

CS 795/895 –Human Computer Interaction, HW3

Name: Sivarama Krishna Sirangu

UIN: 01217611

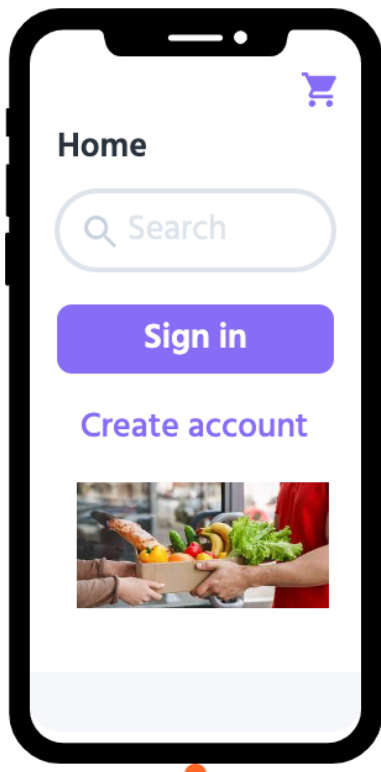
Interface name: Online Grocery Delivery Application

Introduction: Online groceries delivery applications are digital platforms that allow customers to purchase groceries and have them delivered to their doorstep. With the growing popularity of online shopping, the use of grocery delivery applications has become increasingly popular, especially during the COVID-19 pandemic.

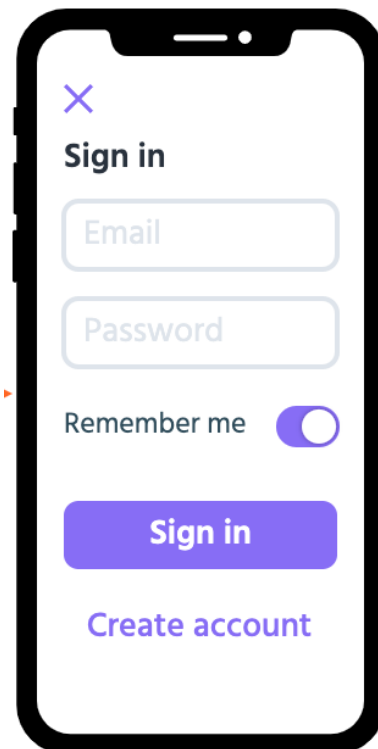
These applications allow users to browse through a wide range of products and choose the ones they need. The products are usually categorized according to type, brand, and price. Customers can also use the search function to find specific items they are looking for.

Wireframes for this Interface look like:

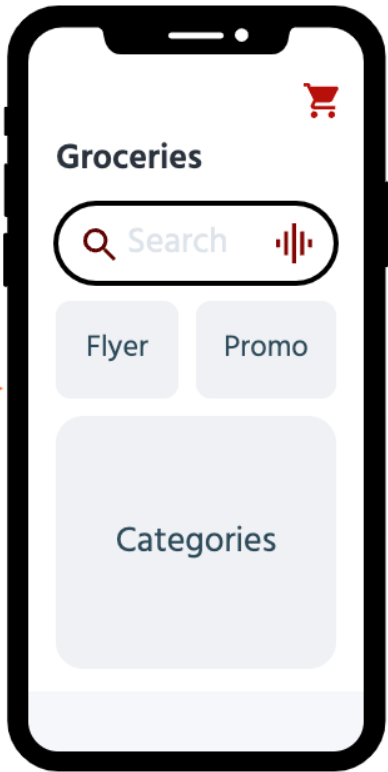
Home Screen of the Interface



Sign in & Create Account Page



Shopping Page

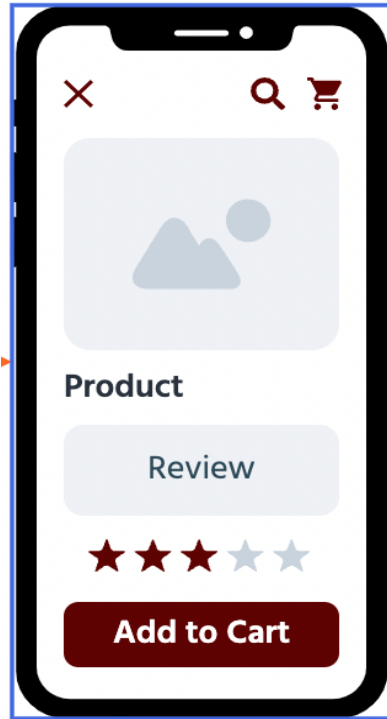
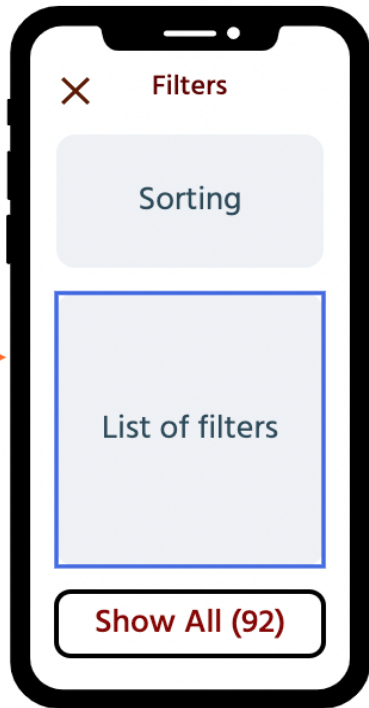


List of items Page

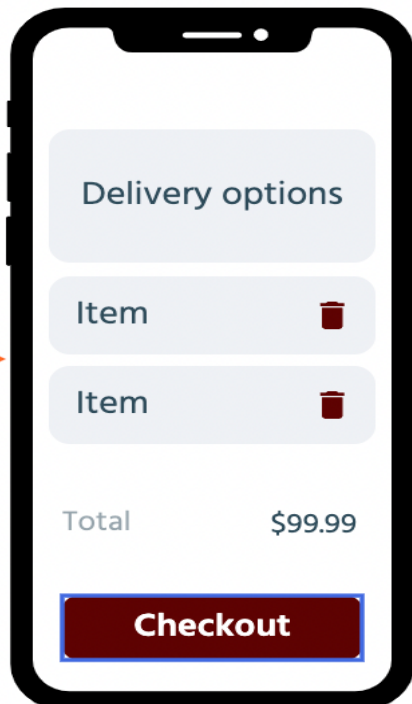


Filter Settings Page

Item Details



Delivery Details and Checkout

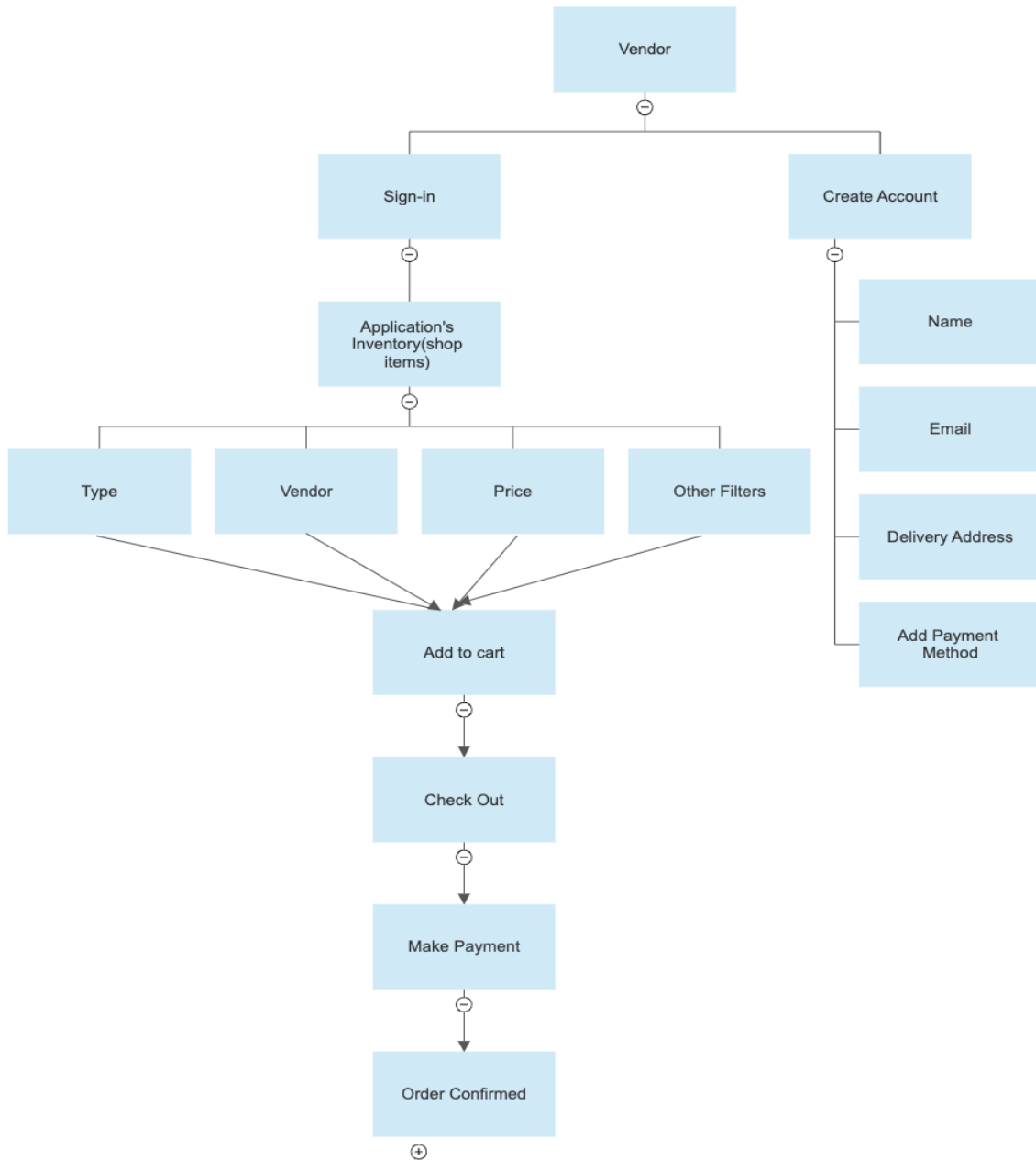


Interfaces for online groceries delivery applications typically consist of a mobile application and/or a web application. The interfaces are designed to be user-friendly, intuitive, and responsive to different devices and screen sizes. Here are some common interfaces and features of online groceries delivery applications:

1. **Home Screen:** The home screen is the first screen that the user sees when they open the application. It usually displays a search bar, categories of products, deals, and promotions.
2. **Sign-in/Create Account:** The existing user can sign into their account else a new user can create a new account to save their history which further helps in reducing the shopping time for the next time.
3. **Shopping Page:** This helps in browsing all the shopping items available from different vendors.
4. **Product Listings:** The product listing screen displays products available for purchase. Users can filter products by category, brand, price, and rating. Product listings may also display images, descriptions, and reviews of the product.
5. **Shopping Cart:** The shopping cart is a virtual shopping bag where users can add items for purchase. Users can add, remove, or modify the quantity of items in their cart.
6. **Checkout:** The checkout screen displays the total amount due and prompts the user to choose a delivery date and time. Users can also choose a payment method and enter billing information.
7. **Order Tracking:** The order tracking feature allows users to track the status of their order in real-time. It may include a map with the driver's location and estimated time of delivery.
8. **Account Management:** The account management screen allows users to manage their account information, view their order history, and track loyalty points.
9. **Customer Support:** The customer support feature allows users to contact customer service through a chat or messaging interface.

Overall, the interfaces of online groceries delivery applications should be easy to navigate, visually appealing, and provide a seamless user experience from browsing products to finalizing orders.

Hierarchical task analysis (HTA) diagram:

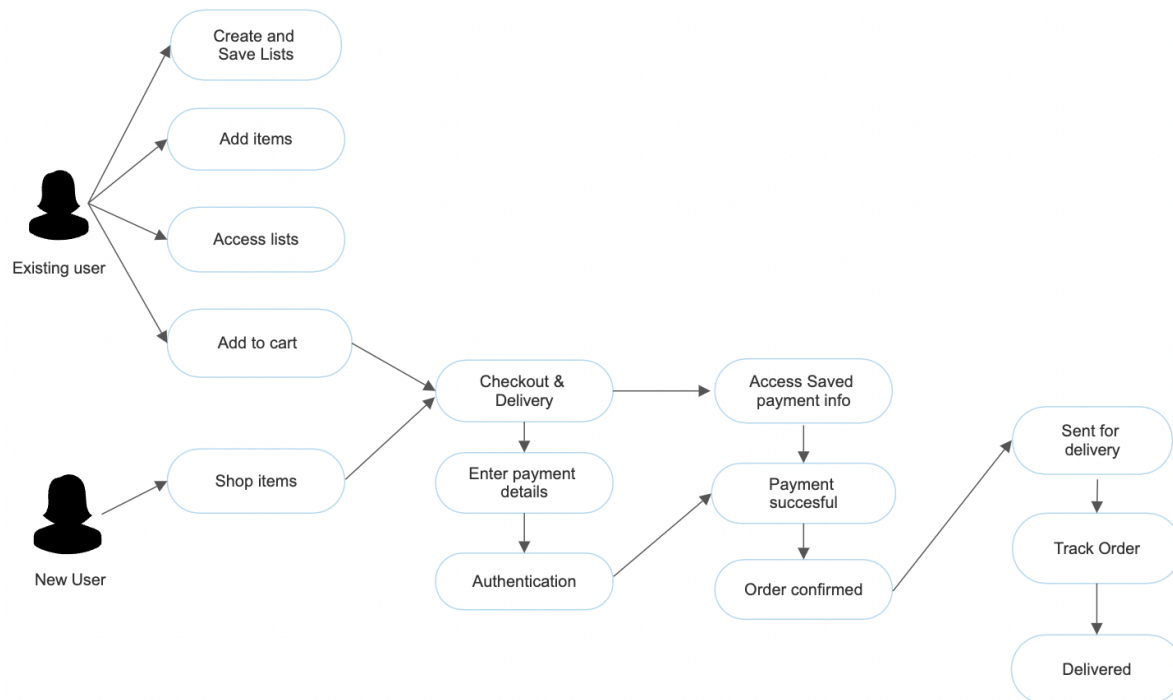


An online groceries delivery application typically works through a series of steps:

Firstly, the users must first register and create an account with the application. This involves providing personal details, such as name, email, and delivery address. Then the users can browse through the application's inventory and select the products they wish to purchase. The products are categorized by type, brand, and price, and users can use the search function to find specific items. Once the users add the selected products to their shopping cart, and the application calculates the total cost of the order, including taxes, delivery fees, and any applicable discounts or promotions. Then comes the checkout process, where they enter their payment and billing information. They can also select a delivery date and time. Now, there will be series of delivery steps that occurs internally after the application forwards the order to the nearest store or warehouse, where staff members select and pack the items for delivery. A driver picks up the order from the store or warehouse and delivers it to the user's specified delivery address. Users can track the status of their order through the application. After delivery, users may provide feedback on the quality of the products and the delivery experience. The application may use this feedback to improve its services.

Overall, online groceries delivery applications offer a convenient way for users to purchase groceries without leaving their homes. The application streamlines the ordering and delivery process, providing a hassle-free experience for the user.

USE CASE DIAGRAM:



In this use case idea for an online grocery delivery application could be a feature that allows customers to create and save shopping lists. Here's how it could work:

1. **Create and Save Lists:** Customers can create and save shopping lists within the application. Lists can be created based on categories such as weekly groceries, party supplies, or specific recipes.
2. **Add Items:** Customers can add items to their lists by searching the application's inventory or scanning the barcode of a product. They can also add notes or quantities for each item.
3. **Access Lists:** Customers can access their saved lists at any time and edit them as needed.
4. **Add to Cart:** When customers are ready to place an order, they can add the items from their list to their shopping cart with one click.
5. **Checkout and Delivery:** Customers can proceed to checkout and select a delivery date and time. The order is then processed and delivered to the customer's specified delivery address.
6. **Repeat Orders:** Customers can easily repeat previous orders or saved lists to simplify the ordering process.

This use case idea offers a convenient and time-saving solution for customers who regularly purchase the same products or have a set list of items they need for specific occasions. The ability to create and save shopping lists within the application allows for a more efficient ordering process and reduces the likelihood of forgetting items. Additionally, the repeat order feature simplifies the process even further for customers who frequently purchase the same items.

Different Personas of people who are using these interfaces:

