SW Engineering CSC648/848 Spring 2021

Our Project Name

Team 05

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Milestone 2

3/19/21

History Table

- Version 1 of Milestone 2 - 3/19/21

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Executive Summary:

The students of San Francisco State University maintain a busy lifestyle as they work hard to complete their degrees and stay safe while doing so. Our service aims to help alleviate the stress of daily dining by getting these students their favorite restaurant food delivered to them. By providing the swift, safe, and secure experience that only our service offers, we can help bring a little comfortable normalcy back to the tables of SFSU students and faculty.

With our application, users will be able to easily order from a host of local restaurants. They will be able to tailor search results with a number of categories such as type of cuisine, price, and distance away. To best ensure safe and convenient delivery we allow the user to decide where and when to meet with the driver. If the user wishes to leave a review or browse reviews, then they will be able to post and read reviews of any particular restaurant. Finally, price savvy users will be able to take advantage of deals and offers only available through our website.

The team is made up of 6 Computer Science seniors at San Francisco State University. We all have familiarity with website building and various modern technologies that will facilitate us in making a responsive experience. We have team members with different strengths such as customer service, user interface design, and backend systems. This diverse team will be able to create an experience tailored to San Francisco State's needs.

List of Main Data Items and Entities:

Approved users
-name
-email
-password
-address
-phone number

Deliverers
-name
-email
-password
-number of orders done

Restaurant owner
-name
-email
-password

Restaurants
- restaurant name
- address
- restaurant logo image
- cuisine type

Menu item
- restaurant it belongs to
- item name
- price
- description
- image buffered
- cuisine type

Admin
-name
-email
-password

Order

- Order number
- Title
- Description
- Restaurant it belongs to
- Deliverer
- User who ordered
- Delivery or pickup
- Total cost
- DateTime
- Status (waiting to be picked up, on the way, delivered)

Reviews

- Star rating (1-5)

Functional Requirements - Prioritized

1. **Priority 1:**
    a. **General User:**
        i. General users shall be able to create an account
        ii. General users shall be able to use search feature

    b. **Registered User:**
        i. Registered users shall be able to order food (pickup or delivery)
    c. **Restaurant:**
        i. Restaurants shall be able to apply for approval
        ii. Restaurants shall be able to manage (add or delete) deliverers
    d. **Admin:**
        i. Admins shall have an easy to access list of the restaurants that are applying to join the service.
        ii. Admins shall be required to approve restaurant registrations before they go live.
        iii. Admins shall have the ability to add and remove restaurants or users from the service
2. **Priority 2:**
    a. **General User:**
    b. **Registered User:**
        i. Registered users shall be able to choose delivery times and pick up locations
        ii. Registered users shall be able to leave reviews on restaurants
    c. **Restaurant:**
        i. Restaurants shall be able to access their orders
        ii. Restaurants shall be able to check their store's performance
        iii. Restaurants shall be able to update their menu
    d. **Admin:**
        i. Admins shall be able to view a list of restaurants that have applied to join the service.

3. **Priority 3:**
    a. **General User:**
    b. **Registered User:**

    i. Registered users shall have the ability to save their searches, their delivery time, delivery locations, to pick up or deliver orders.
    ii. Registered users shall be able to see discounted or undiscounted meals
    iii. Registered users shall be able to see their total spendings over a time period (budget feature)

