

Smart Checkout System

18BCE0159

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Abstract and Aim:

- The product aims to minimize and automate the checkout process for buying and maintains digital records for transactions rather than maintaining bills for each buyer.
- We will be creating both mobile and web application. The owner would have access to dashboard where he can manage his products, while adding a product QR Code would be generated and he can take printout to stick it on the counter. They will be following a canteen type system.
- The buyer needs to carry just a smartphone to buy the product. Whenever a user wants to buy a product he can scan the code and get the details through a mobile app. He will get an option to buy and if customer clicked yes, the amount of product will be added to his credits. Customer can pay the price through online mode (UPI, debit card etc).Qrcode will be secured through token authentication from API. So not anyone without login can buy the product.

Problem statement:

- Imagine if you could shop at your local supermarket, without having to stand in a queue at checkouts to pay for your groceries, local products etc.
- Dealers and small store owners don't have checkouts where a customers can buy. It is all managed and maintained by the owner.
- The product aims to minimize and automate the checkout process for buying and maintains digital records for transactions rather than maintaining bills for each buyer.

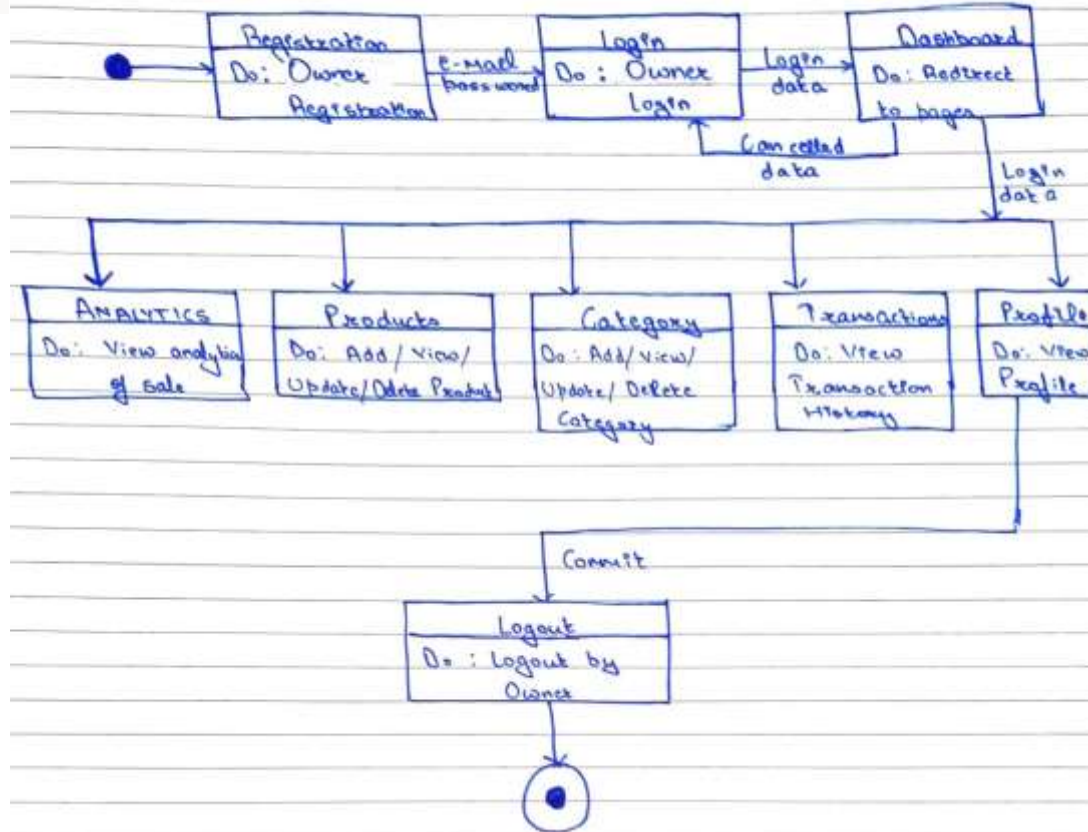
Reason for chosen this topic?

