

CSC 642-842 HCI Summer 2020

“Final Implementation and Evaluation”

Project Name: Gator Grub

Gator Grub is an application that allows users to order food online from their favourite restaurants.

Team 03

Team Members:

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Version:

Version No.	Date	Comments(if any)
01	08/04/2020	Initial document

I. Executive Summary

Gator Grub is an application that allows users to order food from a particular restaurant or shop, and get it delivered to their footsteps. It will also have a pickup option. This will allow the users to get food without any hassle. Although there are a variety of other applications and websites for food ordering, Gator Grub has several features that make it stand out. Our first aim here is to get the user to order food without any registration/login requirements, which will familiarize the user with the application before requiring and prompting them to sign up / login before checkout (Lazy Registration). Additionally, our application shall allow the vendor to quickly and easily add and edit their restaurant information to the application. This makes it an appealing option from both the perspectives of the customers who are ordering, and the vendors who are selling.

Our application has various features, some of which include:

1. Getting food from nearby restaurants by a single click
2. Avoiding delivery fees for upto 5 mile range
3. Extremely user-friendly experience
4. Safety tag for COVID-19
5. Scheduled orders
6. Discounts for SFSU students

This should create an overall simple and enjoyable user experience, and consequently encourage them to sign-up/register.

II. Platform and Tools used in Project

- UX Design Tool:Figma
 - Used for section 2.2 Initial (Low-Fidelity) UI/UX Design
 - Used for section 2.3 High-Fidelity UI Design Prototype
- Automated QA Tool: Selenium
 - Used for section 2.5 QA Testing
- API(s) Used
 - Google Maps
- Tech Stack: Frontend
 - HTML
 - Javascript
 - CSS
- Tech Stack: Backend
 - N/A
- Framework
 - Bootstrap

III. Screenshots of current final implementation

a. Use Case/Storyboard 1: New Customer

Tyler is a full-time student at SFSU and works part-time to cover his expenses. He does not have enough time to prepare food and therefore mostly orders the food from restaurants. He learns about a new application named Gator Grub and thinks to try out the application to order his meal. He quickly downloads the application and finds out that registration is not required and he can quickly look into options of different restaurants by just a single click that requires him to enter his pincode to show the nearby places. He gets happy and goes further and gets some more filters to find out restaurants that are safe during this CoronaVirus pandemic. He is quickly able to add orders to his cart and lastly register to the application. This speeds up the process and Tyler is more happy to see the discount offered to SFSU students and quickly finishes ordering the food.

1. Tyler opens the Gator Grub homepage.

The screenshot shows the Gator Grub homepage with a purple header bar. The header includes the Gator Grub logo, the text "HCI Class SFSU CS Department Summer 2020", and navigation links for Home, About Us, For Restaurant Owners, Sign up, and Sign in. Below the header is a search bar with a "Go!" button and a zip code search bar with a "Go!" button. A "Featured Restaurants" section displays three cards for Shawarma (\$), Pho Land (\$\$), and Burger Palace (\$). Each card includes a thumbnail image, the restaurant name, a star rating, the price range, a brief description, and operating hours. Buttons for Directions, Call, and Share are also present. A sidebar on the left contains a "Quick Filter by Food" section with icons for Steak, Ham, Fish, Chicken, Pizza, Burgers, and Fast food, along with a "Safety Certified" badge. The URL "https://megha1005.github.io/CSC-642-842_Team_3/project/index.html" is visible at the bottom of the page.

2. He enters a zip code and clicks on "Food near me" and obtains the search results.

The screenshot shows the Gator Grub homepage after entering a zip code and clicking "Food near me". The search results page has a purple header bar with the Gator Grub logo, the text "HCI Class SFSU CS Department Summer 2020", and navigation links. Below the header is a search bar with a "Go!" button and a zip code search bar with a "Go!" button. A "Search Result : 50" section displays the same three restaurant cards as the homepage. To the right of the search results is a "Google Maps" section showing a map of San Francisco with a red marker indicating the location. The URL "https://megha1005.github.io/CSC-642-842_Team_3/project/index.html" is visible at the bottom of the page.

3. He finds out ‘Restaurant A’ and looks into the Covid-19 safety provided by the restaurant.

The screenshot shows a web-based restaurant search interface. At the top, there's a navigation bar with a logo, the text "HCI Class SFSU CS Department Summer 2020", and links for "Home", "About Us", "For Restaurant Owners", "Sign up", and "Sign in". Below the navigation is a search bar with placeholder text "Search for" and a "Go!" button. To the right of the search bar are buttons for "Enter zip code/city", "Food near Me", and "Food near SFSU". On the left, there's a sidebar titled "Quick Filter by Food" with categories like Steak, Ham, Fish, Chicken, Pizza, Burgers, and Fast food. A "Safety Certified" badge is also present. The main area displays a "Search Result : 50" section. A modal window titled "Covid-19 Safety" is open, containing text about Restaurant A's safety measures: "Restaurant A considers various different parameters for Safety. The Restaurant has compulsory mask and gloves for all the working staff. It has daily temperature checks of all the staff members at 9 a.m.". Below the modal, two restaurant cards are shown: "Shawarma" (5.0 stars, \$) and "Pho Land" (4.5 stars, \$\$). Each card includes a "Check the Covid-19 safety measures for this restaurant" button. To the right, there's a "Google Maps" section showing a map of San Francisco with a red pin indicating the restaurant's location. The map includes buttons for "Map" and "Satellite" view, and links for "Directions", "Call", and "Share".