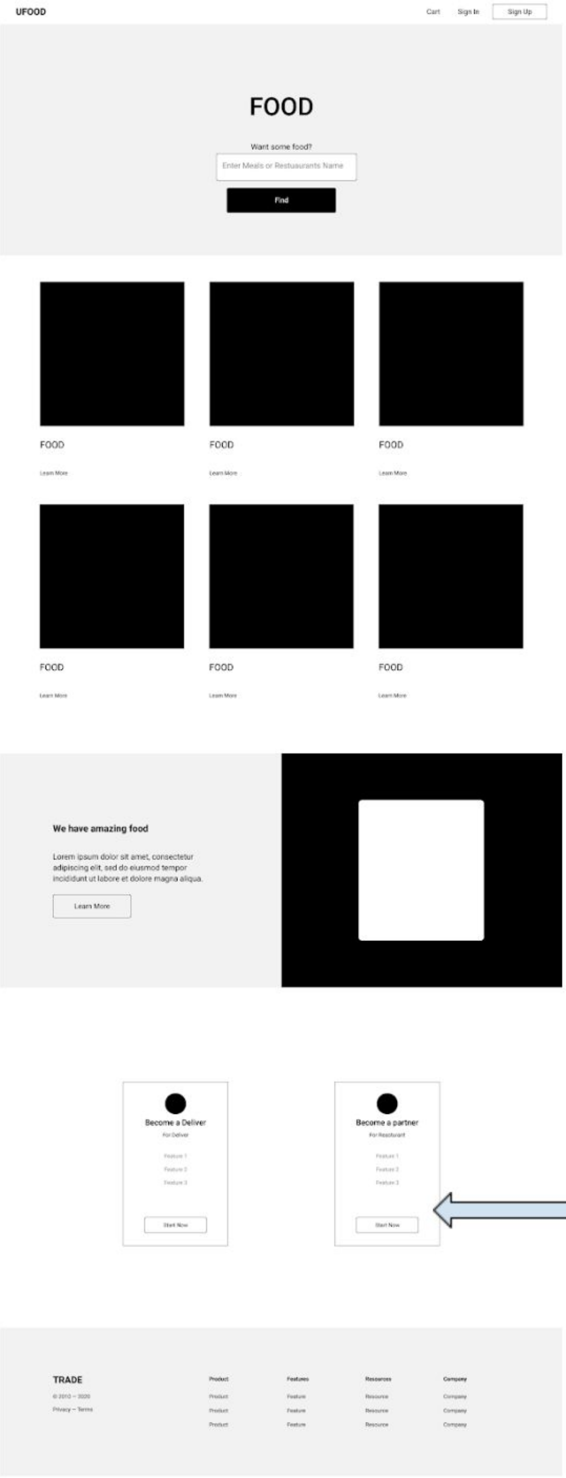
c. **Restaurant:**
d. **Admin**

UI Mockup and Storyboard

Created Using Figma:
https://www.figma.com/file/9VUxi0lQDjt7U1vwBhhYz9/CSC648-Milestone2-UI-Mockup?node-id=10611%3A2