- This is useful for small scale business and local retail shops especially during the time of pandemic this will help in maintain social distancing and contactless buying.
- Through data analytics, shopkeeper can know in advance that which item will be in more demand in which season. Through which you plan according to that information.
- This will also allow the owner to understand the customers and their needs and help recognise loyal and recurring customers. They can then use this to give them special discounts and offers to reward their loyalty. This will also allow them to retain customers by giving them comeback offers.

Process Flow Diagram

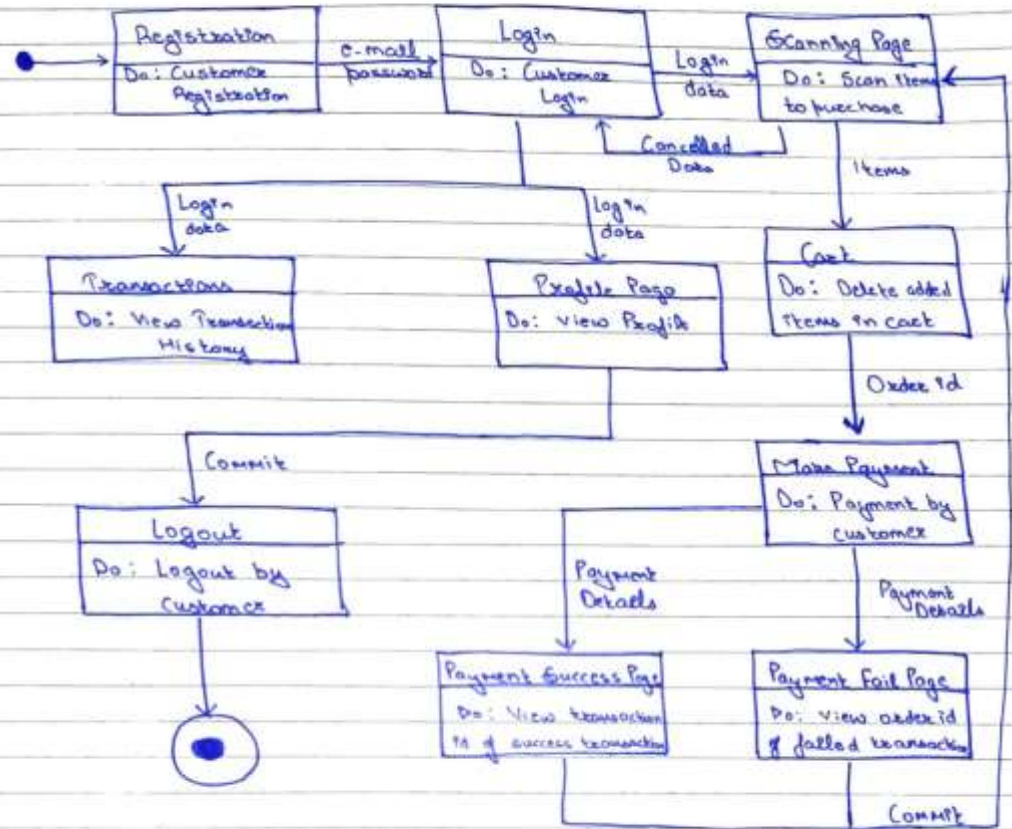
Web Interface

STATE CHART DIAGRAM (OWNER):



Mobile Interface

STATE CHART DIAGRAM (CUSTOMER):



Modules

1. For website

1. Login Page
2. Dashboard Page
3. Products Page
4. Categories Page
5. Profile Page
6. Transaction Page

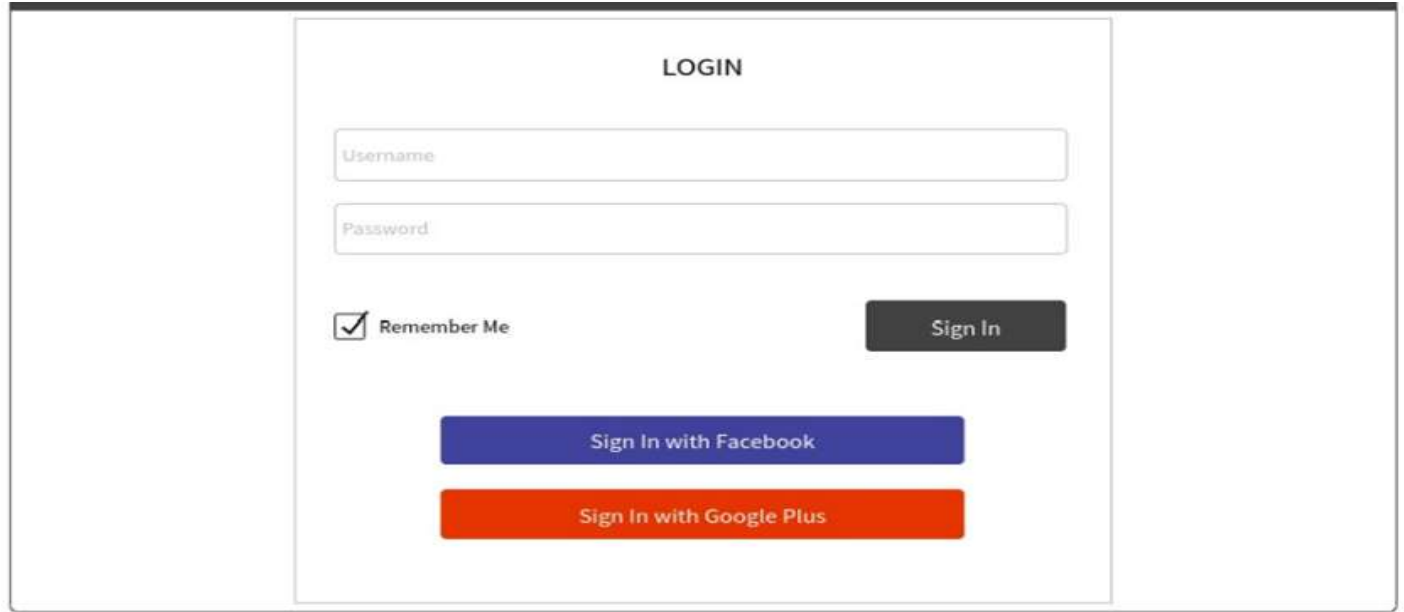
2. Mobile App

1. Login Screen
2. Qrcode Scanner
3. Product details screen
4. Transaction Screen

Prototype Design –One Page

Web Interface(Seller)

