequence Diagram



Module Description

LOCATION BASED FILTER

The Location Based Filter module is a sophisticated feature within Floral Fiesta that harnesses cutting-edge geolocation technology to revolutionize the plant browsing experience. This module operates on the principle of proximity, allowing users to effortlessly discover plant vendors and offerings in their immediate vicinity. By leveraging precise location data, users can access a curated selection of plants available from vendors nearby, eliminating the need for extensive manual searches and enhancing convenience in plant procurement. One of the key advantages of the Location Based Filter module is its ability to provide a tailored and personalized browsing experience for users. By analysing the user's current geographical location, the module delivers plant recommendations that are specifically suited to the local climate and environmental conditions. For example, users residing in regions with specific weather patterns or soil types will receive plant suggestions that thrive in such conditions, ensuring greater success and satisfaction with their plant purchases. Furthermore, the Location Based Filter module empowers users with the flexibility to refine their plant search based on various criteria such as plant type, size, and price range, all within the context of their current location. This level of customization allows users to find plants that meet their specific preferences and requirements while still benefiting from the convenience of nearby vendor options. Overall, the Location Based Filter module enhances the plant buying experience by simplifying the search process, providing relevant recommendations, and fostering a deeper connection between users and their local plant community.

Module Description

VENDORS AND DELIVERY AGENTS

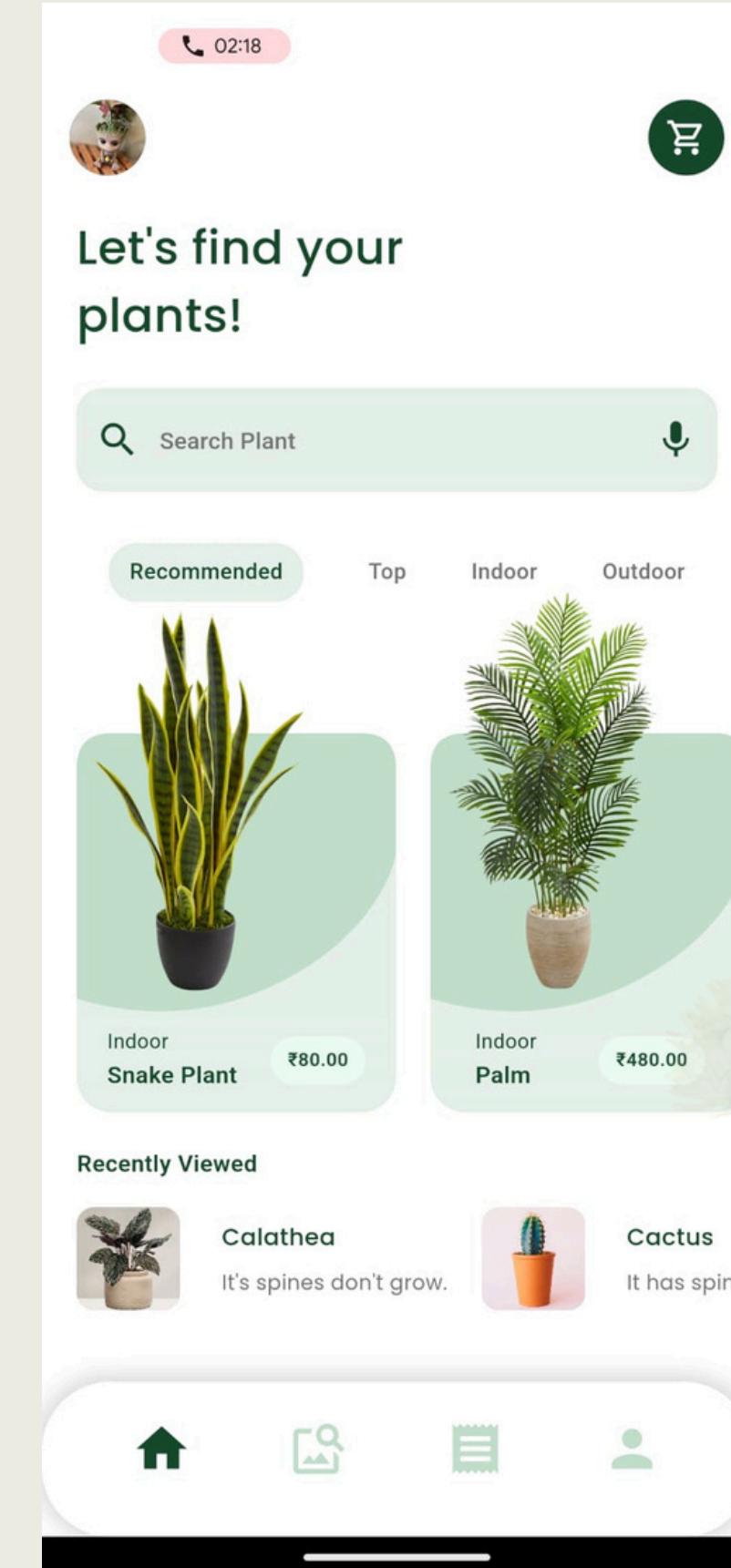
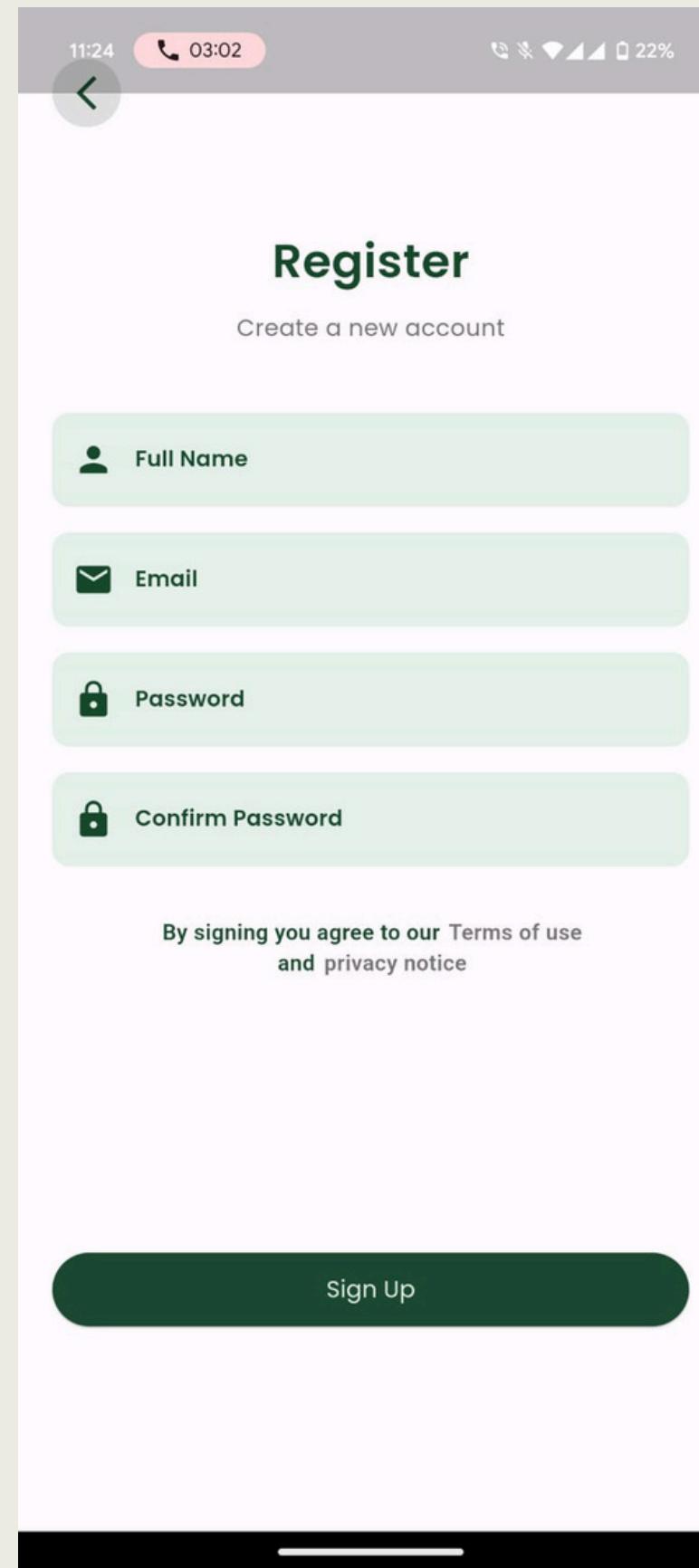
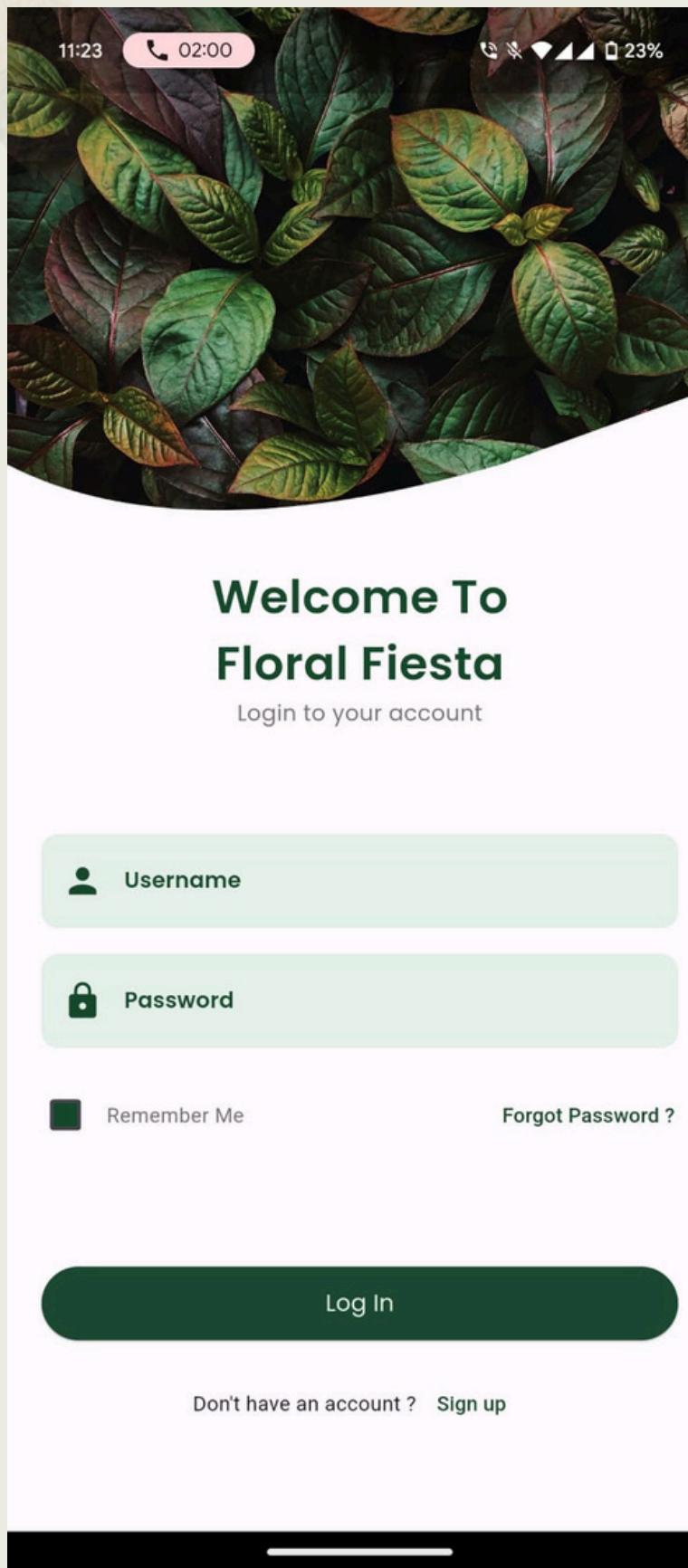
At the heart of Floral Fiesta lies the Vendors and Delivery Agents module, a dynamic platform that facilitates seamless interactions between plant vendors and customers. This module serves as a virtual marketplace where vendors can showcase their diverse range of plant offerings and engage directly with potential buyers. Through vendor profiles, users gain access to detailed information about each vendor, including their plant inventory, pricing, and customer reviews, enabling informed decision-making and fostering transparency in transactions. Additionally, the Vendors and Delivery Agents module plays a crucial role in managing the logistics of plant delivery. When a purchase is made, the module automatically identifies and coordinates with the most suitable delivery agent based on factors such as proximity to the vendor's location and availability. This seamless integration of delivery logistics ensures that plants are transported safely and efficiently from the vendor to the customer, minimizing delays and enhancing overall customer satisfaction. Moreover, the Vendors and Delivery Agents module promotes trust and reliability within the Floral Fiesta community by implementing robust measures to safeguard the integrity of transactions. Users can track the status of their orders in real-time, receive notifications about delivery updates, and provide feedback on their purchasing experience, thereby fostering accountability and accountability among vendors and delivery agents alike.