4. Tyler then selects ‘Restaurant A’ and goes to its menu page.

The screenshot shows a restaurant menu page. At the top, there's a navigation bar with a logo, the text "HCI Class SFSU CS Department Summer 2020", and links for "Home", "About Us", "For Restaurant Owners", "Sign up", and "Sign in". Below the navigation is a search bar with a "Back to Search" button. To the right, there's a sidebar titled "My Cart" showing three items: "My order: 3 items", "My order: Item 1", "My order: Item 2", "My order: Item 3", and a "Check Out" button. The main content area displays a "Search Result : 50" section with a "Most Popular" filter. Two dishes are shown: "Salad, Carrot & Potato" (price \$12.99) and "BBQ Steak" (price \$20.99). Each dish has a small image and a brief description below it. The "Salad, Carrot & Potato" description reads: "Sauce smothered salad is a given takeaway. It's possibly one of the most amazing, delicious ways to eat a wonderful pieces of vegetables and it has various sauces included in it. It's been a while since we gave you Salad and it's time." The "BBQ Steak" description reads: "Garlic butter smothered BBQ Steak is a given. It's possibly one of the most amazing, delicious ways to eat a juicy piece of Steak and gets cooked twice a week in this house. It's been a while since we gave you Steak and it's time."

5. He selects a few items and adds them to his cart. He presses checkout and is taken to a page where he can view his cart, and provide his information to complete his order.

The screenshot shows a user's order summary on the left and a note to create an account or log in on the right.

Your order:

#	Picture	Food Name	Quantity	Price
1		Pizza	2	\$10.99
2		Noodle	1	\$8.99
3		Burger	2	\$5.99
Total: \$25.97				

Note:

Before proceeding to checkout, you need to create an account or Login if it already exists.

User Information Fields:

- Name: *
- Phone Number: *
- Email: *

Buttons:

- Complete Your Order
- Login
- Signup

Login or Create an account to save your information for next time!

6. Once he provides his information, logs in or creates an account, he is taken to the checkout page, where he can select his payment method, and choose his delivery options.

The screenshot shows a user's order summary on the left and payment/delivery options on the right.

Your order:

#	Picture	Food Name	Quantity	Price
1		Pizza	2	\$10.99
2		Noodle	1	\$8.99
3		Burger	2	\$5.99
Total: \$25.97				

Payment

Select Payment Methods:

Cash Check

Deliver to:

SFSU Location on campus: Choose one...

My address
Enter your Street / Avenue / Apt
Enter your City

Delivery time:

ASAP Schedule Delivery at:
12:30PM on: Mondays

Contactless delivery
 Verify your order before check out

Buttons:

- Check out

7. Finally, he places the order and is able to track the order progress.

The screenshot shows a tracking page for an order placed on the Gator Grub platform. The header includes the logo 'GATOR GRUB' and the text 'HCI Class SFSU CS Department Summer 2020'. Navigation links for 'Home', 'About Us', 'For Restaurant Owners', 'Sign up', and 'Sign in' are also present. The main content area is titled 'Tracking' and displays the following order details:

#	Picture	Food Name	Quantity	Price
1		Pizza	2	\$10.99
2		Noodle	1	\$8.99

Total: \$25.97

Delivery Address: SFSU Library
 Phone: (415) 338-1111
 Schedule(optional): ASAP
 Contactless delivery: Accept
 Payment Method: In-person

ETA: 10 min Status: Order Received Home

b. Use Case/ Storyboard 2: New Vendor

Miguel owns a bakery in Daly city and is interested in selling his baked food online. He is new to online marketing and does not have good skills in using technologies. He finds out that nearby restaurants are gaining profit by marketing using the Gator Grub application. He decides to use that application and downloads it. He is required to mark a checklist for COVID-19 safety precautions taken by his restaurant. And easily, he adds up his restaurant to the application without any hassle.

1. Miguel is new to Gator Grub. He goes to the homepage.

The screenshot shows the Gator Grub homepage with a purple header bar. The header includes the Gator Grub logo, the text "HCI Class SFSU CS Department Summer 2020", and navigation links for Home, About Us, For Restaurant Owners, Sign up, and Sign in. Below the header is a search bar with a "Go!" button, a zip code search bar with a "Go!" button, and buttons for "Food near Me" and "Food near SFSU". On the left, there's a "Quick Filter by Food" sidebar with categories like Steak, Ham, Fish, Chicken, Pizza, Burgers, and Fast food, each with a "Safety Certified" badge. The main content area is titled "Featured Restaurants" and displays three cards for Shawarma (\$), Pho Land (\$\$), and Burger Palace (\$). Each card shows a photo of the restaurant's food, its name, average rating, number of reviews, hours, and a "Check the Covid-19 safety measures for this restaurant" link. Below the cards are three smaller images of food.