1. Login Page



LOGIN

Username

Password

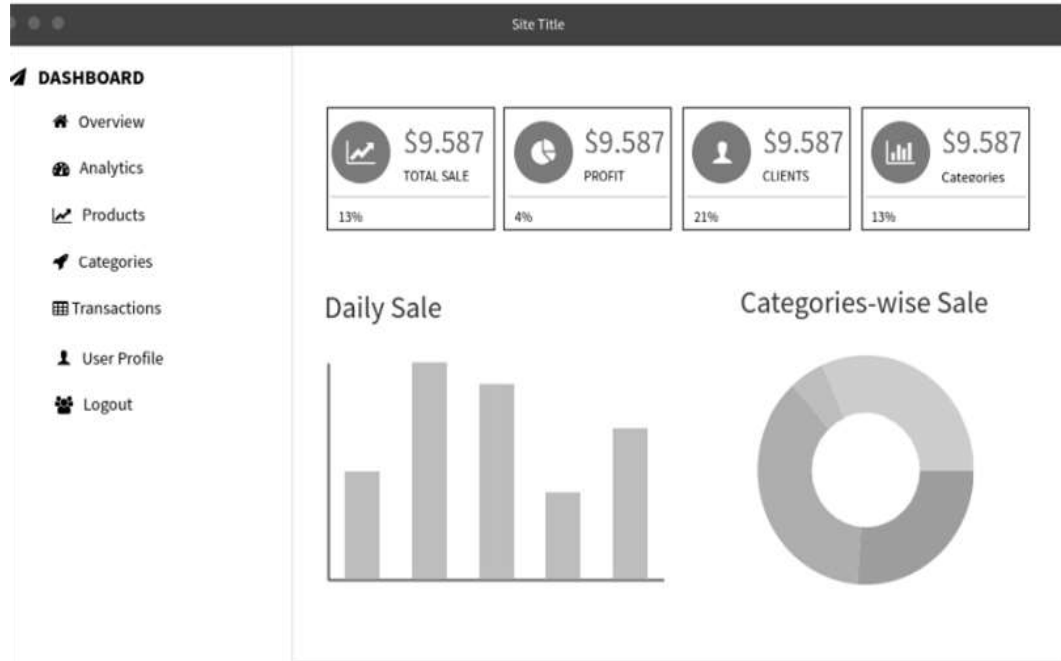
☒ Remember Me

Sign In

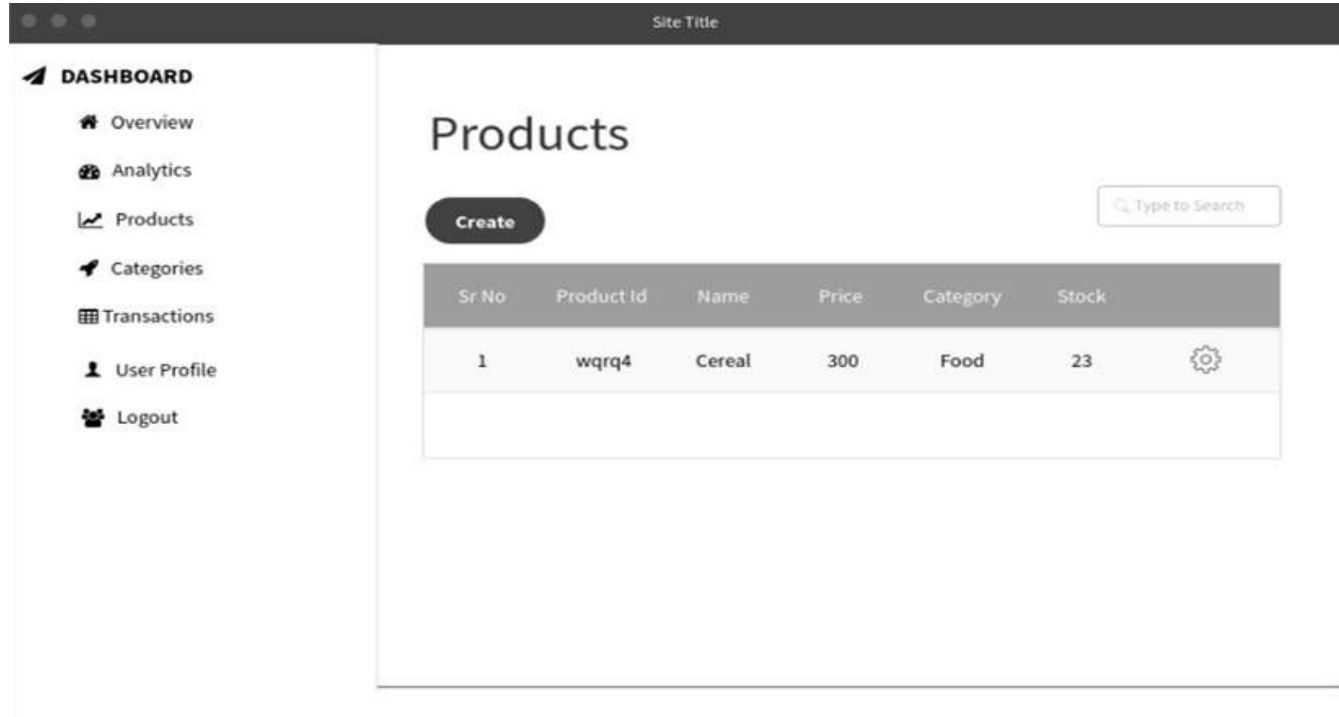
Sign In with Facebook

Sign In with Google Plus

2. Dashboard



3. Products Page



Mobile Interface(Buyer)

1. Login Page Scanner