Use case- A Restaurant owner wants to register the restaurant.

The owner clicks “become a partner” to register.



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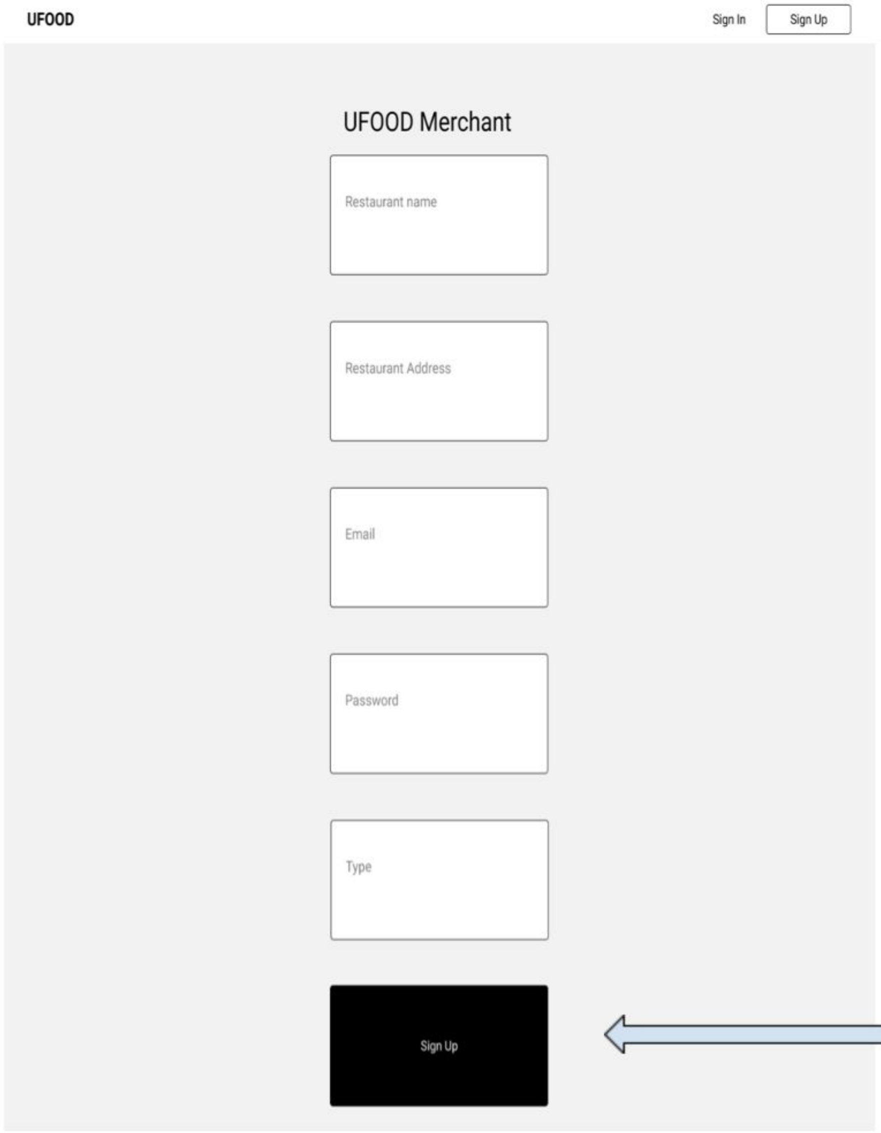
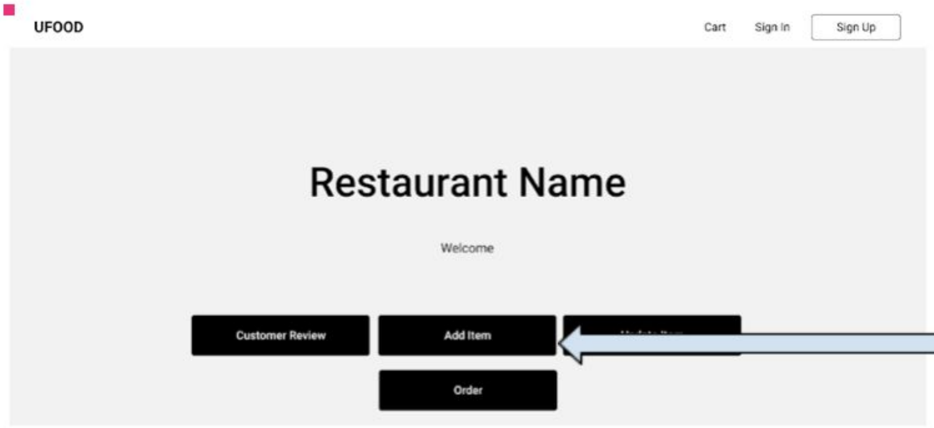
1. Click Become a partner

Registration page

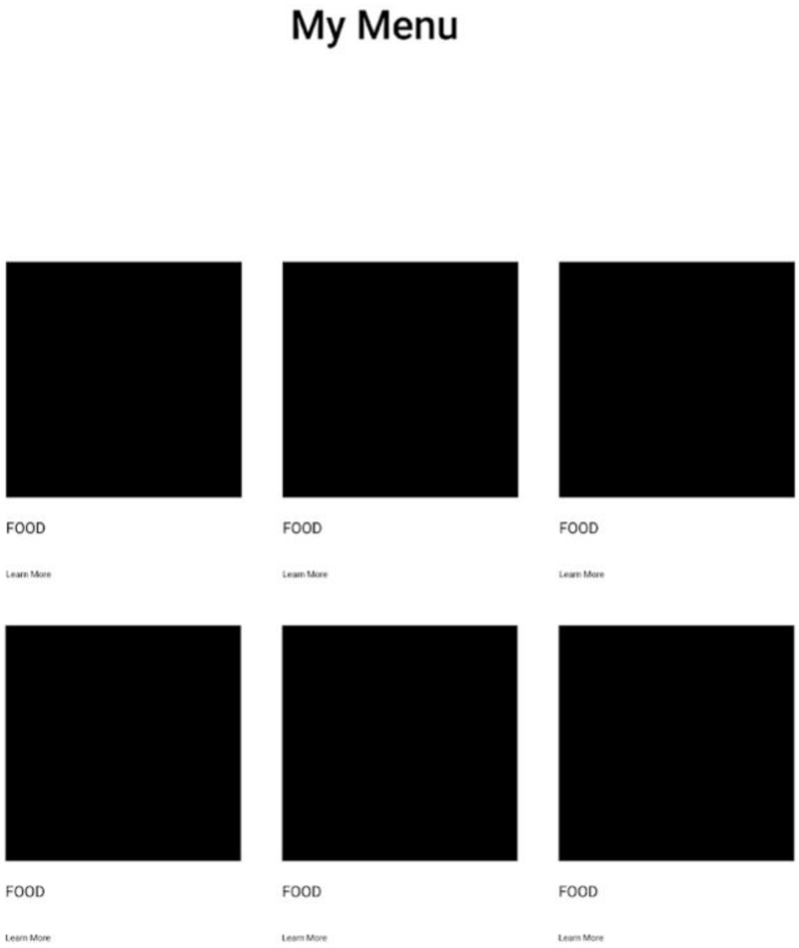


2.Fill in Information

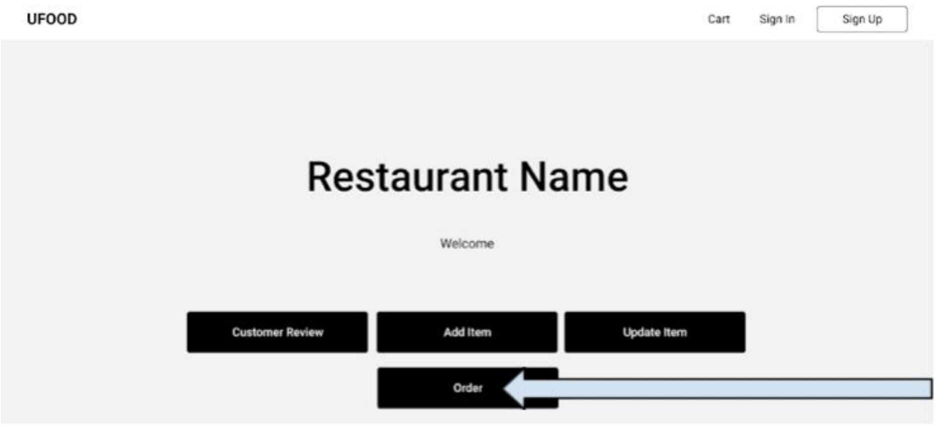


After registration, the restaurant owner jumps to the restaurant main page.

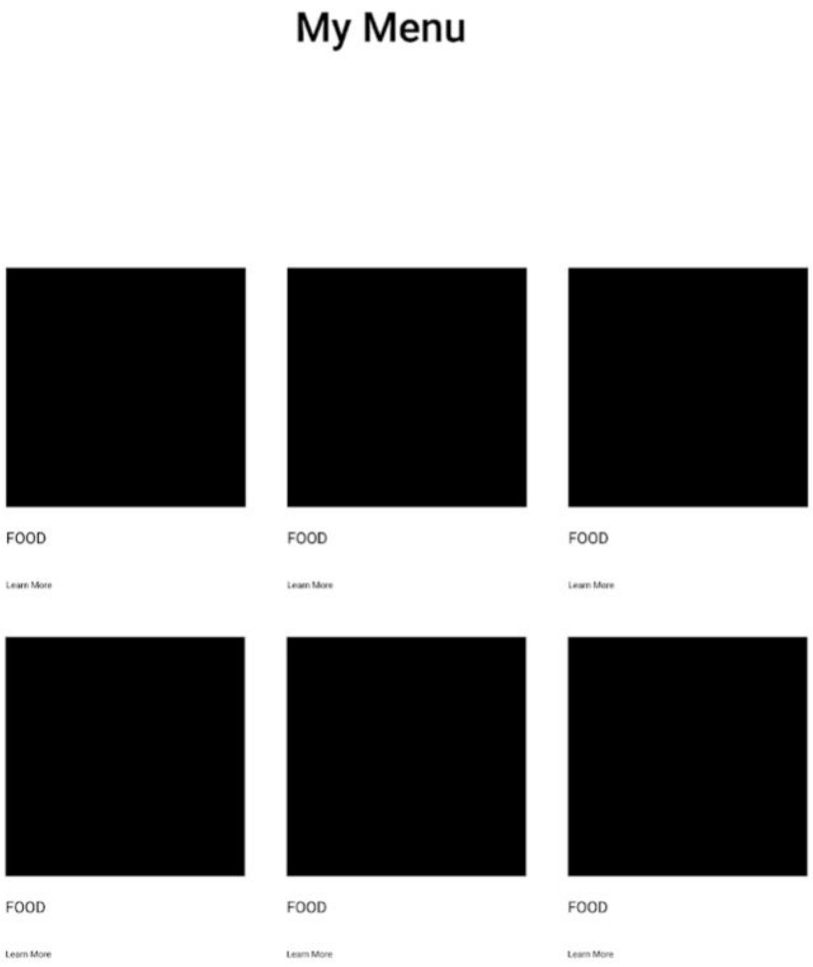
3.Add item to the restaurant account



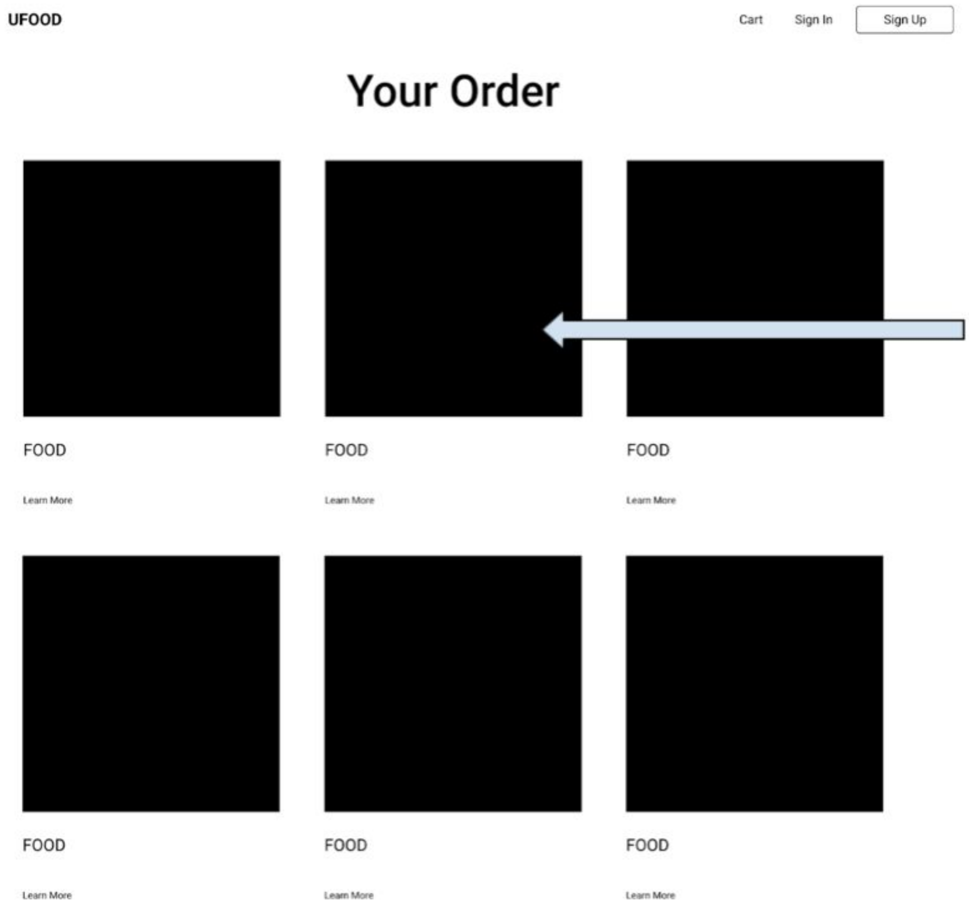
Use case- The restaurant needs to check orders.



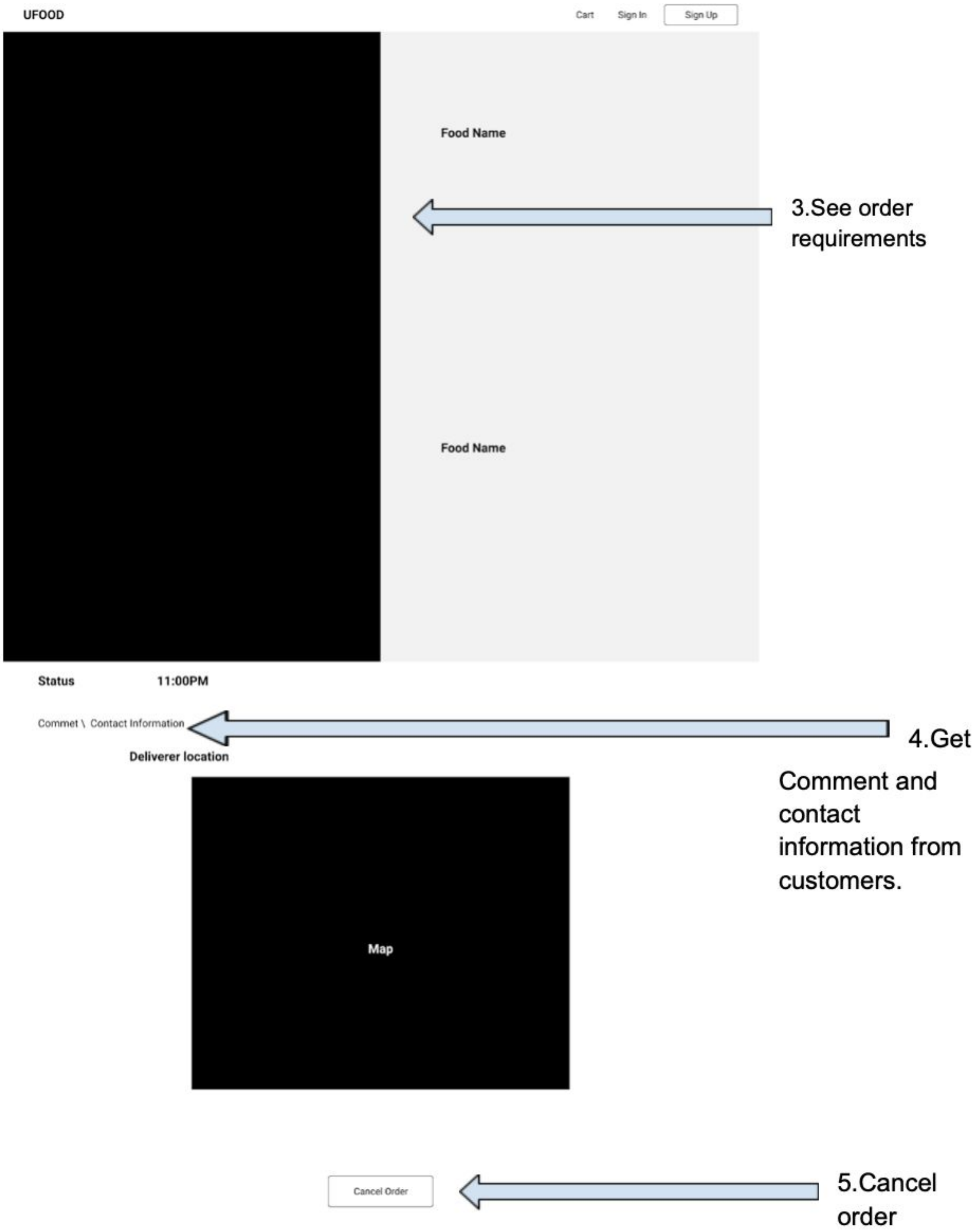
1. Click 'Order' to check orders.



The restaurant user then jumps to the order list page.



2. Choose new order



3.See order requirements

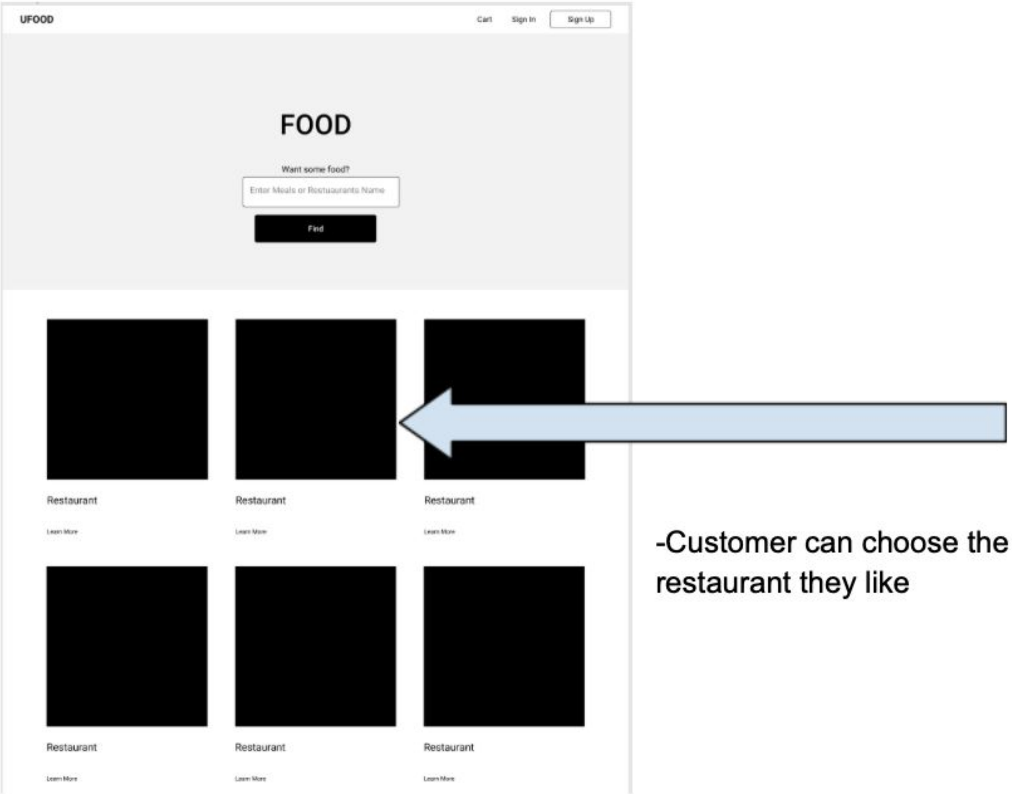
4.Get

Comment and contact information from customers.

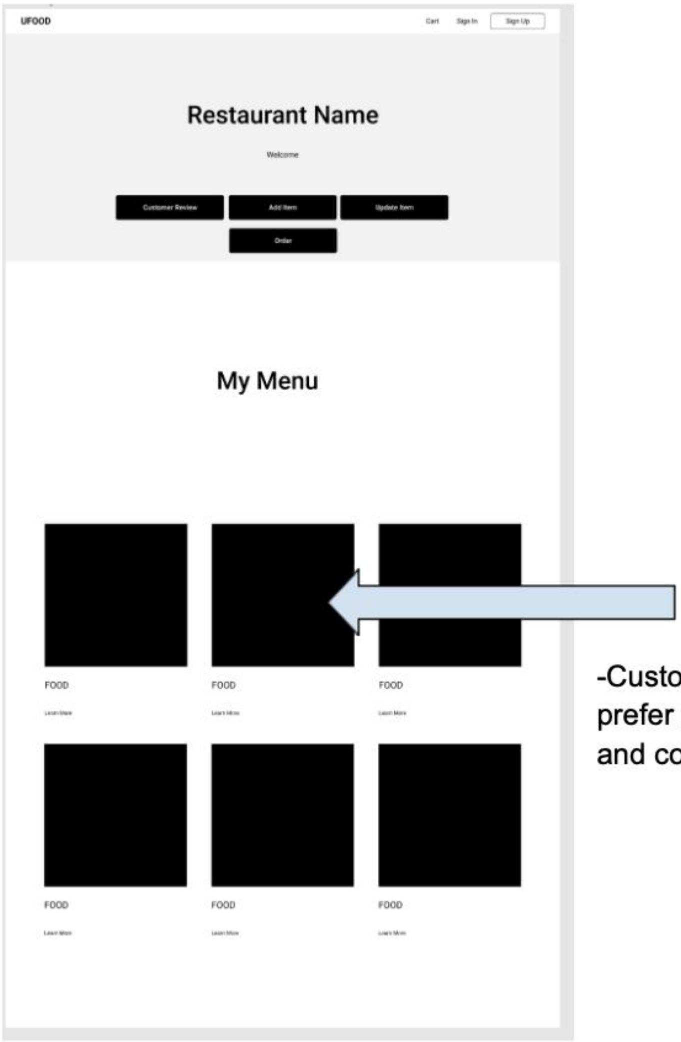
5.Cancel order

Customer Use Case:

Nancy is a nursing student at SFSU and wants to order Italian food tonight. She navigates to the front page of our app and notices a particular Italian restaurant's food. She looks for the closest Italian place to her, checks for delivery options, then completes her order.



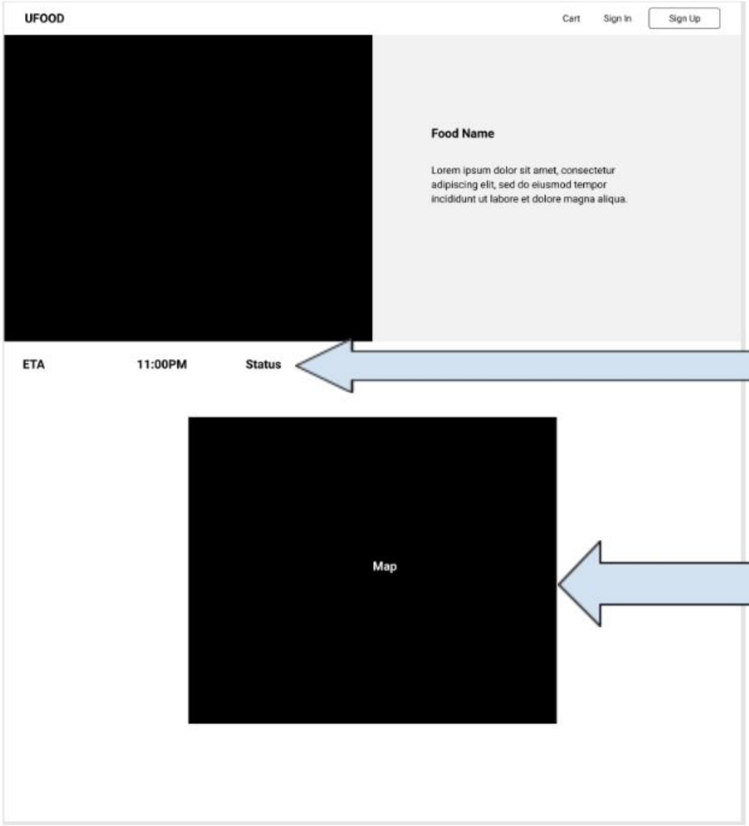
-Customer can choose the restaurant they like



-Customer can pick which food item they prefer from the menu to add to their cart and complete the order

Deliverer Use Case:

Thomas is a delivery driver that uses our app and enjoys how easy it is to track the deliveries he's taken on and how best to get where he needs to go. He uses the built in GPS to make sure that he always takes the fastest route while avoiding as much traffic as he can. This helps Thomas take on more work and earn more tips from his timely deliveries.



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-Driver can check for more information on the order.

-Driver can use the map to check the route

High level architecture and Database

Organization summary only:

Approved users
-name
-email
-password
-address
-phone number
- id

Deliverers
-name
-email
-password
-number of orders done
- id

Restaurant owner
-Owner id
-name
-email
-password
-restaurant id/key or null if they havent added a restaurant yet

Restaurants
- restaurant name
- address
- restaurant logo image
- cuisine type
- restaurant id

Menu item
- restaurant it belongs to
- item name
- price
- description
- image buffered

- cuisine type
- menu id

Order

- Order number id
- Title
- Description
- Restaurant it belongs to
- Deliverer id
- User who ordered
- Delivery or pickup
- Total cost
- DateTime
- Status (waiting to be picked up, on the way, delivered)

OrderItems (joining table between order and menu items)

- Order id
- Menu item id
- id

Reviews

- reviewer's user id
- Restaurant id
- Star rating (1-5)
- Order number
- Review id

Admin

-name
-email
-password
- id

We will save images to a folder in the file system of our server. The database entry will hold the filename/path of the images.

We will use SQL and %like for searching. The user will select from a drop down menu if they want to search for menu items, cuisine type or restaurant. We will return to the user the items that come from this search. We will compare the search term to item names, restaurant names or cuisine types of menu items.

The only API we plan to make at the moment is one that allows our front end to retrieve data from the mysql database in a formatted way.

Identify actual key risks for your project at this time:

Risk Type	**Possible Risks**	**Solutions**
Skills	Although our team has development experience, there are some skills we'd need to learn. For example, some of us are not familiar with React.	Our team has made a commitment to improve our skills. We have learnt from many online tutorials.
Schedule	We live in various time zones	We agree to meet with each other at least 2 times a week.

Technical	The technical risk was associated with the git push/pull/merge branches and the server deployment.	We now have a Github master, who handles Github conflicts.
Teamwork	Collaborative coding is always a challenge.	We all want to overcome this challenge. Therefore, we always work together whenever we are in zoom together. Also, we always extend our conversation on discord to help each other, which is very productive. Our team leader makes sure that everyone is on the same page and can contribute their best to the team. He always reviews tasks and delegates tasks to teammates.

		Overall, everyone on our team talks to each other and works extremely well together.
Legal/Content	We may use some non-free assets such as images.	We'll check multiple times to ensure that all images are pulled from free-use sites. Also, we'll use appropriate citations.

<u>Project Management</u>:

For managing the team, we started using Github projects. I chose this because it is easy to access from our project Github repo. It allows me as a team lead, to create tasks, and I can assign them to a person using their Github account. People can update their task status as in progress or finished, so I can see the status of things over time. I used this for milestone 2 and split the team into smaller groups working on different parts of the milestone. I plan to use Github projects for future milestones as well.