Module Description

PLANT REQUIREMENTS FEED

The Plant Requirements Feed module serves as a comprehensive resource within Floral Fiesta, providing users with invaluable insights into the care requirements of various plant species. Through a vast database of plant care information, users can access detailed guidelines on factors such as watering schedules, sunlight preferences, soil conditions, and pest management strategies, among others. This wealth of knowledge empowers users to make informed decisions when selecting plants, ensuring compatibility with their living environment and personal care preferences. One of the key features of the Plant Requirements Feed module is its user-friendly interface, which allows users to easily search for specific plants or browse through curated collections based on categories such as indoor plants, outdoor plants, and rare species. Additionally, the Plant Requirements Feed module offers personalized plant care recommendations based on user preferences and environmental factors. By inputting details such as their location, climate zone, and available sunlight, users can receive tailored suggestions for plants that are well-suited to their unique circumstances. This level of customization ensures that users can confidently select plants that not only match their aesthetic preferences but also thrive in their specific living environment. Furthermore, the Plant Requirements Feed module fosters a sense of community among users by providing opportunities for knowledge sharing and collaboration. Users can engage in discussions, ask questions, and share their own experiences and tips for plant care, creating a vibrant and supportive ecosystem of plant enthusiasts within the Floral Fiesta community.

Implementation



Implementation

The image displays two screenshots of a mobile application interface for a plant store.

Screenshot 1: Product Detail Screen

- Header:** Shows the time (11:24), battery level (22%), signal strength, and a pink notification bar icon.
- Product Image:** A large image of a potted palm plant.
- Title:** "Palm" in bold green text.
- Price:** ₹480.00.
- Ratings:** Five yellow stars.
- Quantity Selector:** A green button with minus, one, and plus icons.
- About Section:** Describes the plant as a snake plant, noting it's a resilient succulent that can grow anywhere between 6 inches to several feet. It also mentions health benefits like filtering indoor air and removing toxic pollutants.
- Metrics:** Height (8.2"), Humidity (52%), and Width (4.2") each with a circular icon.
- Buttons:** A green shopping cart icon and a purple "BUY NOW" button.

Screenshot 2: My Cart Screen

- Header:** Shows the time (11:24), battery level (22%), signal strength, and a pink notification bar icon.
- Title:** "My Cart" in bold green text.
- Items:** Two items listed:
 - Calathea:** Description: "Its spines don't grow." Price: ₹200.00. Quantity: 2.
 - Cactus:** Description: "Its spines don't grow." Price: ₹100.00. Quantity: 1.
- Total Subtotal:** ₹300.00.
- Shipping Cost:** ₹50.00.
- Total:** ₹350.00.
- Buttons:** A purple "Place Your Order" button.

Conclusion & Future Enhancement

In conclusion, Floral Fiesta has successfully transformed the plant buying and selling experience by providing a user-friendly platform for vendors and customers to interact and transact. Through the utilization of location-based data, the application offers efficient plant filters and vendor discovery, ensuring that users can easily find the plants they desire from nearby sellers. Moreover, the seamless coordination of delivery agents ensures the timely and secure transportation of plants to customers' doorsteps. Additionally, the app's provision of comprehensive plant care information, including watering schedules and sunlight requirements, empowers users to make informed purchasing decisions and nurture their plants effectively post-purchase. This immersive feature would provide users with a more interactive and engaging shopping experience. Furthermore, the application could explore the implementation of community^{WRITE TO US}driven features such as plant swapping or sharing, enabling users to connect with fellow plant enthusiasts and expand their plant collections through collaborative efforts. Moreover, expanding the app's database to include a wider variety of plant species, including rare and exotic plants, would cater to the diverse interests of users and further establish Floral Fiesta as a comprehensive destination for plant enthusiasts. Finally, enhancing the app's social features, such as user profiles, forums, and live events, would foster a stronger sense of community and engagement among users, encouraging knowledge sharing and collaboration in the world of plant care. Overall, these future enhancements hold the potential to elevate Floral Fiesta to new heights and solidify its position as the premier plant selling application in the market.





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Thank You 

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