2. He presses the For Restaurant Owners button, which takes him to the login page.

The screenshot shows the "Restaurant Owner Login" page. It features a purple header bar with the Gator Grub logo, the text "HCI Class SFSU CS Department Summer 2020", and navigation links for Home, About Us, For Restaurant Owners, Sign up, and Sign in. The main content area is titled "Restaurant Owner Login" and contains two input fields: "Username:" and "Password:". Each field has a placeholder "Enter your Username" or "Enter your Password" and a "Forgot [Field]?" link. A "Login" button is located below the password field. At the bottom of the form is a link "New to GatorGrub? Sign up here!"

3. Since he does not have an account, he needs to register.

The screenshot shows the 'Sign Up' page of the website. At the top, there is a purple header bar with the text 'HCI Class SFSU CS Department Summer 2020' and navigation links for 'Home', 'About Us', 'For Restaurant Owners', 'Sign up', and 'Sign in'. Below the header is a light blue main content area with a form titled 'Sign Up'. The form contains six input fields with labels: 'Username:'*, 'Full Name:'*, 'Email:'*, 'Confirm Email:'*, 'Password:'*, and 'Confirm Password:'*. Each field has a placeholder text inside it. A 'Sign Up' button is located at the bottom of the form.

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4. After creating an account, he is taken to the Accounts page, where he can see all the past orders if any, or have an option of adding a restaurant.

The screenshot shows the 'Restaurant Owner Page' of the website. At the top, there is a purple header bar with the text 'HCI Class SFSU CS Department Summer 2020' and navigation links for 'Home', 'About Us', 'For Restaurant Owners', and 'Logout'. Below the header is a light blue main content area with a section titled 'Past Orders:' followed by a large empty text area. There is also a dark blue button labeled 'Account Preferences'. Below that is a section titled 'My Restaurants:' with a dark blue button labeled 'Add a restaurant' above a large empty text area.

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5. He clicks on ‘Adding a Restaurant’ and fills up the Restaurant details and is provided a checklist for Covid-19 safety details to be filled up.

Adding a Restaurant to Your Account

Restaurant Name:

Website:

Full Restaurant Address:

Cuisine Type:

Distance to SFSU: miles Time to SFSU: minutes

Add Menu

COVID-19 Safety Tag: The purpose of the safety tag is to let customers know what safety precautions your store is taking.

Masks and Gloves
 Temperature Checks
 All Employees Tested Negative
 Other:

Cancel **Save**

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6. He fills up all the details and is then required to add the Menu items.

Adding a Menu Item

Muffins **Add Category +** **X**

Upload Image

Title: Tomato Muffin

Description: A muffin with tomato.

Price: \$ 4.00

Add Item

Close **Save changes**

7. He then saves all the details of the menu items and is taken back to the previous page where he can edit the restaurant details if required or can go to the homepage if done.

The screenshot shows the homepage of the HCI Class SFSU CS Department Summer 2020 website. At the top, there is a purple header bar with the text "HCI Class SFSU CS Department Summer 2020". Below the header, there is a logo for "GATOR GRUB" and a navigation bar with links for "Home", "About Us", "For Restaurant Owners", and "Logout". The main content area has a light purple background and features a section titled "Miguel's Bakery". It includes two empty tables labeled "Upcoming Orders:" and "Past Orders:". A dark blue button labeled "Edit Restaurant Info" is located between the two tables. At the bottom of the page, there is a pink footer bar with the text "Copyright © CSC 642-842 Summer".

8. He clicks on the edit Restaurant page and makes changes and saves it.

The screenshot shows the "Edit Restaurant Info for Miguel's Bakery" page. The page has a light purple background. At the top, it displays the restaurant name "Miguel's Bakery", website "www.miguelsbakery.com", address "1600 Holloway Ave San Frar...", and cuisine type "Bakery". Below this, it shows a distance of "3.2 miles" and time to SFSU as "5 minutes". There is a "Cancel" button and a "Save" button at the bottom right. In the middle, there is a section for "COVID-19 Safety Tag" with the text: "The purpose of the safety tag is to let customers know what safety precautions your store is taking." It lists several options with checkboxes: "Masks and Gloves" (checked), "Temperature Checks" (unchecked), "All Employees Tested Negative" (unchecked), and "Other: [text input field]" (unchecked). The "Save" button is highlighted in green.

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IV. URLs of relevant material

- Demo site URL:
https://megha1005.github.io/CSC-642-842_Team_3/project/index.html
- Github project link: https://github.com/Megha1005/CSC-642-842_Team_3

V. Information about QA tool used, and screenshots

The UI QA test tool we chose to use was Selenium.

Here are the screenshots of the tool test output on one chosen UI page:

