

Group Project Log

Group Name:	Group 2
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Deliverable:	GoDine project proposal and front-end code (via GitLab)
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Group Member Name	Work Done (%)
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Tejas Pabbu	16.6%
Venkata Sreenivas Prasad Kasibhatla	16.6%
Jahnavi Gajjala	16.6%
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PROJECT PROPOSAL

GoDine

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1. PROJECT BACKGROUND

The GoDine restaurant booking application is estimated as a dynamic answer tailored to revolutionize the joy of dining. The primary purpose of such an app is to streamline the process of booking tables at restaurants, making it more efficient, accessible, and convenient for customers while also providing restaurants with a tool to manage reservations, customer flow, and dining experience more effectively right, here's how it enables specific corporations.

In simple phrases, GODINE aims to make lifestyles easier for folks who love dining out, for folks who run restaurants, and for those who are looking to lease in the hospitality industry. It is all about connecting humans with great food studies.

This project is a collaborative effort of Group 2, born out of discussions about real-time challenges in existing dining out sites. Our team's diverse expertise in software development and user experience design has been instrumental in shaping GoDine's multifaceted approach.

1.1 Project Objectives

The GoDine restaurant booking application objective is to streamline the procedure of coming across and booking restaurants for diners, whilst empowering restaurant owners. For diners, GoDine guarantees an intuitive platform that simplifies the choice-making system, providing customized suggestions, clean reservation options, and insightful critiques. For restaurant owners, the app is a gateway to stronger visibility and operational efficiency, allowing them to manipulate reservations, get hold of customer comments, and optimize their services. GoDine's ambitions to be the move-to digital solution, enriching the eating landscape for all customers.

1.2 Live Project URL

Application can be accessed at: <https://godine-group2.netlify.app/>

GitLab Repository can be found at: <https://git.cs.dal.ca/pabbu/csci-5709-grp-02>

2. APPLICATION DETAILS

2.1 Target User Insight

This website targets three main groups of individuals: Diners (Consumers), Restaurant Owners, and administrators.

For Diners: If you love eating out but find it tough to get a table, GoDine is right here to help. The app lets you without problems discover and book tables at eating places. You can search for locations that are healthy for your taste and budget, or even get unique deals. It's like having a non-public dining assistant in your pocket.

For administrators of the App: For people who manipulate the GODINE app, the intention is to keep the whole thing jogging smoothly. This means ensuring that the app has a very good blend of restaurants for diners to choose from and that the whole thing from bookings to promotions works well. It is about ensuring revel in for all of us using the app.

For Restaurant owners: For eating place proprietors: running a restaurant is tough, especially about getting clients and coping with bookings. GODINE gives eating place proprietors an easy way to show off their area to extra humans and manage reservations smoothly. It's like having a useful tool to keep the whole thing organized and entice greater diners.

2.2 Brand Attributes

Innovation: GoDine works to reinvent the dining experience by using technology to make it easier for customers to find and reserve tables in restaurants while also giving restaurant owners access to effective management tools.

Convenience: With a smooth reservation management platform, and easy access to promotions and discounts, the app puts an emphasis on convenience for both customers and restaurant owners.

Efficiency: GoDine's primary goal is to simplify operations for both customers and restaurant owners. To this end, it offers real-time availability checks, easy reservation processes, and efficient management of restaurant listings.

Connectivity: By acting as a digital bridge between customers and restaurants, GoDine hopes to build relationships and improve the eating experience.

Trustworthiness: GoDine emphasizes the security and privacy of its users' data, establishing confidence in the platform with a secure login process, encrypted user credentials, and privacy safeguards in place.

2.3 Competitive Landscape

Established Reservation Platforms: OpenTable, and DineOut are a few of the well-known reservation platforms that GoDine competes with [3][4]. These platforms are widely used and provide extensive functionality for managing and booking restaurants. GoDine sets itself apart by emphasizing efficiency, usability, and simplicity in the reservation process to draw customers seeking a streamlined experience.

Food Delivery Apps with Reservation Features: To complement their food delivery services, certain apps for food delivery, such as Uber Eats [5] and Zomato (in India) [6], have included reservation functions. These apps let users book restaurants even if their main function is food delivery. To compete, GoDine offers a specialized platform for making restaurant reservations only, giving customers a more personalized dining experience.

In-house reservation systems: Some large restaurant chains such as “The Wooden Monkey Restaurant” [7] may have their own online booking and management platforms linked with their applications. These systems frequently include brand-exclusive promotions and loyalty programs. GoDine is a competitor, offering a greater variety of restaurants and a more cohesive platform for customers to discover and book dining experiences across various establishments.

2.4 Project Scope

The scope of our project (Must have) is list of features below:

Authentication: Users can safely create an account, log in, or recover their passwords back, guaranteeing safe access to their personal data. Because our technology uses strong encryption, passwords are never kept in plaintext; instead, a securely encrypted hash is maintained in the database.

User profile management: With the help of GoDine platform, customers can fully customize their unique profiles, taking the eating experience to new heights. Users may easily change their personal information, including name, email address, password, and contact number, whenever it's convenient for them to do so. This guarantees that their contact data and dining preferences are up to date.

Restaurant table Reservation: Our table reservation option allows customers to book a table at their favorite restaurants for any chosen date and time, giving them the luxury of securing their preferred dining spaces far in advance. This avoids the inconvenience of waiting times and ensures a seat upon arrival. Real-time table availability is provided by our technology, which also instantly confirms reservations.

Search based discounts and promotions: Our platform's cutting-edge deal-finding feature empowers customers to effortlessly unearth the most advantageous deals, meticulously curating and presenting up-to-the-minute discounts and promotions from a diverse array of dining establishments. It enables users to refine their quest for savings with a variety of search parameters such as geographic locale, type of discount, promotional periods, and culinary genres.

Restaurant Management: Customers may easily locate the best deals due to our platform's state-of-the-art deal-finding technology, which carefully selects and displays the most recent discounts and promotions from a wide range of restaurants. With a range of search options, including location, discount type, and promotional dates, users may focus their search for deals.

Payment: GoDine provides a flexible range of payment methods for reservation-related transactions in order to enhance client convenience. This guarantees that customers may easily and confidently secure their reservations using commonly used payment methods including distinct types of credit cards, and debit cards.

Search and filter: The sophisticated search and filter features on our platform give users a more personalized experience when choosing their perfect restaurant. Users can easily narrow down their search results by selecting from a variety of customisable parameters. These include cuisine type, price range, available discounts, restaurant ratings, and proximity to the place. This feature's easy-to-use interface simplifies decision-making while also promoting the exploration of new dining experiences that are in line with personal tastes and financial constraints.

Newsletter subscription (Promotions): Customers can subscribe to a customized newsletter on our platform to stay informed about the most recent deals, promotions, and other interesting information. By registering for this feature, customers can look forward to regular emails that highlight not only current sales but also upcoming promotions and extraordinary events, all of which are delivered directly to their mailbox.

Reservation management (View, edit, cancel reservations): With just a few clicks, our technology gives users the most freedom and control possible over their meal plans, enabling them to easily manage their bookings. Customers may check and confirm upcoming reservations as well as look back at their previous booking history with our easy-to-use interface. This function is extremely useful for people who want to go back to their favorite restaurants or have remarkable meals.

The flexibility to amend bookings provides further convenience by easily accepting last-minute changes in plans. Users can modify the date, time, and number of guests on their reservation, making sure that their dining experience properly suits their changing demands.

Wishlist: Our software improves the dining experience by letting customers make a customized Wishlist of their preferred eateries, making it easier to choose their top options for future meals, and much more. This feature enables users to compile a list of places they've enjoyed or would like to visit in the future, making it easy to access and simple to organize future trips.

Features that are currently out of scope (Nice to have):

Admin DashBoard: The admin dashboard simplifies the management of restaurant listings on one platform, making it an essential and user-friendly tool for site managers. With the help of this extensive dashboard, administrators may quickly update current listings. It also makes it easier to delete out-of-date or closed restaurant listings, which helps to keep the site relevant and user-friendly.

Event registration: With extensive customization and versatility, the Event Reservation feature is a comprehensive solution made to make restaurant reservations easier for big events like weddings and corporate gatherings. It enables customers to collaborate directly with eateries to design customized menus with options for themed or special requirements that meet dietary requirements and tastes.

Reward Program: The Rewards Program is a cutting-edge customer loyalty program created to reward and encourage users for their involvement and continued use of the service. Through a variety of activities, including dining at participating restaurants, making reservations, and posting reviews about their experiences, customers can earn points as part of this program. All these actions not only enhance the platform's reliability and content richness, but they also motivate consumers to keep using it.

2.5 Information Architecture

2.5.1 Proposed Sitemap

Figure 1 outlines the high-level content hierarchy and functionalities for our Restaurant Owner Persona when interacting with our web application: (part of must have features)



Figure 1: GoDine – Restaurant Owner Sitemap [1]

Figure 2 outlines the detailed information hierarchy and duties of our Administrator Persona when interacting with our web application: [part of nice to have]

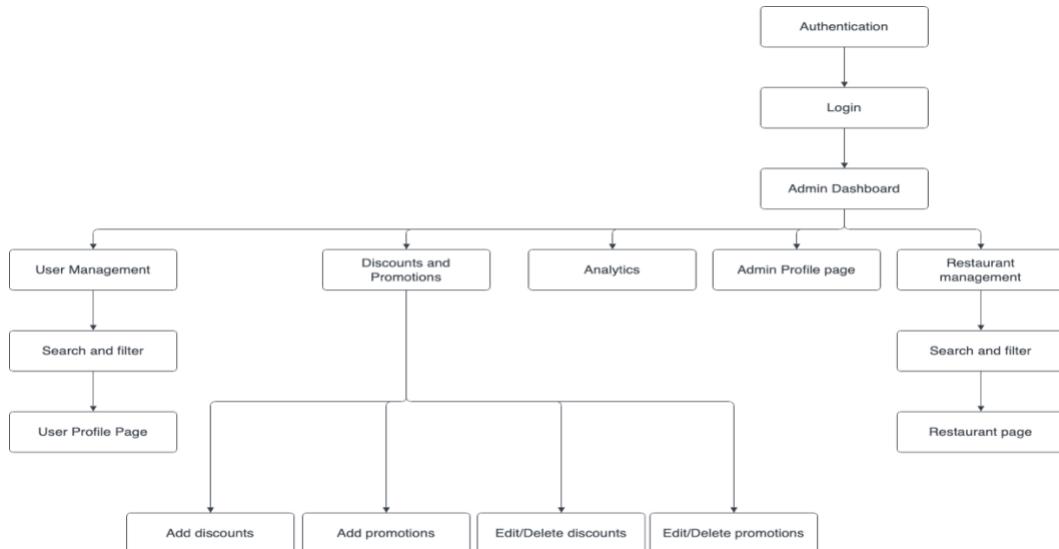


Figure 2: GoDine – Administrator Sitemap [Reference for draw.io]

Figure 3 outlines the idealized information hierarchy and navigational relationships for our Restaurant Table Reservation – Consumer Persona when interacting with our web application. (part of must have features)

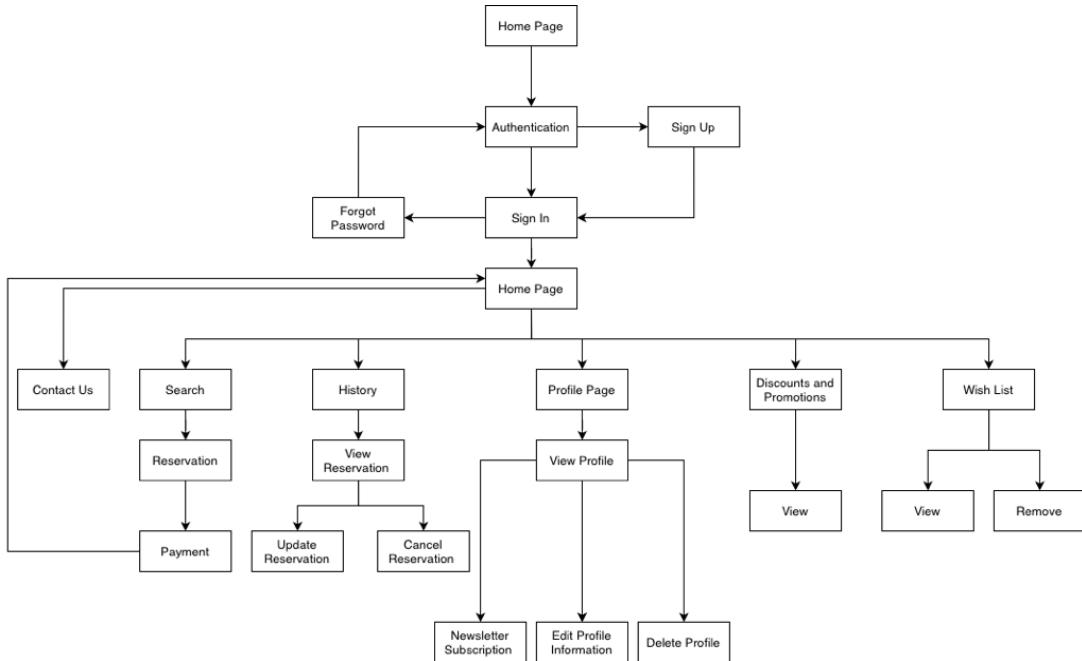


Figure 3: GoDine – Consumer Sitemap [1]

2.5.2 Wireframes

Authentication Wireframes

A wireframe of a web browser window titled "A Web Page". The address bar shows the URL <https://godine-group2.netlify.app>. The header includes a logo for "Go Dine" and navigation links: Home, Reserve, Profile, Discounts, Contact, Wishlist, and FAQ. The main content area contains a "Sign Up" form with fields for First Name, Last Name, Email, Password, Confirm Password, and a user toggle switch. A "Submit" button is at the bottom.

Figure 4: Wireframe applicable to Signup [2].

A wireframe of a web browser window titled "A Web Page". The address bar shows the URL <https://GoDine.com>. The header includes a logo for "Go Dine" and navigation links: Home, Reserve, Profile, Contact, and Wishlist. The main content area contains a "Log In" form with fields for Email and Password. It also includes links for "Forgot Password?", "Don't have an account? Create One Now", and a "Submit" button.

Figure 5: Wireframe for Login [2].

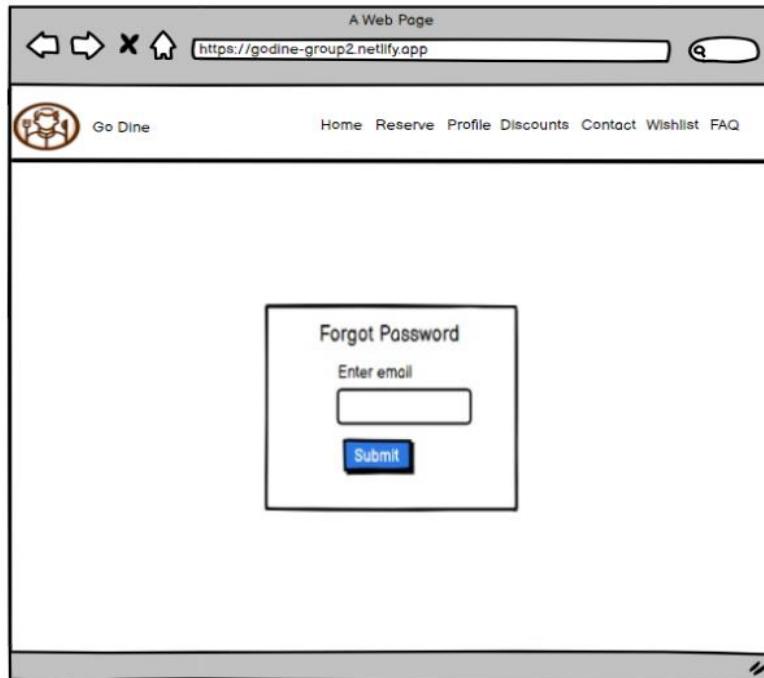


Figure 6: Wireframe for forgot password [2].

Wishlist Wireframe

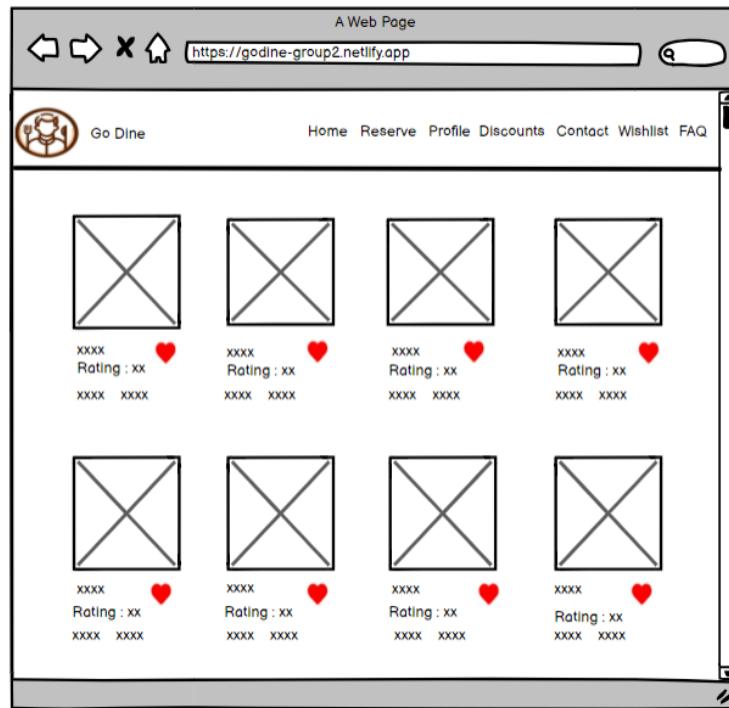


Figure 7: Wireframe for Wishlist [2].

Table Reservation System Wireframes

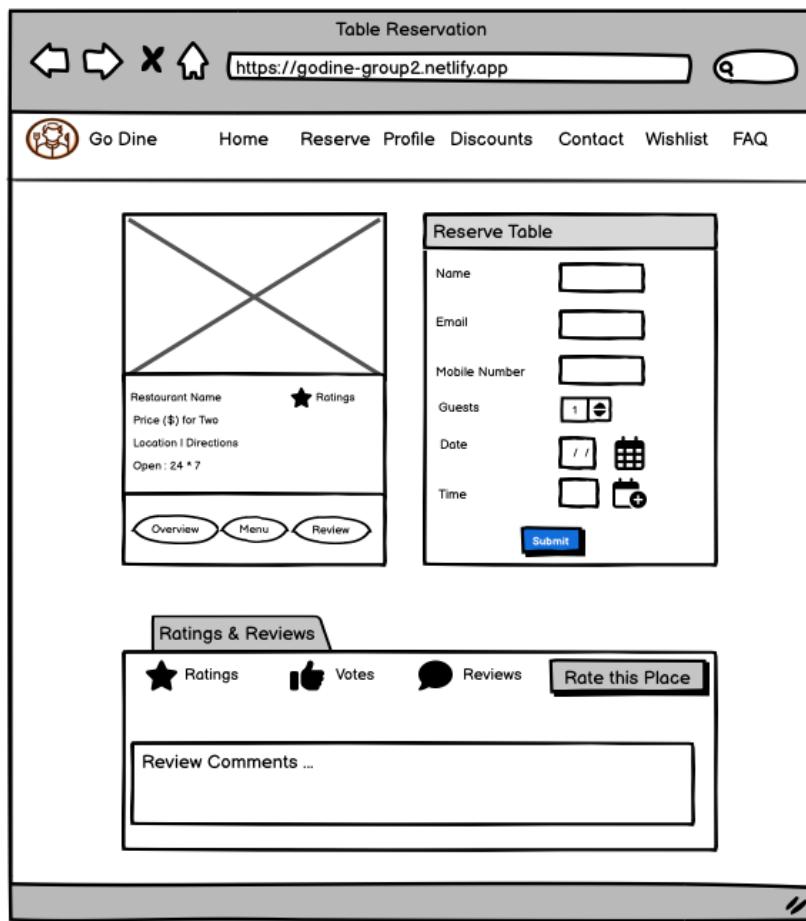


Figure 8: Wireframe for Table Reservation Page [2].

Reservation management wireframes

S.NO	Restaurant Name	Date	Time	Status	Review	Cancel
1	By the bay - Lounge	01/ 02 / 24	7:00 PM	Waiting	Review	Cancel
2	Tawa Grill	15/ 02 / 24	8:00 PM	Approved	Review	Cancel
3	Mirchi Tandoor	01/ 01 / 24	7:30 PM	Cancelled	Review	Cancel
4	Into the Sky - BAR	31/ 12 / 24	11:00 PM	Approved	Review	Cancel

Figure 9: Wireframe for My Bookings Page [2].

Leave A Review

S.NO	Resto
1	By the bay - Lounge
2	Tawa Grill
3	Mirchi Tandoor
4	Into the Sky - BAR

Leave a Review

Ratings *

5 ★ 4 ★ 3 ★ 2 ★ 1 ★

Would you recommend us to your friends & family ? *

Yes No

Review *

—

Cancel

Cancel

Cancel

Cancel

Cancel

Figure 10: Wireframe for Leave a Review Component on My Booking Page [2].

Payment Management System wireframes

The wireframe shows a web browser window for 'GoDine Payment' at the URL <https://godine-group2.netlify.app>. The header includes standard navigation icons (back, forward, search) and a logo for 'Go Dine'. Below the header is a navigation bar with links: Home, Reserve, Profile, Discounts, Contact, Wishlist, and FAQ. The main content area is titled 'GoDine' and displays a payment form. The form includes a total price of '222 CAD', a link to 'Order details', and a section for 'Credit Card/ Debit Card' with fields for Email Id, Card Number, CVV, and Expiry Date (02/24). A large blue button labeled 'Pay Now' is at the bottom of the form.

Figure 11: Wireframe applicable to Payment feature – Payment page [2].

The wireframe shows a web browser window for 'GoDine Payment' at the URL <https://godine-group2.netlify.app>. The header and navigation bar are identical to Figure 11. The main content area displays a 'Payment Successful!' message in a prominent box. It includes a thank you note, order details (Order ID: BC892470, Transaction ID: #V743I74376934), and a total amount of 222 CAD. At the bottom, there is a message encouraging users to contact support and an 'OK' button.

Figure 12: Wireframe applicable to Payment feature – Payment Successful page [2].

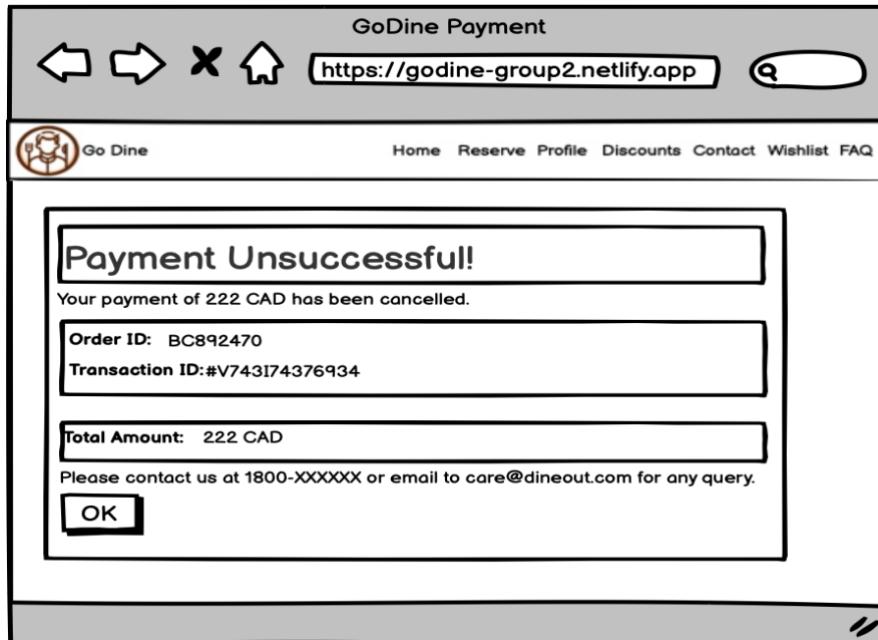


Figure 13: Wireframe applicable to Payment feature – Payment Unsuccessful page [2].

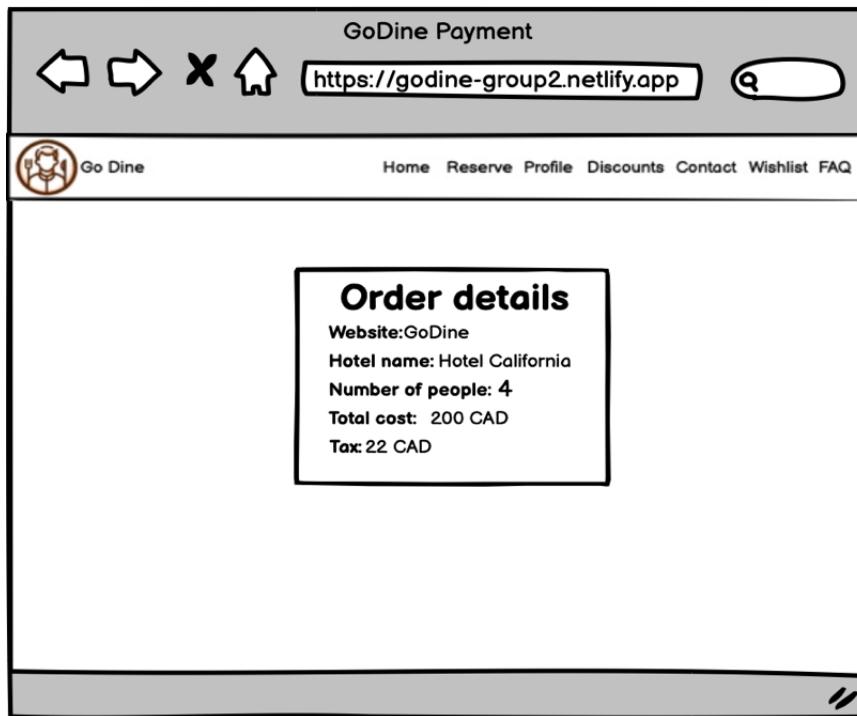


Figure 14: Wireframe applicable to Payment feature – order details page [2].

User Management System wireframe

A Web Page

https://godine-group2.netlify.app

Go Dine

Home Reserve Profile Discounts Contact Wishlist FAQ

John Doe

f t i

Personal Information

Name: John Doe

Age: 25

Email: John@gmail.com

Phone: 1234567890

Address: 123, New York

Edit

Figure 15: Wireframe applicable to User Profile Management feature – edit profile page [2].

Restaurant Management wireframe

GoDine Restaurant Management Page

https://godine-group2.netlify.app

Go Dine

Home Reserve Profile Discounts Contact Wishlist FAQ

Total Revenue
\$5000

Average Order Value
\$350

Customer Satisfaction
4.5/5

Sales Data

Customer Demographics

Popular Dishes

Add Restaurant Details

Restaurant Name:

Address:

Pricing:

Cuisine:

Working hours:

Contact Number:

Seating capacity:

Accepts Reservations

Outdoor Seating

Wifi Available

Upload Menu

Choose File

Upload Photos

Choose File

Submit

Figure 16: Wireframe applicable to Restaurant Management - Add restaurant details Page [2].

Newsletter Subscription wireframe

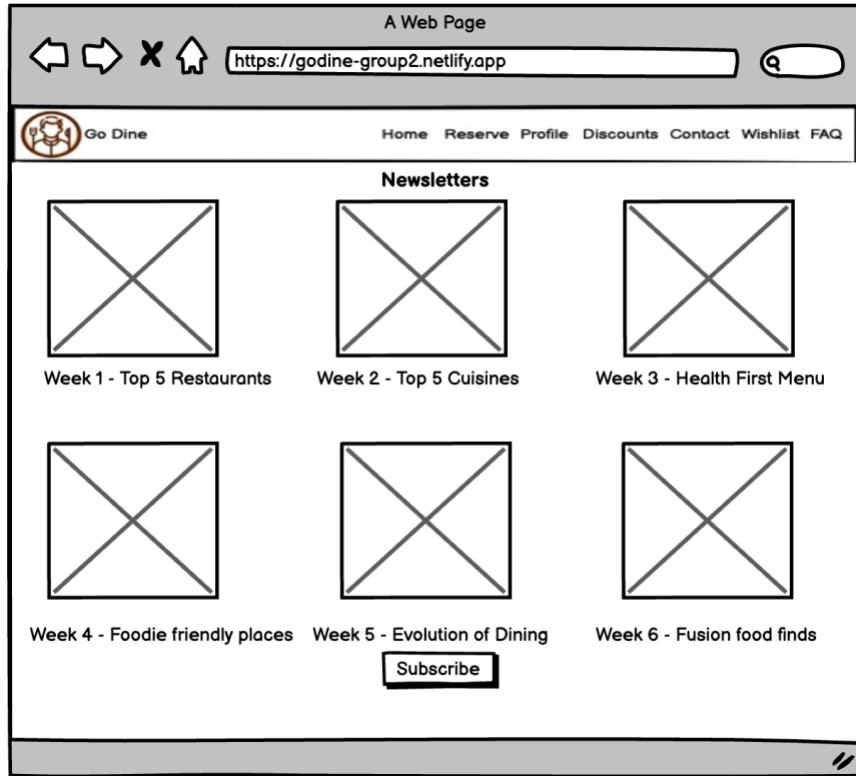


Figure 17: Wireframe applicable to Newsletter Subscription feature [2].

Search based discounts and promotions wireframes

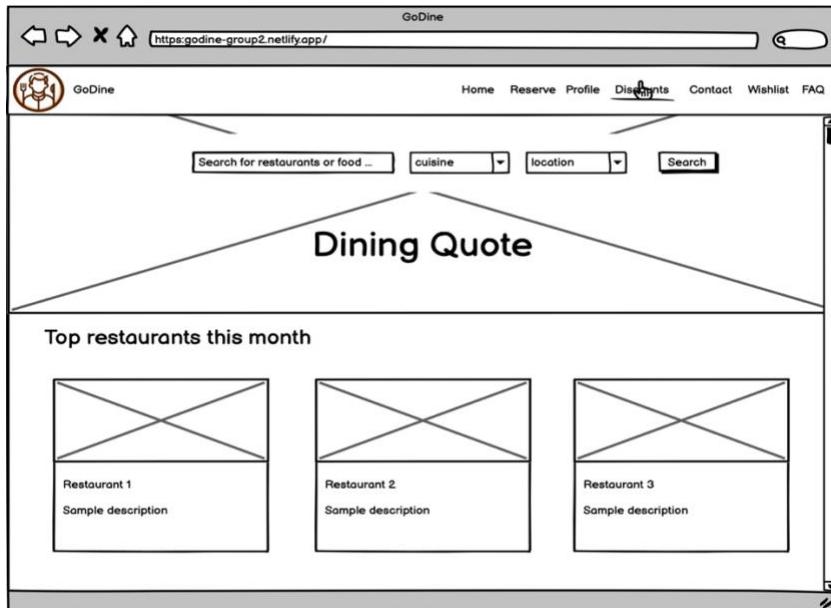


Figure 18: Wireframe for homepage while clicking on “discounts” button [2].

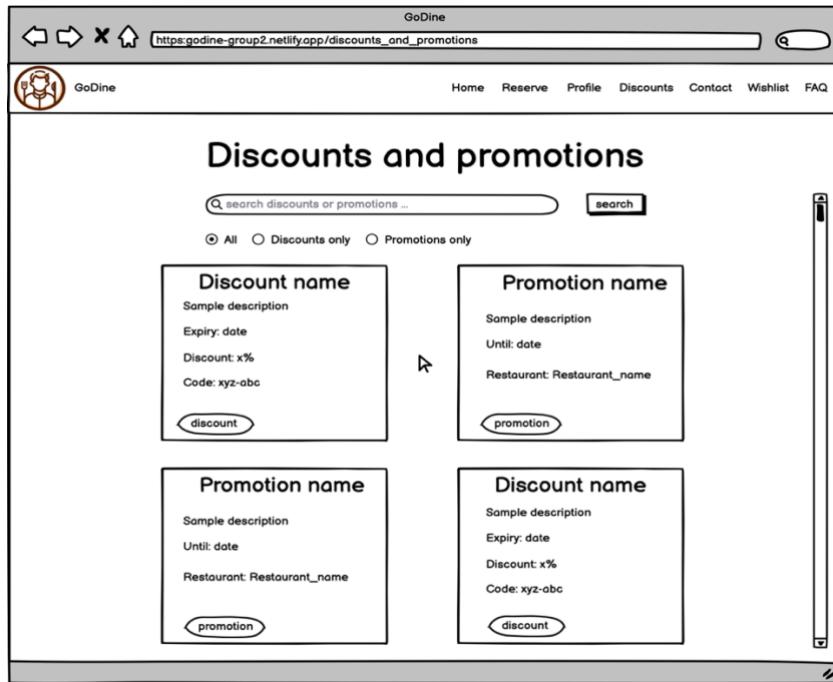


Figure 19: Wireframe for discounts and promotions page [2].

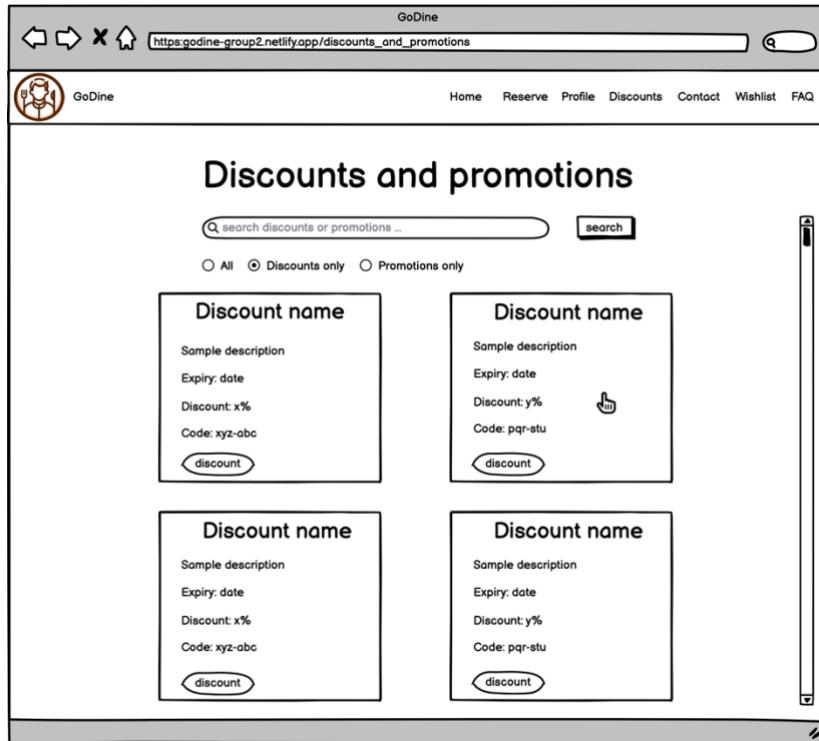


Figure 20: Wireframe for page with only discounts [2].



Figure 21: Wireframe for a specific discount card [2].

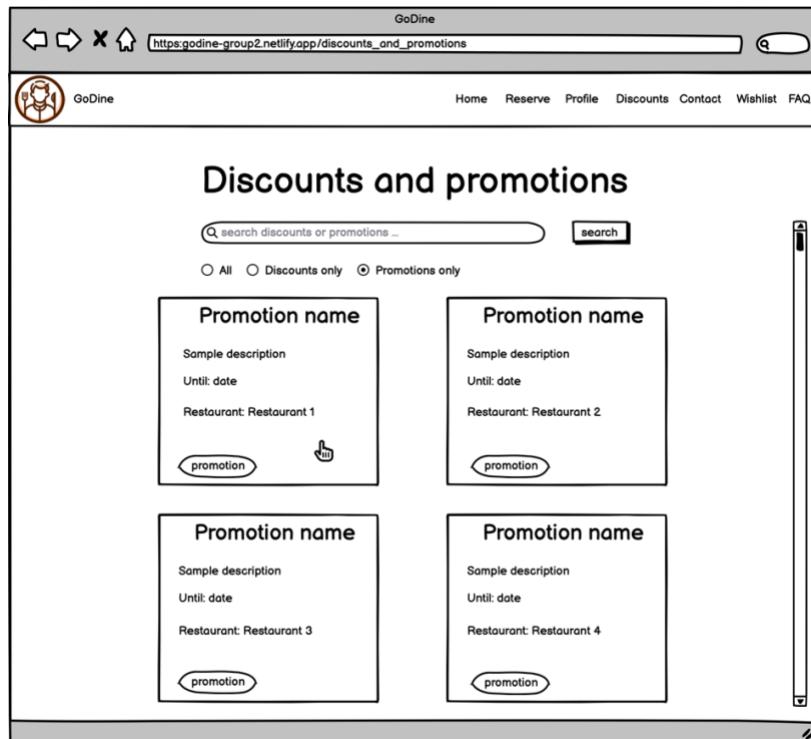


Figure 22: Wireframe for page with only promotions [2].



Figure 23: Wireframe for a specific promotion card [2].

Search and filter wireframe

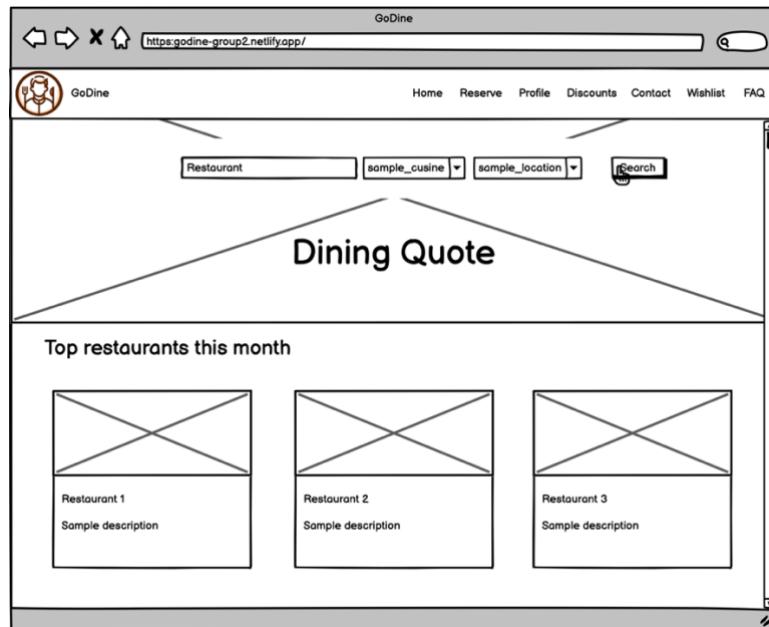


Figure 24: Wireframe for homepage with initial search values [2].

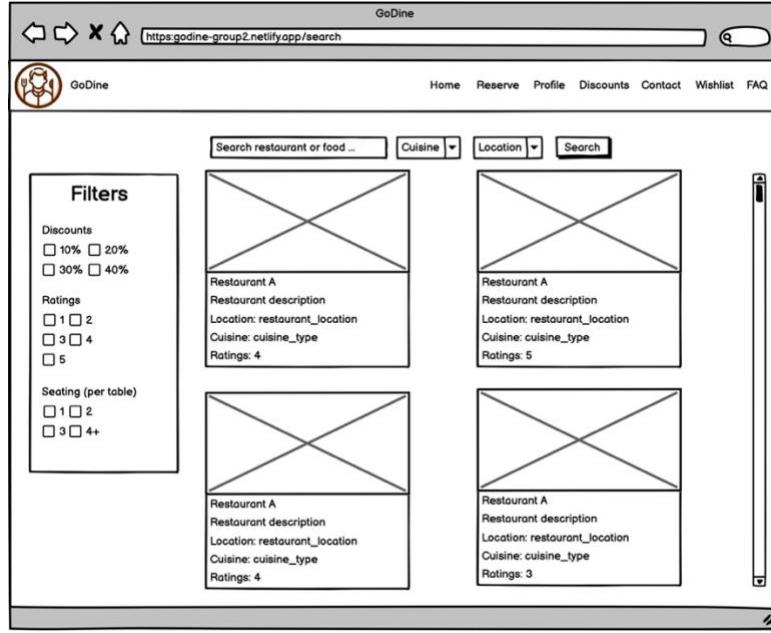


Figure 25: Wireframe for restaurant search page [2].

2.5.3 Website Design

Newsletter Subscription

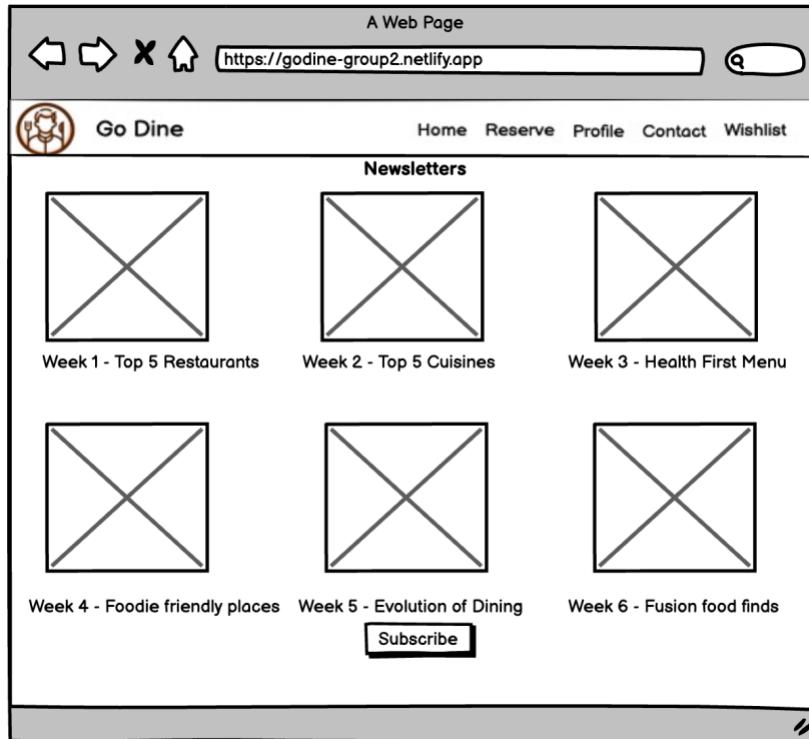


Figure 26: Wireframe applicable to Newsletter Subscription feature [2].

GoDine distinguishes itself in the cutthroat restaurant reservation market by providing an entire dining experience that extends beyond reserving a seat at upscale restaurants. Instead, it aims to enhance every aspect of dining, from discovering new establishments to relishing each mouthwatering mouthful. Customers can stay up to date on the newest developments in the dining industry by subscribing to the GoDine Newsletter. The website is designed with the user in mind, with an easily accessible navigation bar at the top and a prominent search tool for fast results. For simple access back to the homepage and brand awareness, the GoDine logo is placed strategically. To keep readers interested and coming back, the newsletter area is refreshed every week with fresh themes. Additionally, the 'Subscribe' button is strategically placed to promote instantaneous interaction, improving both user engagement and conversion rates.

Payment Management System

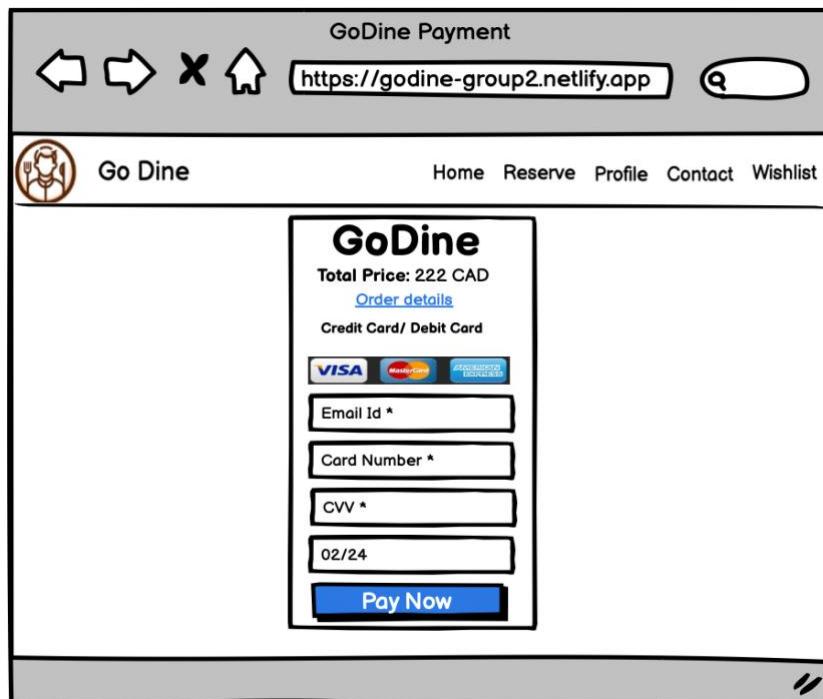


Figure 27: Wireframe applicable to Payment feature – Payment page [2].

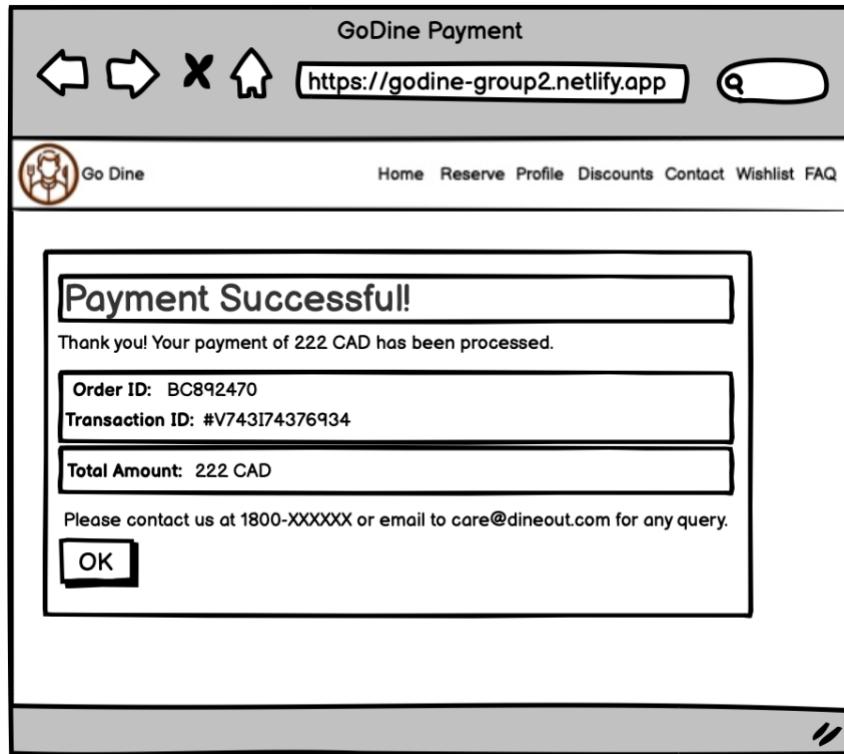


Figure 28: Wireframe applicable to Payment feature – Payment Successful page [2].



Figure 29: Wireframe applicable to Payment feature – Payment Unsuccessful page [2].

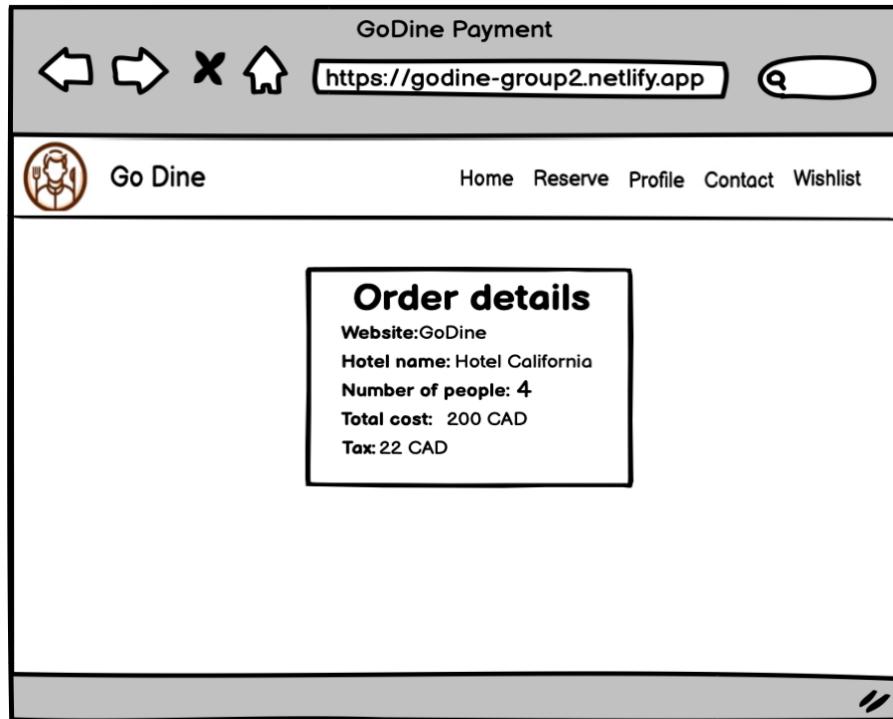


Figure 30: Wireframe applicable to Payment feature – order details page [2].

The above wireframes regarding the GoDine Payment introduce a seamless payment feature to ensure a flawless dining experience, from reservation to payment. The design emphasizes clarity and immediacy by highlighting payment status with a vibrant color scheme, presenting information in a logical order for easy comprehension, and ensuring the site's layout—with a prominently placed search bar and navigable menu—promotes user efficiency and accessibility. This approach, aligned with web standards, aims to simplify the user experience for both new and returning customers.

User Management System

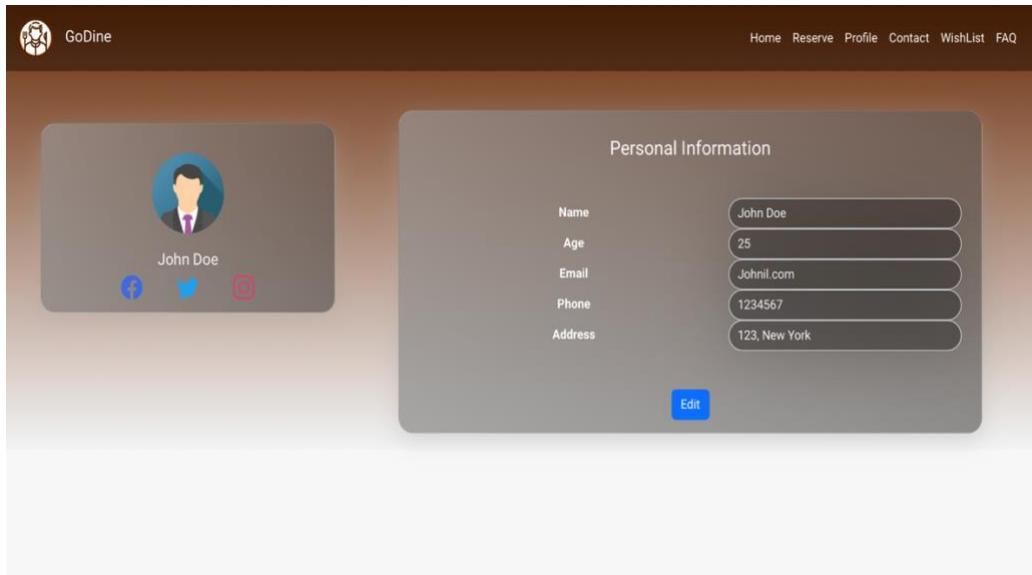


Figure 31: Webpage for ProfilePage.

The application's user profile interface uses a soft color scheme of browns and greys to produce a calm and polished feel, with an emphasis on user comfort and interaction clarity. To improve readability and user focus, the profile parts and personal information are highlighted in blue and grey against this calming background. Color-emphasized active navigation components, like the Profile page, help visitors engage with the system naturally and comprehend the part they are now in. By making edit options easily available and visually distinct, the design promotes user engagement with the user's personal data, creating an environment that is not only user-friendly but also complements the application's identity through its aesthetic choices. This strategy guarantees that users can easily access and customize their profile, improving the user experience overall with simple navigation and an emphasis on usability.

Restaurant Management

The wireframe displays the GoDine Restaurant Management Page. On the left, there's an 'Analytics Dashboard' section containing four boxes: 'Total Revenue \$5000', 'Average Order Value \$350', 'Customer Satisfaction 4.5/5', and a 'Sales Data' bar chart. Below these are sections for 'Customer Demographics' (a pie chart) and 'Popular Dishes' (a line chart). On the right, there's a 'Add Restaurant Details' form. It includes fields for 'Restaurant Name', 'Address', 'Pricing', 'Cuisine', 'Working hours', 'Contact Number', 'Seating capacity', and checkboxes for 'Accepts Reservations', 'Outdoor Seating', and 'Wifi Available'. There are also 'Upload Menu' and 'Upload Photos' file input fields, and a 'Submit' button at the bottom.

Figure 32: Wireframe applicable to Restaurant Management - Add restaurant details Page [2].

Adding functionality to add new restaurants and updating details of existing ones is essential to improving a platform's restaurant management capabilities. This feature guarantees that the database is kept up to date with correct restaurant offers, specializations, and contact information. The design philosophy places a strong emphasis on a user-centric approach where the most accessed information, analytics, is always readily available. This allows for a smooth transition from data analysis to action, such updating restaurant details. The "GoDine" logo is positioned to guarantee brand visibility while keeping the functionality of the user experience front and center. The platform avoids overloading users with extensive information by presenting data in an entertaining yet understandable manner with the integration of graphical components like pie charts and bar charts. By reducing distractions, a minimalist design strategy is used to improve user focus and productivity.

Additionally, the platform's architecture is made to be flexible and scalable, enabling simple additions and upgrades to meet the platform's expanding requirements while maintaining the effectiveness and efficiency of the restaurant management feature.

Home Page

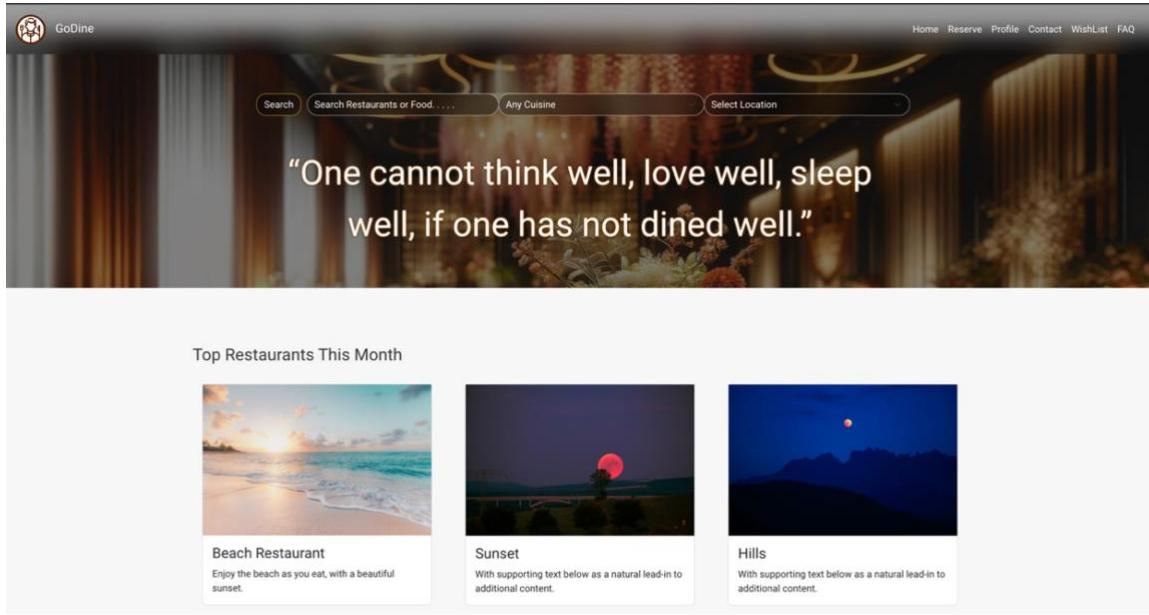


Figure 33: Webpage for Home page.

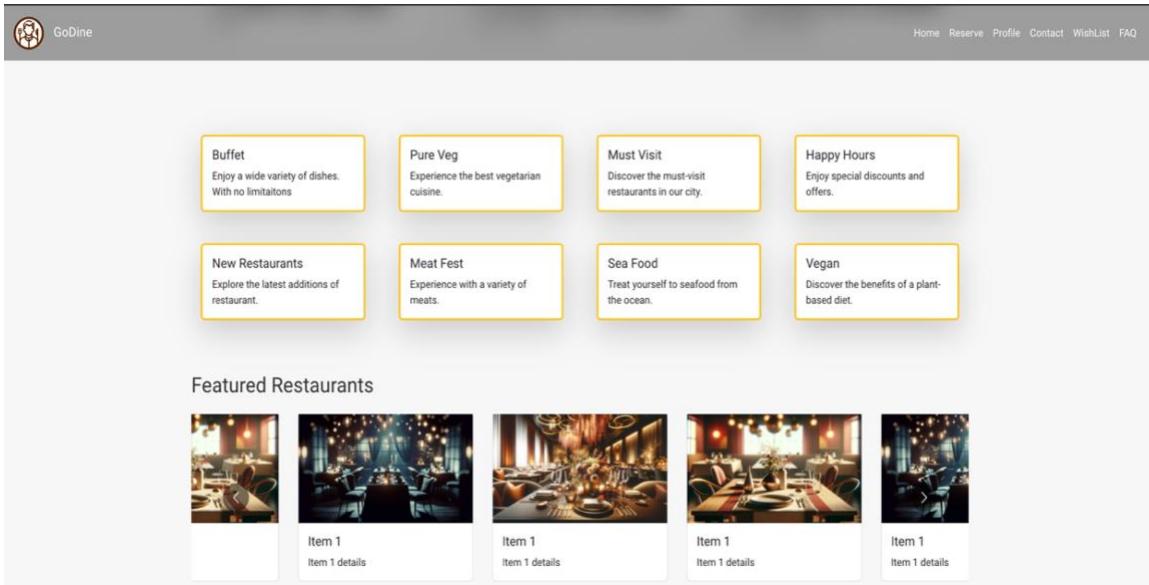


Figure 34: Webpage for Home page.

A refined brand identity targeted at diners seeking premium experiences is reflected in the GoDine homepage's elegant color scheme and typography, which are developed with a focus on user-friendliness and a robust feature set. The design places a high priority on facilitating seamless user interaction with eye-catching graphics and simple navigation that leads directly to reservation actions. It highlights a posh, exclusive ambiance and creates a sentimental bond with statements that associate food with happiness and wellbeing. The platform's functionality and accessibility are critical components that improve user engagement, make it simple for users of all technical backgrounds to explore, and build trust and a positive opinion of quality by projecting a polished image that promises delightful dining experiences.

Contact Page

The screenshot shows the contact page of the GoDine platform. At the top, there is a navigation bar with links for Home, Reserve, Profile, Contact, WishList, and FAQ. Below the navigation bar is a header with the GoDine logo and two tabs: 'User' (which is selected) and 'Restaurant Owner'. The main content area is titled 'User Form' and contains five input fields: 'First Name', 'Last Name', 'Email', 'Phone', and 'Message'. A blue 'Submit' button is located at the bottom of the form. The footer features a logo of a person eating, followed by four sections: 'Features' (with links to Our Features, Pricing, Affiliate Program, and Press Kit), 'Support' (with links to Account, Help, and Contact us), 'Legal' (with links to Privacy Policy and Terms of Use), and 'Social Media' (with links to Twitter, Product Hunt, Instagram, and Github).

Figure 35: Webpage for Contact Page.

Godine prioritizes a seamless and user-friendly experience across its platform, particularly evident in the design of its contact page, which embodies their commitment to customer satisfaction. The page features a versatile User Form that caters to both diners and restaurant owners, enabling them to effortlessly switch between options to provide their contact details and inquiries. This simplicity is complemented by a minimalist design, ensuring users can easily navigate and communicate without feeling overwhelmed.

Furthermore, the page is strategically integrated with the homepage, offering straightforward navigation through a comprehensive menu and footer links, covering everything from features and support to legal information and social media connections. This approach not only facilitates easy access and communication but also fosters a community-oriented atmosphere where feedback is encouraged, enhancing the overall dining discovery experience on the Godine platform.

Wishlist Page

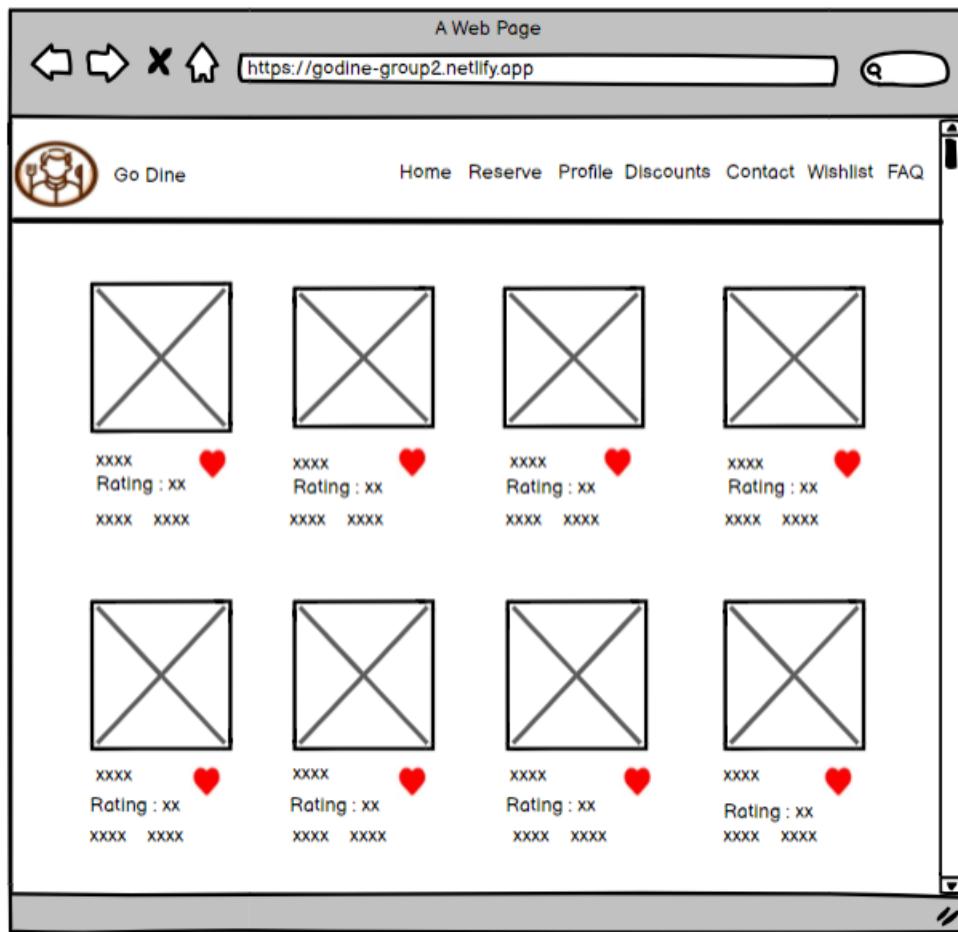


Figure 36: Wireframe for Wishlist [2]

GoDine's Wishlist feature is a game-changer for food enthusiasts of all levels, offering a personalized and visually engaging way to track and plan future dining experiences. The feature allows users to curate a gallery of restaurants they aspire to visit, with each entry detailed by vivid images, a heart icon for quick interest indication, and key information such as ratings and cuisine types. This intuitive and aesthetically pleasing layout ensures

users can easily navigate through their collection of potential dining spots, organized by dynamic tags that help filter choices according to culinary preferences or dietary needs.

Enhancing the Wishlist experience, GoDine incorporates user-friendly functionalities like one-click additions or removals, detailed ratings for making more informed dining decisions, and enticing visuals that preview the restaurant's ambiance. This Wishlist is seamlessly integrated within the GoDine platform, ensuring it's always within reach, no matter where you are on the site. It also serves as a collaborative planning tool, perfect for sharing with friends or family to facilitate group dining decisions. GoDine's Wishlist turns the anticipation of new culinary adventures into an easy, interactive, and enjoyable part of the dining discovery process, inviting users to explore, save, and savor their way through their culinary journey.

Authentication

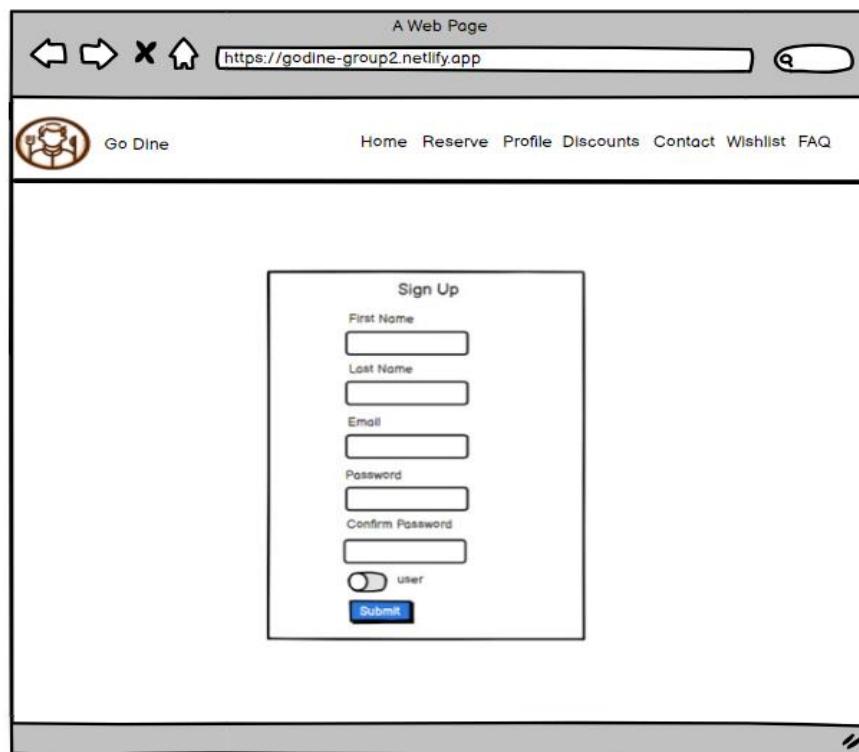


Figure 37: Wireframe applicable to Signup [2].

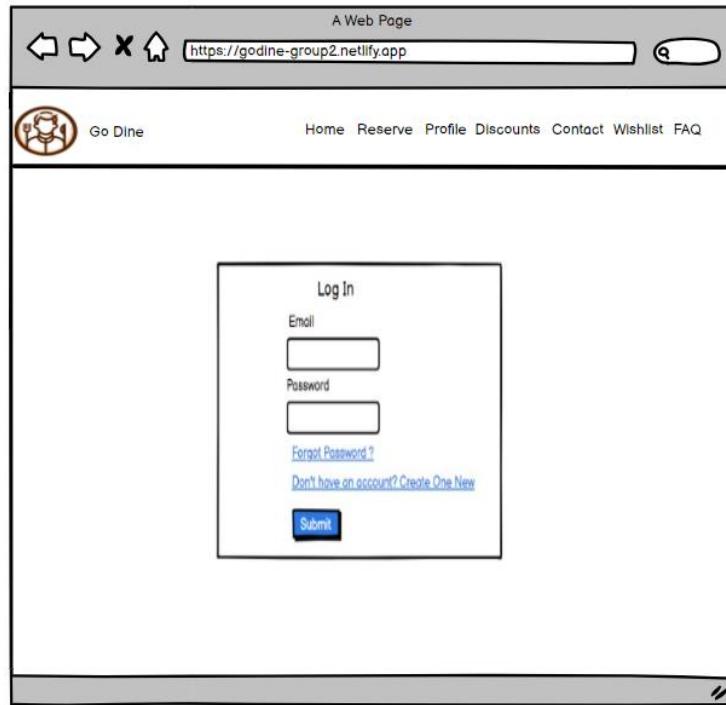


Figure 38: Wireframe for Login [2].

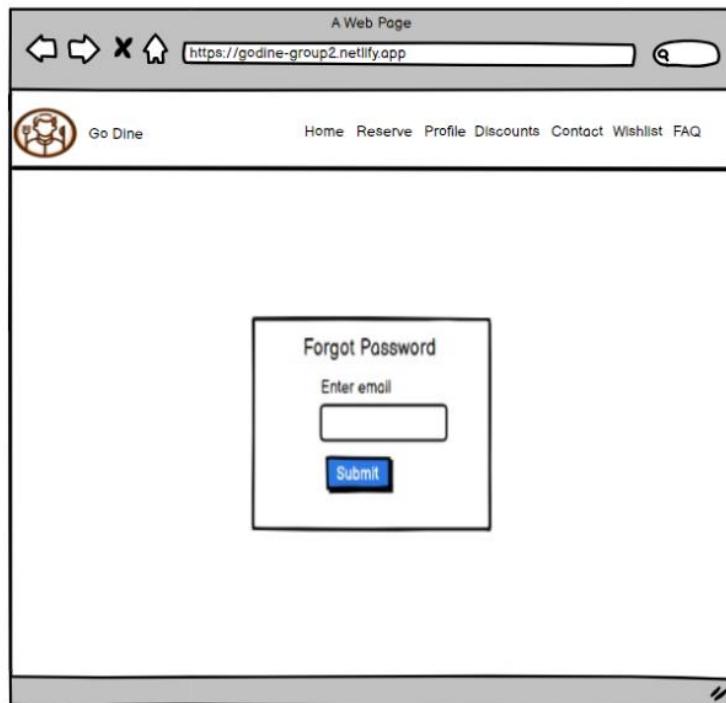


Figure 39: Wireframe for forgot password [2].

Authentication is a vital aspect of any User Management System (UMS), ensuring that individuals can safely create an account, log in, and recover their passwords. By utilizing strong encryption, the system ensures that passwords are never stored in plaintext. Instead, a securely encrypted hash is kept within the database to prevent unauthorized access.

Key Functionalities

Sign Up Page: Users can register by providing their first name, last name, email, and password. They might also choose a user type if the system requires different user roles.

Log In Page: Registered users can log in using their email and password. Links for password recovery and new account creation ensure users can easily access or create their accounts.

Forgot Password Page: Users who have forgotten their password can enter their email to initiate a password recovery process.

Table Reservation

The GoDine table reservation page design incorporates a user-centric approach, focusing on ease of navigation and information accessibility. At the top, essential details such as the restaurant's name, ratings, and pricing are immediately visible, ensuring that users have all the necessary information briefly. This is complemented by the location and hours of operation, which are essential for planning a visit. A trio of tabs - Overview, Menu, and Review - are strategically placed to provide in-depth details about the dining experience without overwhelming the user, facilitating a streamlined decision-making process.

The reservation interface is neatly organized, with a form that is both simple and intuitive as shown in right part of figure 40. Fields for personal information are accompanied by corresponding icons, which serve as visual cues to guide users through the process of booking a table. The guests, date, and time fields are designed with user-friendly controls, like drop-down menus and calendar widgets, to simplify the input process. Below the form, the Ratings & Reviews section is positioned to allow immediate feedback and engagement, demonstrating the site's commitment to transparency and customer interaction.

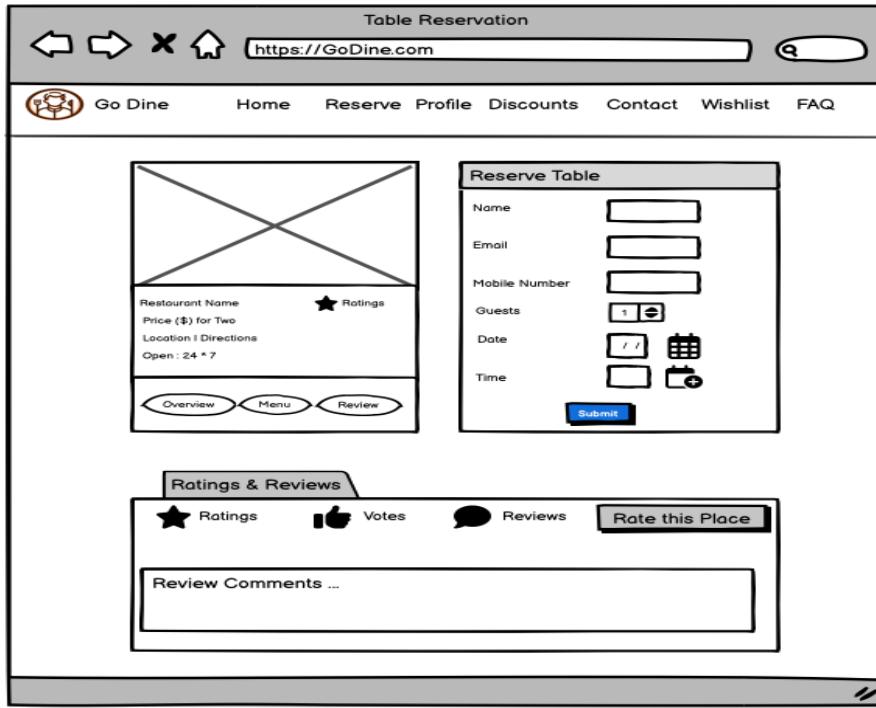


Figure 40: Wireframe of Table Reservation Page [2].

My Bookings Page: (Manage Bookings Component)

The "Manage Bookings" section of the GoDine as shown in figure 40 website serves as a central hub for customers to track and manage their dining reservations. Presented in a tabular format, it organizes reservations sequentially and displays key details such as the restaurant name, date, time, and status of the booking. Each entry is furnished with interactive icons for calendar and clock, intuitively indicating the ability to view the date and time specifics. The status column is visually coded—highlighting the reservation's state as "Waiting," "Approved," or "Cancelled"—which allows for quick status recognition immediately.

Functionality is a core aspect of this design, with action buttons such as "Review" and "Cancel" adjacent to each booking. This empowers users to quickly provide feedback or modify their reservations without navigating away from the page. The simplicity of the layout, combined with the interactive elements, ensures a smooth user experience by

minimizing the steps needed to manage bookings, reflecting a design that's both efficient and user oriented.

S.NO	Restaurant Name	Date	Time	Status	Review	Cancel
1	By the bay - Lounge	01/01/24	7:00 PM	Waiting	Review	Cancel
2	Tawa Grill	01/01/24	8:00 PM	Approved	Review	Cancel
3	Mirchi Tandoor	01/01/24	7:30 PM	Cancelled	Review	Cancel
4	Into the Sky - BAR	01/10/24	11:00 PM	Approved	Review	Cancel

Figure 41: Wireframe of Manage Bookings component on My Bookings Page [2].

My Bookings Page: (Review Bookings Component)

The "Leave a Review" component in the figure 42 of the GoDine website is designed for user interaction, focusing on gathering customer feedback. It pops up as a window on the screen without the need to navigate to another page for giving review. This design makes it user friendly, and it even presents a tiered rating system, where users can select from a range of one to five stars, providing a quantitative measure of their dining experience. Adjacent to the star ratings is a prompt inquiring whether users would recommend the restaurant to others, which is a yes-or-no question, likely used to gauge the customer's overall satisfaction and likelihood to promote the restaurant.

Beneath these options, there is a sizable text field where customers can compose a more detailed review. This space allows for elaboration on their rating and recommendation, enabling users to share specific aspects of their experience.

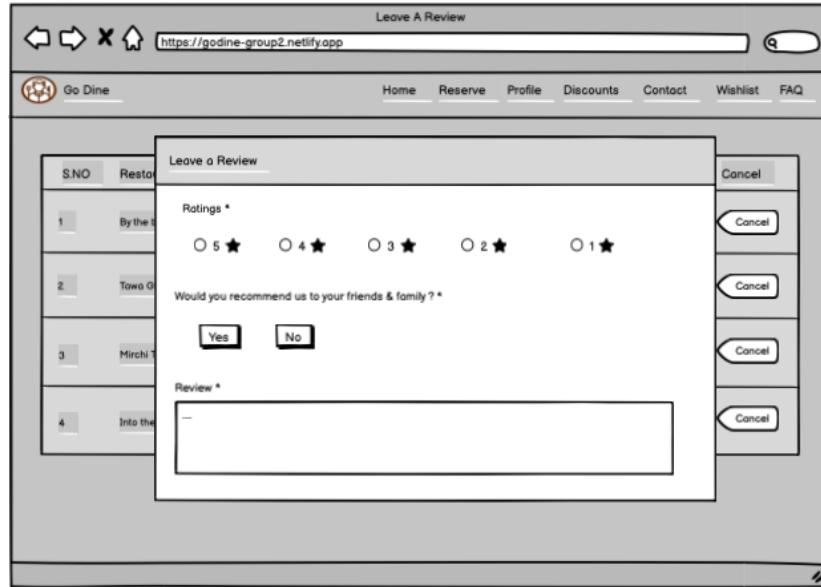


Figure 42: Wireframe of Review Bookings component on My Bookings Page [2].

FAQ page

The FAQ page was designed to keep it simple, clean and for users to find the questions that they might have easy to find as shown in figure 43. Each question has a toggle to open and close the answer part so that the user can easily focus on the question that they have currently in mind without cluttering the entire page.

Figure 43: FAQ page with sample questions and answers.

Discounts and promotions pages

The page was designed to allow the users to find all the information about discounts and promotions in one page. As the information increases, it becomes tedious to navigate through it, so we have added filters such as “Discounts only” and “Promotions only” for users looking for one or the other as shown in figures 43, 45 and 46. In situations, the user is aware of the discount or promotion name then they can use the search bar to find the information quickly. We have used cards to show the discount/promotion information to prevent users to navigate between another webpage and back to discounts page as shown in figures 47 and 48. In case the user wants to reserve at an eligible restaurant, we have added a reserve/make reservation button to the cards so they can be redirected to reservation page of that restaurant for quick access as shown in figures 47 and 48.

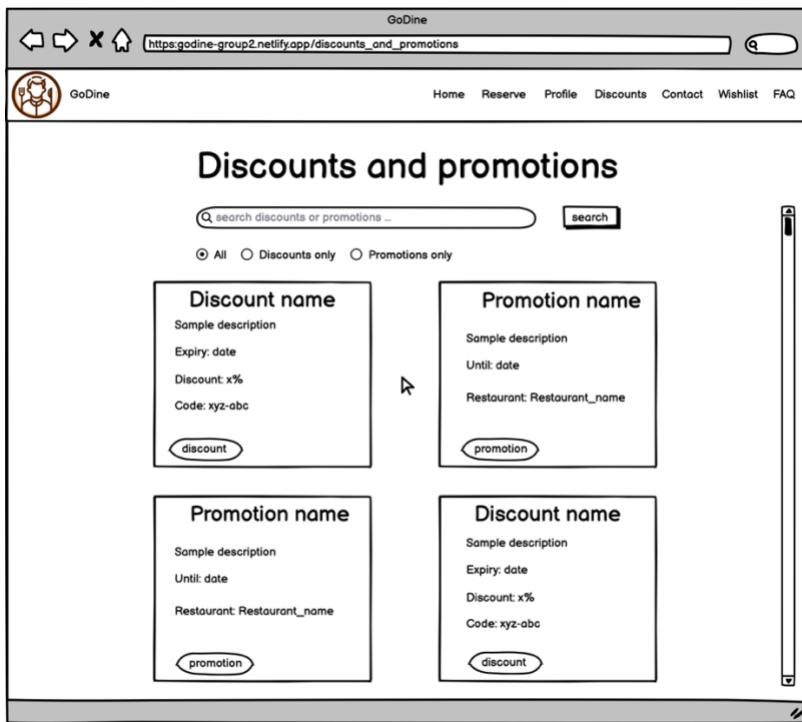


Figure 44: Wireframe of discounts and promotions page [2].

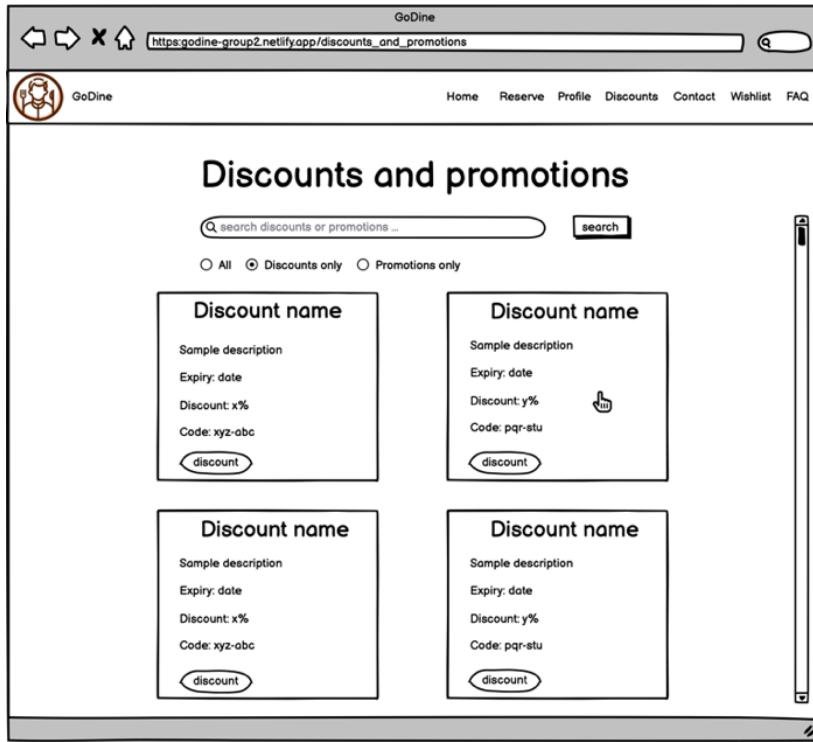


Figure 45: Wireframe of “discounts only” page [reference to balsamiq].

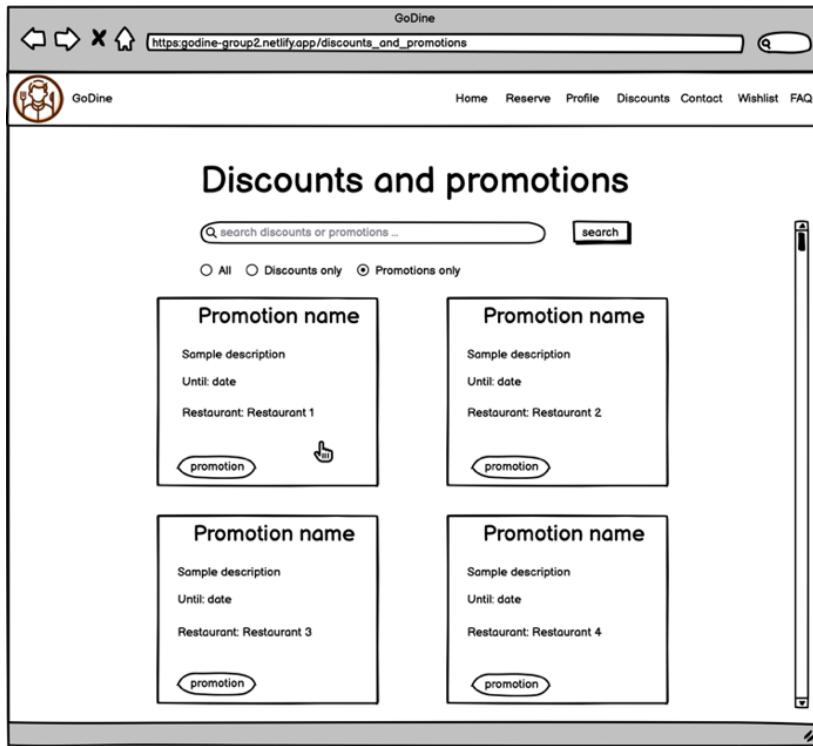


Figure 46: Wireframe for “promotions only” page [2].

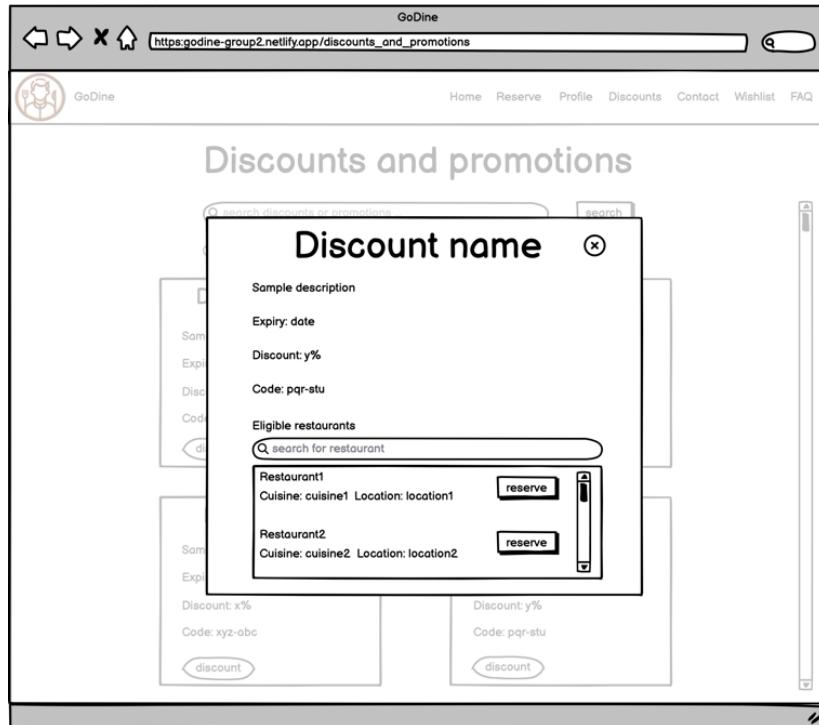


Figure 47: Wireframe of discount card [2].



Figure 48: Wireframe of promotion card [2].

Search results page

We provided a search option on the home page with three search criteria as per in figure 33, so that the user can start an initial search of restaurants based on requirements that are on top of their head. The goal of the search page was to provide all the restaurants in a compact and uncluttered manner, so the user can distinguish between filters, restaurants' information. There are filters provided to aid users to narrow down restaurant options as shown in figure 49. Upon clicking one of the restaurant's cards the user is redirect to table reservation page of the restaurant as shown in figure 40.

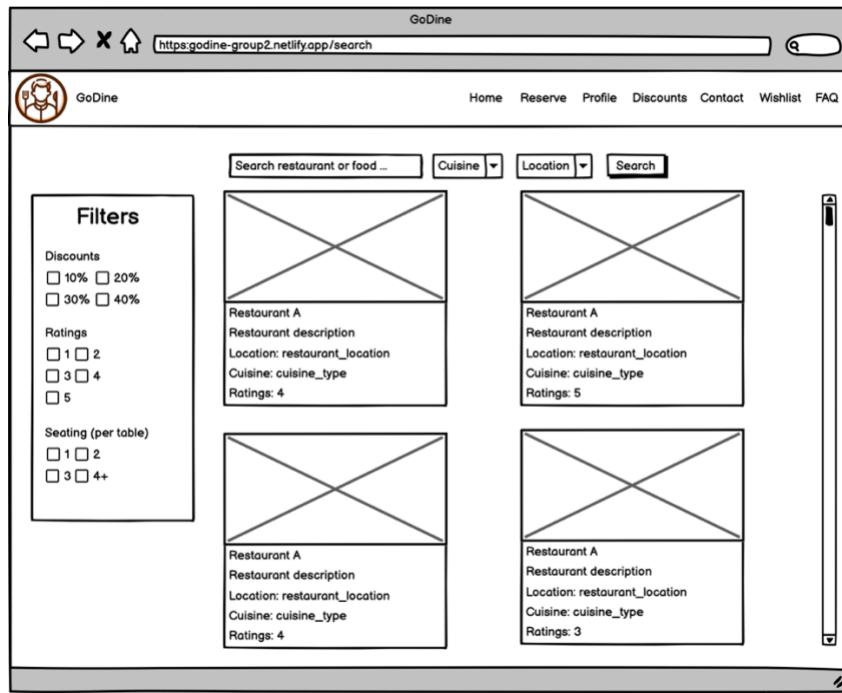


Figure 49: Wireframe for search results page [2].

2.6 User Experience

User Scenario – Sign up: Ravi wants to register for the GoDine website and tries to sign in into his account, He follows the use case process described below:

1. The user opens the web browser and enters the website address in the browser.
2. The web browser displays the landing page of the website; the user clicks on the profile on the nav bar.
3. The website redirects the user to the Sign in page.
4. The user clicks on the create account, website redirects to the signup page.

5. The user enters their First Name, Last Name Email address, Password, Confirm Password and User Role and Clicks on Sign-up button.
 - 5.1. The alerts the user that All fields are required.
 - 5.1.1. Website allows the user to enter all fields.
 - 5.1.2. The user enters all fields in the form.
 - 5.2. The alerts the user that the First Name and Last Name must not empty.
 - 5.2.1. Website allows the user to enter their first name and last name.
 - 5.2.2. The user enters a valid username.
 - 5.3. The alerts the user that the Invalid email format.
 - 5.3.1. Website allows the user to enter the email address.
 - 5.3.2. The user enters a valid email address.
 - 5.4. The alerts the user that the Password must be at least 8 characters long and include uppercase letters and numbers.
 - 5.4.1. Website allows the user to enter the Password.
 - 5.4.2. The user enters a valid Password.
 - 5.5. The system alerts the user that their Passwords do not match.
 - 5.5.1. The website allows the user to re-enter confirm password.
 - 5.5.2. The user confirms the password, and it matches the password.
6. The user clicks the Sign-up button.
7. The website accepts the user information, registers the user, and the system redirects to the sign in page.

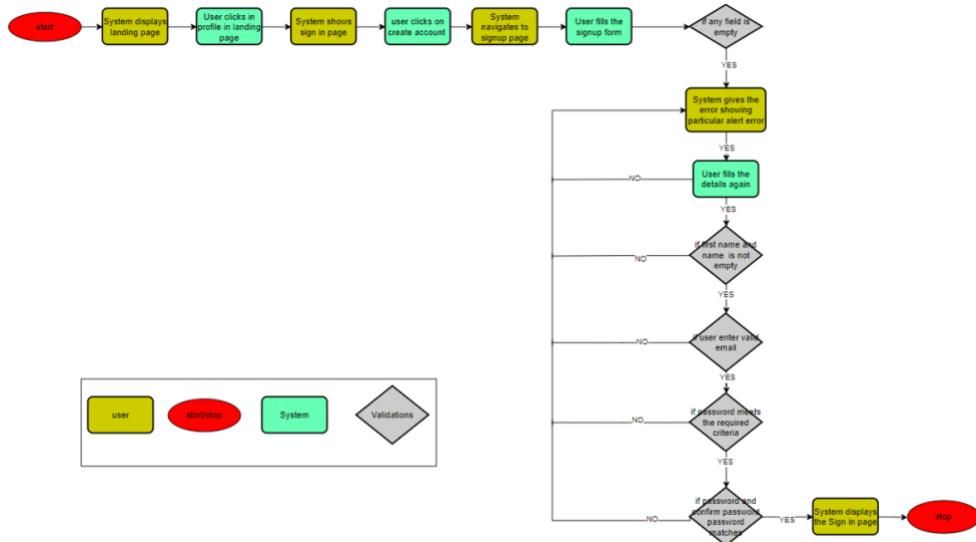


Figure 50: Task flow for Sign up [1].

User Scenario – Login: Ram is an existing user of the GoDine website and tries to login into his account, He follows the use case process described below:

1. The user opens the web browser and enters the website address in the browser.
2. The web browser displays the landing page of the website; user clicks on the profile on the nav bar.
3. The website redirects the user to Login page.
4. The user enters their email address and password.
 - 4.1. The alerts the user that Email and password cannot be empty.
 - 4.1.1. The user enters all fields in the form.
 - 4.2. The user is alerted that the email address is invalid.
 - 4.2.1. The user enters a valid email.
 - 4.3. The user is alerted that Invalid credentials.
 - 4.3.1. User enters the correct credentials.
 - 4.4. The user is alerted that the account doesn't exist.
 - 4.4.1. The user clicks the Sign-up button.
5. The user clicks the Login button.

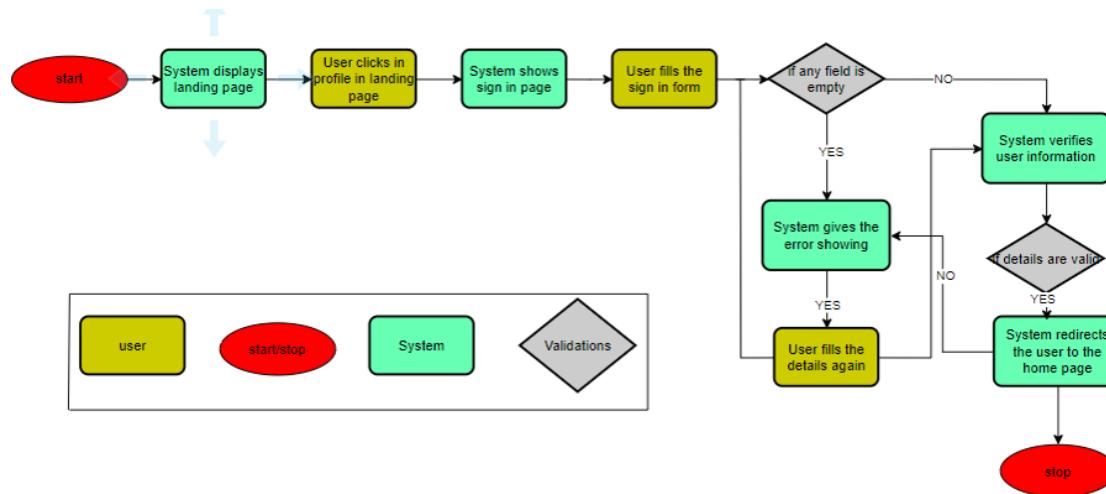


Figure 51: Task flow for Sign in [1].

User Scenario – Forgot Password: Sam is an existing user of the GoDine website and tries to login into his account. He enters his username but forgets his password. So, to retrieve his password, he follows the use case process described below:

1. The user opens the web browser and enters the website address in the browser.
2. The web browser displays the landing page of the website; user clicks on the profile on the nav bar.
3. The website redirects the user to the Login page.
4. If User forgot their password, user clicks Reset Password.
5. The website redirects the user to the Forgot Password page.
6. The user enters their email address.
 - 6.1. The alerts that No account found with that Email.
 - 6.1.1. The user enters the valid email.
7. The user clicks the reset password button; the system displays alert that A password reset link has been sent to your registered email.

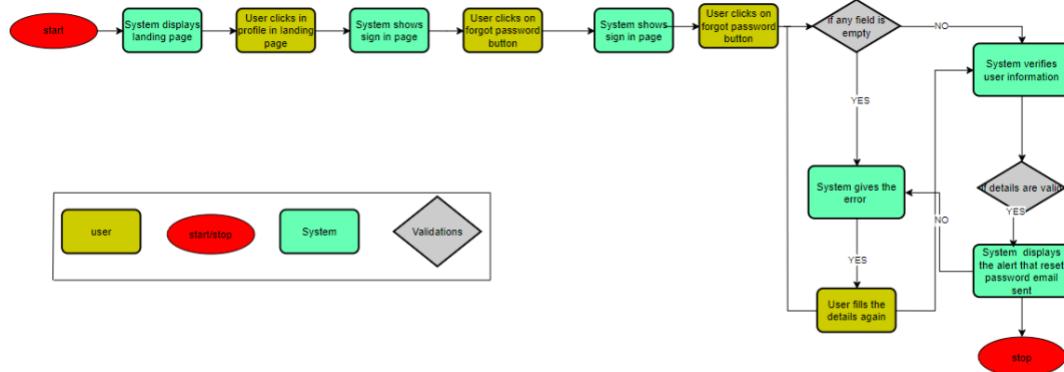


Figure 52: Task flow for Forgot Password [1].

User Scenario – Adding the restaurant to the Wishlist.: Sam is an existing user of the GoDine website, and he wants to add his favorite restaurant to the Wishlist. So, he follows the use case process described below:

1. System shows Home Page, once user sign in successfully.
2. User search and filter the restaurant's based on user preferences.
3. System shows the list of restaurants in which consists of Wishlist symbol on the cards.
4. If user checks the Wishlist on the restaurants.
 - 4.1. System trigger by highlighting the Wishlist in red color.
5. user can select the Wishlist on the Nav bar.
6. System redirects to Wishlist Page.
7. Users scroll the Wishlist page where user find user's Wishlist restaurants.

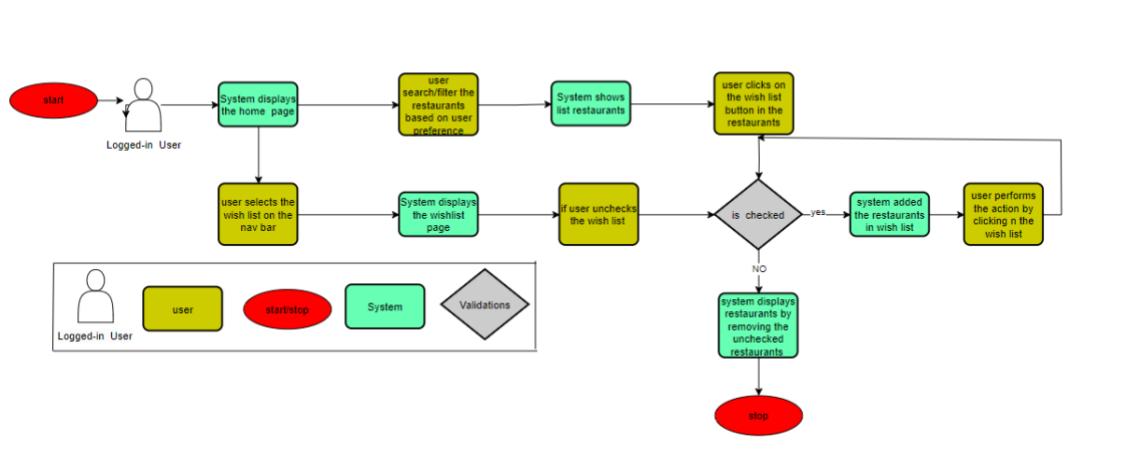


Figure 53: Task flow for Adding the restaurant in the Wishlist [1].

User Scenario – Removing the restaurant to the Wishlist: Sam is an existing user of the GoDine website, and he wants to remove his favorite restaurant from the Wishlist. So, he follows the use case process described below:

1. System shows Home Page, once user sign in successfully.
2. User search and filter the restaurant's based on user preferences.
3. System shows the list of restaurants in which consists of Wishlist symbol on the cards.

4. If user uncheck the Wishlist on the restaurants.
 - 4.1. System trigger by highlighting the Wishlist in black color.
5. User can select the Wishlist on the Nav bar.
6. System redirects to Wishlist Page.
7. Users scroll the Wishlist page where user find user's Wishlist restaurants.
8. User can uncheck the Wishlist on the restaurant's cards in Wishlist page.
 - 8.1. System displays the Wishlist Page by removing the unchecked restaurants.

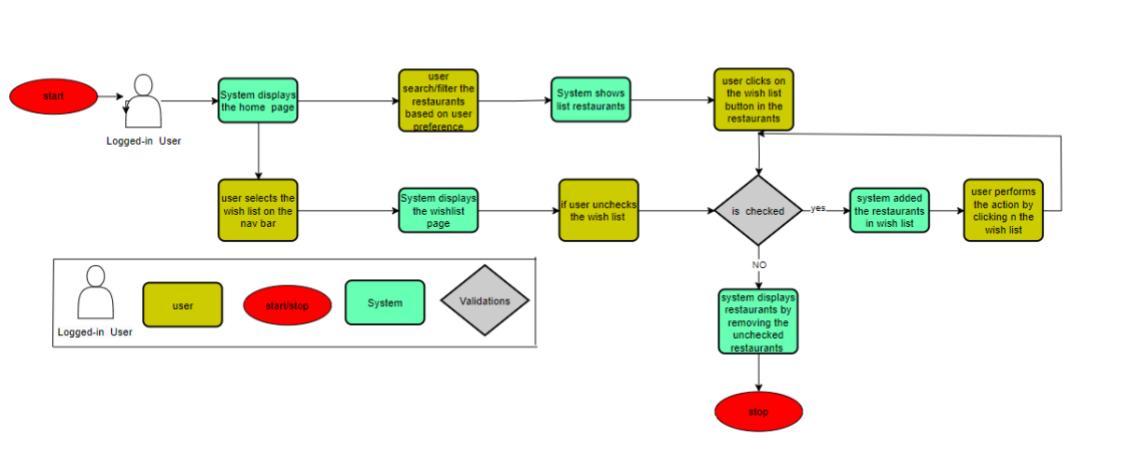


Figure 54: Task flow for Removing the restaurant in the Wishlist [1].

User Scenario - Table Reservation: Emily, a food enthusiast, is planning a dinner with friends to celebrate her birthday and she decides to use the GoDine platform to book a table at her favourite restaurant in advance. She has already created an account on GoDine and is logged in. She must follow below use case process:

1. Logged-In Consumer selects a restaurant to book from the GoDine platform.
2. The system displays the restaurant booking page.
3. The consumer fills out the reservation form with required details such as date, time, number of guests, name, mobile number, and email.
4. The consumer submits the form.
5. The system validates the form inputs.
6. If the date and time field is empty:

- 6.1. The system highlights the date and time field with a red border and prompts the consumer to provide the necessary information.
 - 6.2. The consumer fills in the date and time and resubmits the form.
 - 6.3. System revalidates the input.
7. If the name field is empty:
 - 7.1. The system highlights the name field with a red border and requests the consumer to fill it in.
 - 7.2. The consumer provides the name and resubmits the form.
 - 7.3. System revalidates the input.
8. If the mobile number is empty or follows the wrong format:
 - 8.1. The system highlights the mobile number field with a red border and asks for a valid mobile number.
 - 8.2. The consumer enters a valid mobile number and resubmits the form.
 - 8.3. System revalidates the input.
9. If the email is in the wrong format:
 - 9.1. The system highlights the email field with a red border and requests a valid email address.
 - 9.2. Consumer inputs a correctly formatted email and resubmits the form.
 - 9.3. System revalidates the input.
10. If no errors exist and all validations are passed, the System confirms the reservation and displays a message, "Form is filled successfully," and the process ends .

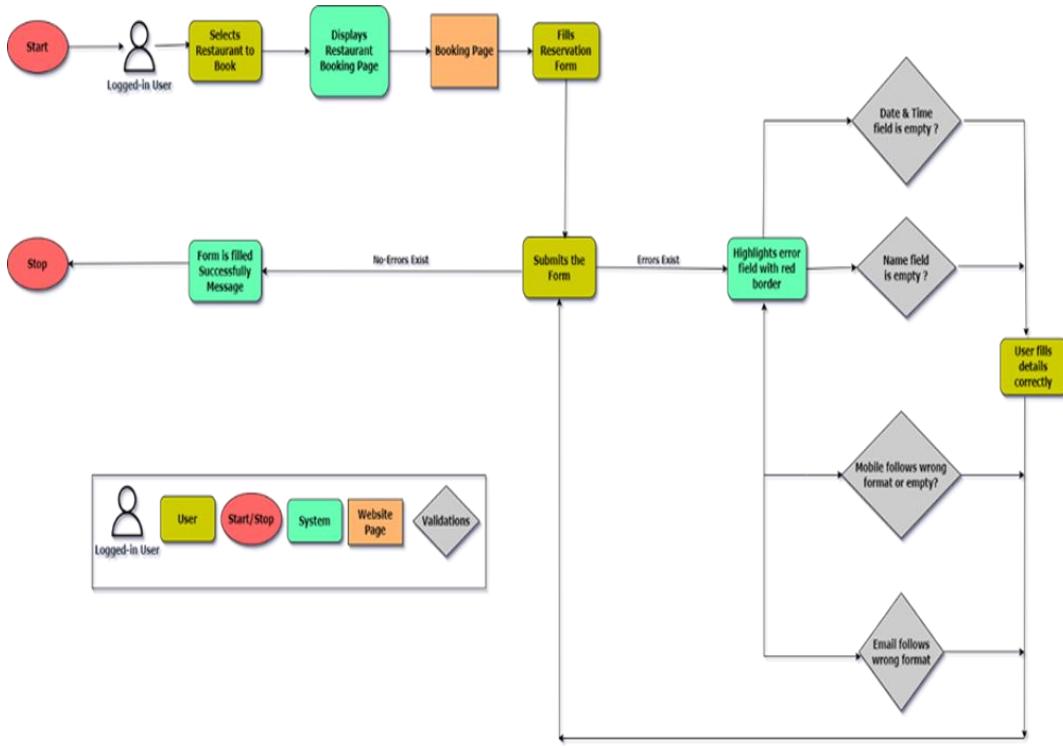


Figure 55: Task flow applicable to Table Reservation [1]

User Scenario - Managing Bookings: Alex, a regular user of the GoDine platform, has made multiple reservations for the upcoming month. However, due to a change in plans, Alex decides to cancel one of the bookings. He must follow below use case process:

1. Consumer logs into their GoDine account to review their bookings.
2. System displays the "My Bookings" page listing all past and upcoming reservations with their status (e.g., Waiting, Approved, Declined).
3. Consumer selects a booking and chooses to cancel it by clicking the "Cancel Booking" button.
4. System prompts the consumer with a confirmation box to confirm the cancellation.
 - 4.1. If the consumer selects "NO", the system returns to the "My Bookings" page.
 - 4.2. If the consumer selects "YES", the system processes the cancellation.
5. System updates the booking status to "Cancelled" and displays a message, "Reservation Cancelled Successfully."

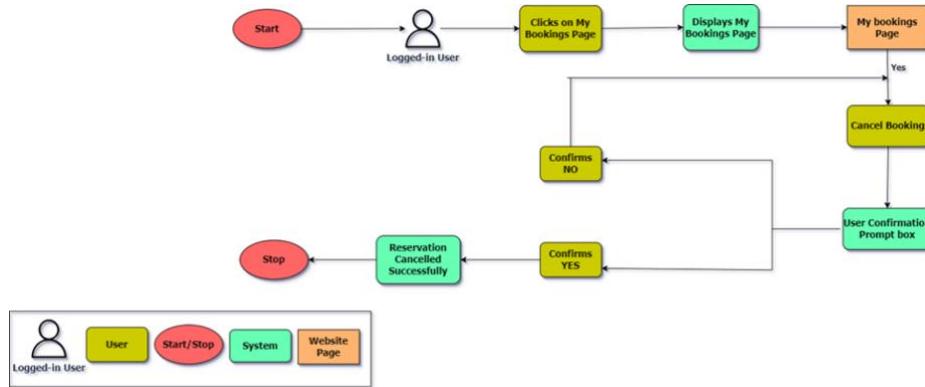


Figure 56: Task flow applicable to Manage bookings on My Bookings Page [1].

User Scenario - Review Bookings: After enjoying a delightful meal with her family at a local Italian restaurant booked through GoDine, Anna decides to leave a review and rating for the restaurant. He must follow below use case process:

1. Consumer logs into their GoDine account to give review to their past bookings.
2. System displays the "My Bookings" page listing all past bookings with a review option enabled beside each booking.
3. Consumer selects "Review" button next to the restaurant they wish to give review from their past booking history.
4. System prompts the consumer with a "Leave a Review" form on the screen.
5. Consumer selects the number of stars and types their review into the text box provided and clicks on "Submit Review" button.
6. System Validates the Input:
 - 6.1. If the rating is not selected, the system highlights the rating section, prompting the consumer to select a rating.
 - 6.2. If the review text box is empty, the system highlights the review text box, requesting the consumer to write a review.
7. System updates the booking status to "Cancelled" and displays a message, "Reservation Cancelled Successfully."

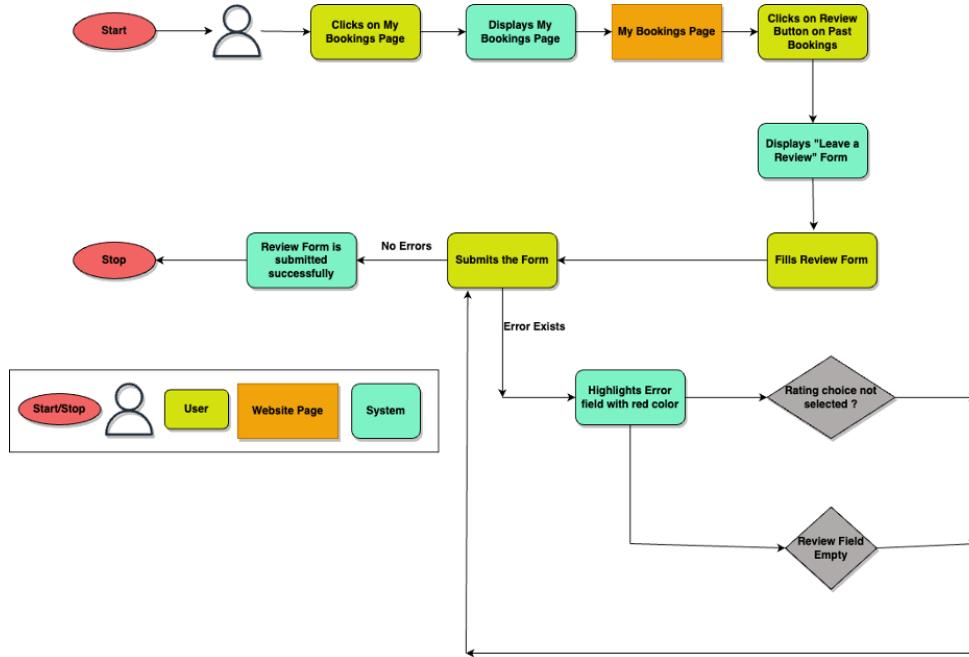


Figure 57: Task flow applicable to Review bookings on My Bookings Page [1].

User Scenario – Add Restaurant details:

A busy Italian restaurant in the middle of the city is owned by Eduardo Rossi. Eduardo has a strong desire to deliver outstanding dining experiences, and he is constantly seeking methods to enhance the restaurant's operations and promotions. Eduardo uses a secure login and password to access the restaurant management system first thing in the morning. The special menu for the day, Eduardo visits the restaurant's profile. Eduardo uploads a new picture of the special dish and modifies the menu prices using the user-friendly interface. Eduardo goes over each day's reservations, looking for any unique demands from clients that require consideration. Eduardo utilizes the system to keep an eye on new reservations throughout the day. Eduardo makes sure that the kitchen and floor staff are ready for the anticipated evening rush, considering the quantity of reservations.

1. Restaurant owner logs into their GoDine account.
2. The system displays the "My Restaurant" page, which includes an "Add Restaurant Details" form and an analytics dashboard.
3. The system presents a form requesting information such as restaurant name, address, cuisine type, seating capacity, opening hours, and photos.

4. The owner fills in all the fields with their restaurant's details and uploads photos, then clicks the "Submit" button.
5. The system validates the entered information. If any information is missing or incorrect, it prompts the user to correct it.
 - 5.1. If mandatory fields are missing, the system displays an error message, "Please complete all required fields," and highlights the missing fields. The owner must fill in the missing information and resubmit.
 - 5.2. If some fields are in the incorrect format (e.g., phone number, ZIP code), the system shows an error, "Please match the requested format". The owner corrects the formats and resubmits.
6. Upon successful validation, the system saves the details to the restaurant's profile and displays a confirmation message, "Restaurant details added successfully."

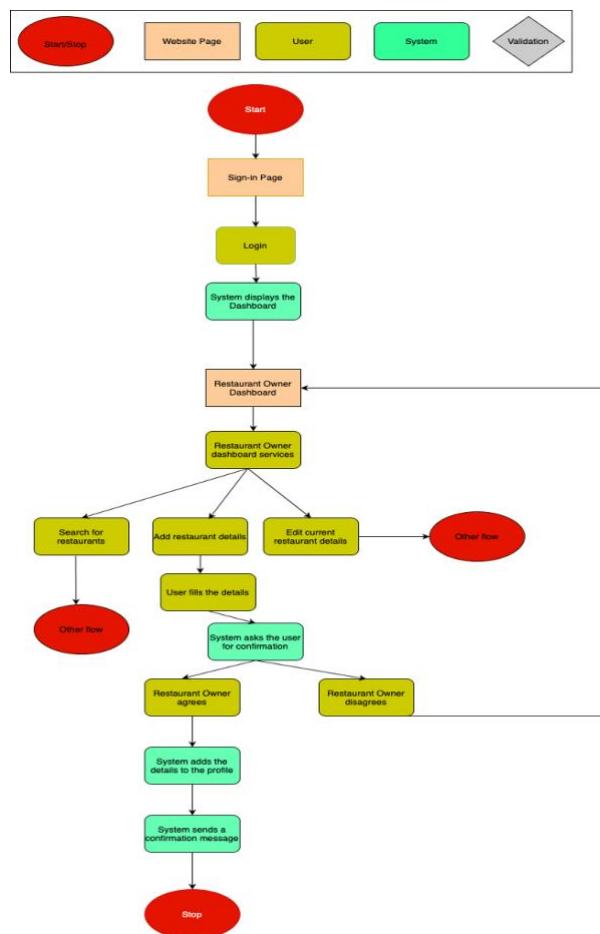


Figure 58: Task flow applicable to Add Restaurant Details on Restaurant Management Page [1].

User Scenario – Edit Restaurant details:

Eduardo is proactive in enhancing the restaurant's operations and marketing efforts to attract more diners. He decides to include more items in the menu. Eduardo decides it's time to update his restaurant's details on their online profile to reflect recent changes and attract new customers. This includes revising the restaurant's description and showcasing new menu items.

1. The restaurant owner logs into their GoDine account.
2. The system displays the My Restaurant page.
3. The owner clicks on "Edit Details".
4. The system presents a form pre-filled with the existing restaurant details, allowing the owner to update any information such as new opening hours, changed seating capacity, or updated photos.
5. The owner makes the necessary updates and clicks the "Save Changes" button.
6. The system validates the updated information.
 - 6.1. If mandatory fields are missing after the update, the system displays an error message, "Please complete all required fields," and highlights the missing fields. The owner must fill in the missing information and resubmit.
 - 6.2. If some fields are in the incorrect format after the update (e.g., phone number, ZIP code), the system shows an error, "Please check the format of the highlighted fields." The owner corrects the formats and resubmits.
 - 6.3. If the updated restaurant name conflicts with another existing name in the system, the system displays a message, "Restaurant name already exists. Please choose a different name." The owner inputs a new name and resubmits.
7. Upon successful validation, the system updates the restaurant's profile with the new details and displays a message, "Restaurant details updated successfully."

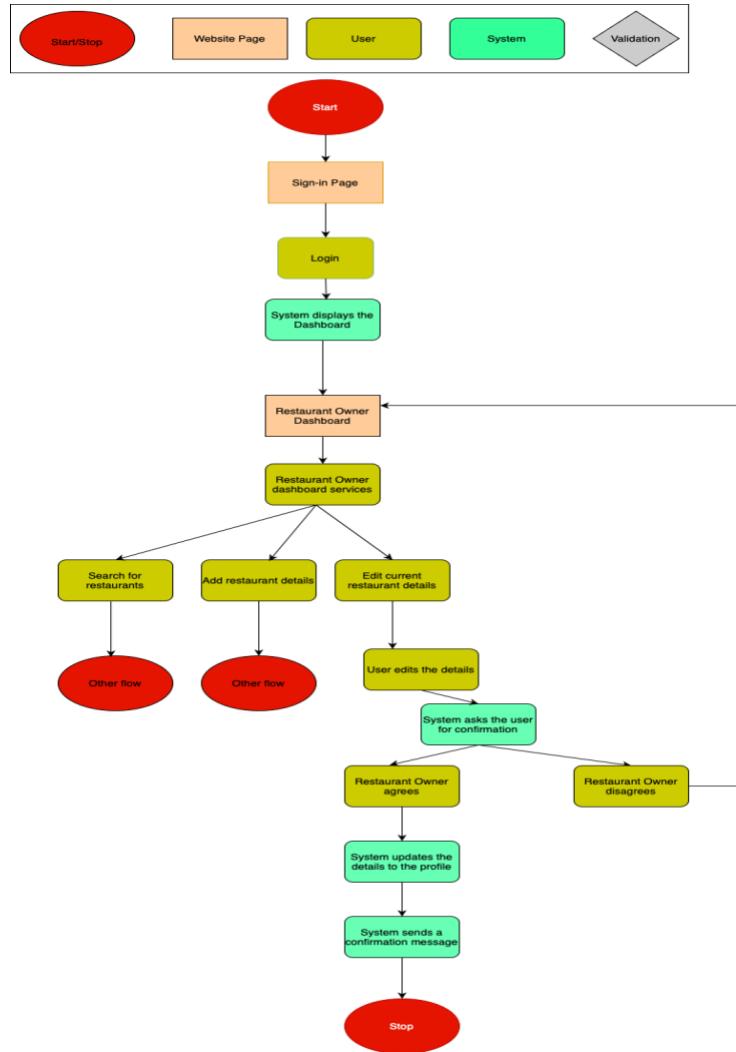


Figure 59: Task flow applicable to Edit Restaurant Details on Restaurant Management Page [1].

User Scenario – Viewing and Subscribing to a Newsletter:

On a busy Wednesday afternoon, Daniel, a financial analyst, and a food enthusiast who works in downtown Chicago, decides to use the GoDine app during his lunch break. His objective is to stay informed about the newest restaurants and food trends without actively seeking out this information. Daniel is especially looking for food-related events and healthy dining options that he can go to on the weekends or after work.

Intrigued by the weekly email feature that offers insights into the city's dining setting, He plans to sign up for the newsletter so that he can get updates directly to his inbox. Daniel thinks this will make it easier for him to schedule his meals and discover new restaurants that align with his preferences.

1. Daniel logs into the GoDine application.
2. The app displays the main dashboard with various options.
3. Daniel selects the 'Newsletter' option from the menu.
4. The system shows a page with a sample of the GoDine newsletter.
5. Daniel views the sample newsletter.
6. Satisfied with the content, Daniel clicks on 'Subscribe' to receive the newsletters.
7. The system confirms the subscription and indicates that newsletters will be sent to Daniel's registered email.
8. Daniel accidentally clicks 'Unsubscribe' button in the user profile page.
 - 8.1. The system asks for confirmation to unsubscribe.
 - 8.2. Daniel clicks 'Cancel' on the unsubscribe prompt.
 - 8.3. The system retains Daniel's subscription and returns to the newsletter page.
9. The system updates his subscription status and sends a welcome email to Daniel's registered email address.
10. Daniel checks his email inbox and finds the welcome email from GoDine.
11. If Daniel does not find the welcome email in his inbox.
 - 11.1. The system has a 'Resend Email' option in the newsletter subscription confirmation page.
 - 11.2. Daniel clicks 'Resend Email'.

- 11.3. The system resends the welcome email to Daniel's registered email address.
12. Each week, Daniel checks his email inbox for the new GoDine newsletter.
13. The system automatically sends the weekly newsletter to Daniel's registered email address.

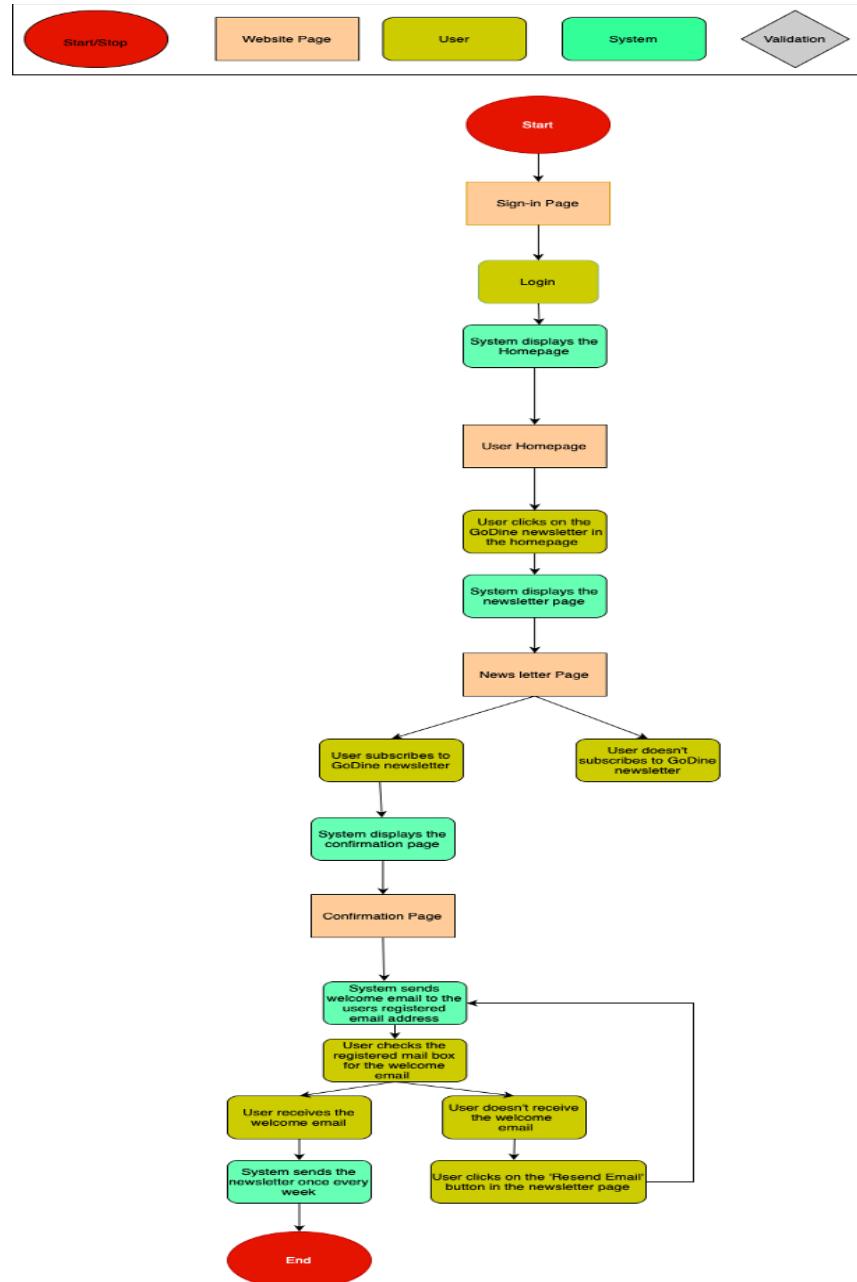


Figure 60: Task flow diagram applicable to Viewing and Subscribing to a Newsletter task [1].

User Scenario – Payment Gateway:

Jessica is a 35-year-old freelance graphic designer and food lover. For the occasion of her and her husband's fifth wedding anniversary, Jessica has been planning to organize a special dinner. She has used the GoDine app to explore a number of fancy Indian restaurants and has located the ideal one with a vegetarian cuisine that accommodates their dietary requirements and a wonderful atmosphere. Due to the restaurant's popularity and limited availability, Jessica wants to make sure her reservation is confirmed by paying through the app. She wants a seamless and reliable payment experience and appreciates the ease and security of managing transactions online.

1. Customer initiates the payment process after selecting a restaurant and booking details.
2. The GoDine system offers debit cards and credit cards as payment methods.
 - 2.1. The customer chooses their preferred payment gateway.
 - 2.1.1. Cardholder inputs email address, card number, expiry date, and CVV.
 3. GoDine securely transmits payment information to the selected gateway.
 4. Payment gateway verifies transaction details and verifies from the bank account.
 5. Upon verification of the payment:
 - 5.1. If the Credit Card or Debit Card payment is successful:
 - 5.1.1. A payment confirmation message is displayed.
 - 5.2. If the Credit Card or Debit Card payment is unsuccessful:
 - 5.2.1. If the payment transaction fails for any reason (such as insufficient funds, inaccurate card information), the system informs the customer with a failed transaction notice and requests that they attempt making the payment again or choose another payment method.

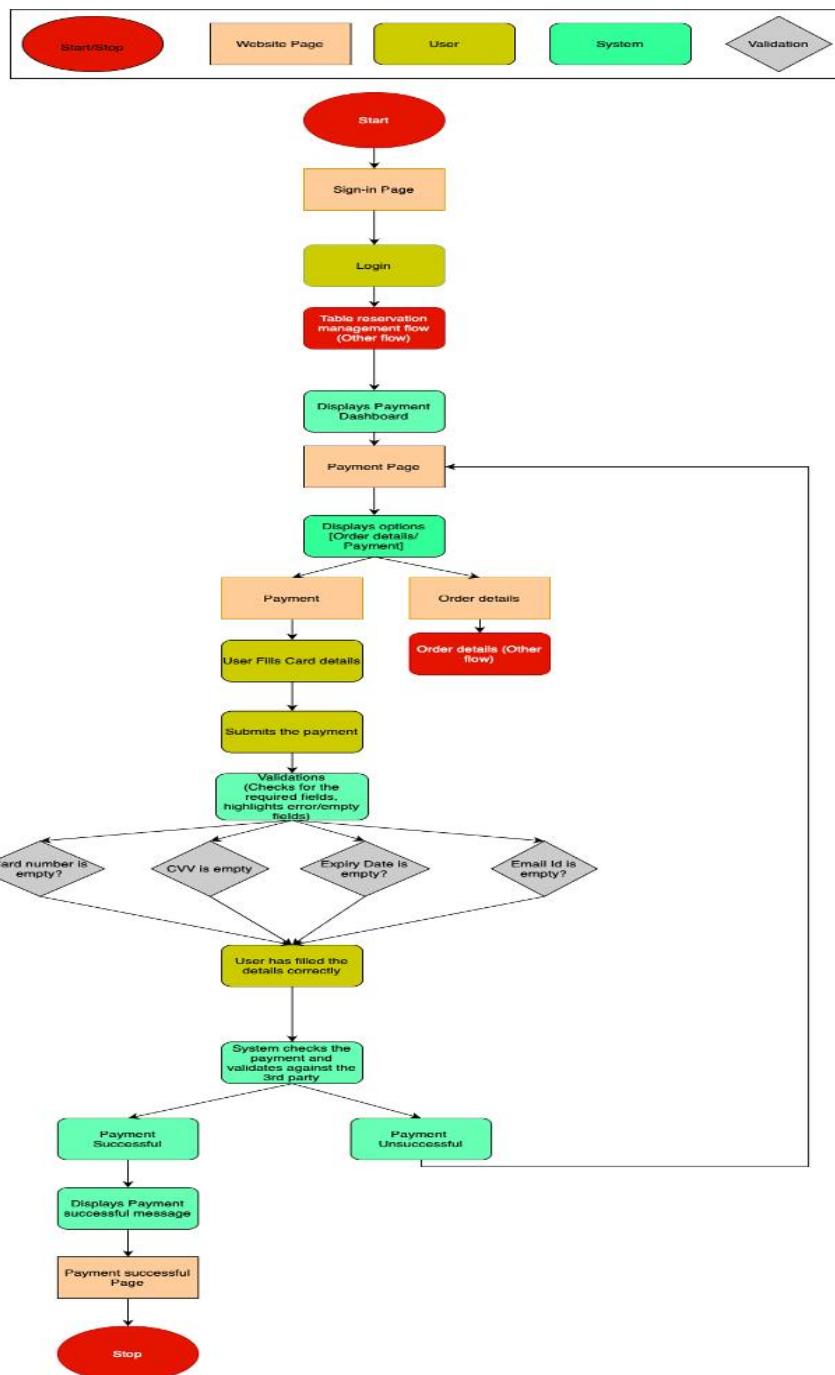


Figure 61: Task flow applicable to Payment feature - Integration of multiple payment gateways task [1].

User Scenario – View order details:

Jordan is finalizing a table booking on the GoDine app and decides to review their order by clicking the "Order Details" link on the payment page, which opens in a new tab.

1. The customer navigates to the payment page of the GoDine system.
2. The customer notices a link labelled "Order Details" on the payment page and clicks it.
3. GoDine redirects the customer to the booking details page, upon clicking the link.
4. The system displays the order details to the customer, including Website name, Hotel name, Total cost, and Tax.
5. The customer checks the order details to make sure they are correct.
6. Once satisfied, the customer can return to the payment page to proceed with the payment.

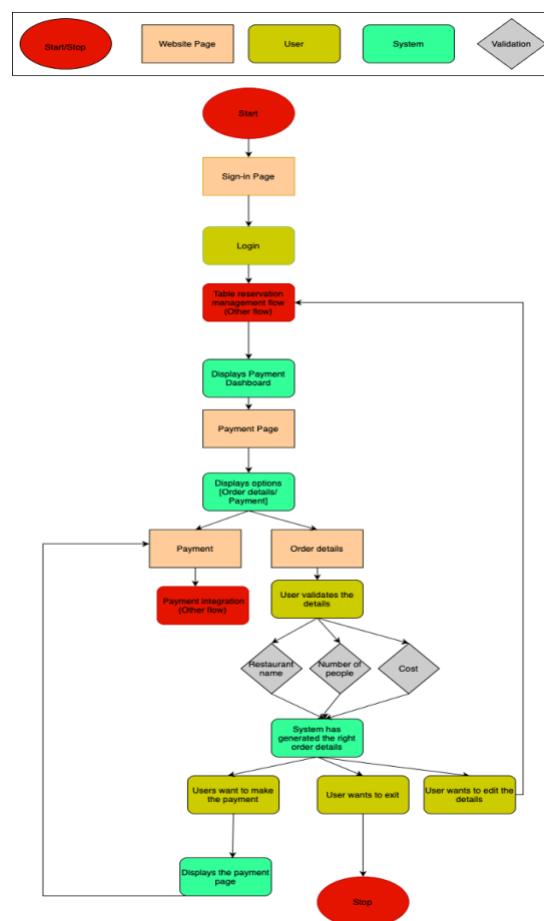


Figure 62: Task flow applicable to Payment feature - View Order Details [1].

User Scenario – Updating User Profile Data:

Emma is a 28-year-old famous food blogger and critic who loves to discover and share new restaurants with her followers. She recently moved to Halifax. She is an existing customer and feels it's time to update her profile to reflect her recent shift to a new city, which she detailed in a blog post she recently finished writing. Her fan base depends on her reviews for eating out. Emma wants to modify her profile information which includes updated location, contact number, email id, payment details and password on GoDine.

1. Emma navigates to her profile page on the website.
2. The system displays her current profile information.
3. Emma selects the option to edit her profile details.
4. The system presents editable fields for name, location, contact number, email ID and Age
5. Emma updates her location, contact number, email ID.
6. Emma clicks on Save.
7. The system saves the new information, updates Emma's profile.
8. Emma reviews her profile to ensure all updates are correct.

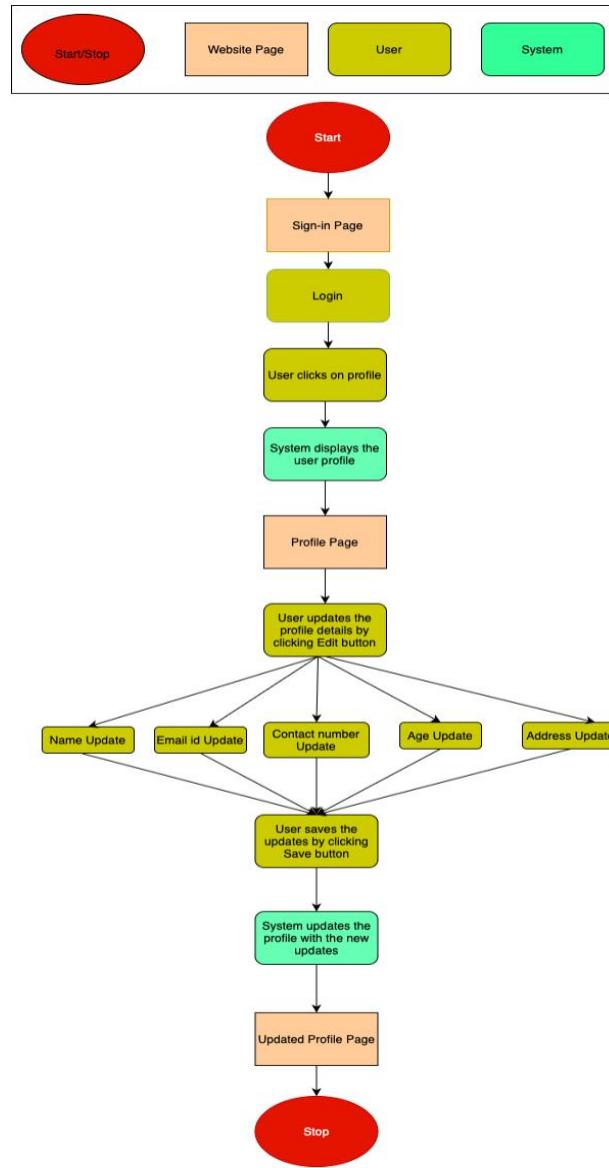


Figure 63: Task flow applicable to Updating User Profile Data task [1].

User Scenario – finding restaurant using search and filter:

Case 1: Lisa is to reserve a table for lunch with her friends. She exactly knows the name of the restaurant and finds by entering the name of the restaurant in the search bar and clicking search.

1. The user is created with the GoDine's home page.
2. The user clicks on the search bar.
3. The user enters the exact name of the restaurant, selects the cuisine and the location from respective drop down.
4. The user clicks on the search button.
 - 4.1. Systems prompts a message to enter missing fields.
 - 4.2. User enters the required fields.
 - 4.3. User clicks on the search button.
5. System displays a new search results page to the user.
 - 5.1. System displays no restaurants found if no restaurant matches the initial search.
 - 5.2. User updates the name or cuisine or location as per their choice.
 - 5.3. User clicks on search button.
 - 5.4. System shows the updated list of restaurants as per new search.
6. The user clicks on the specific restaurant of their choice.

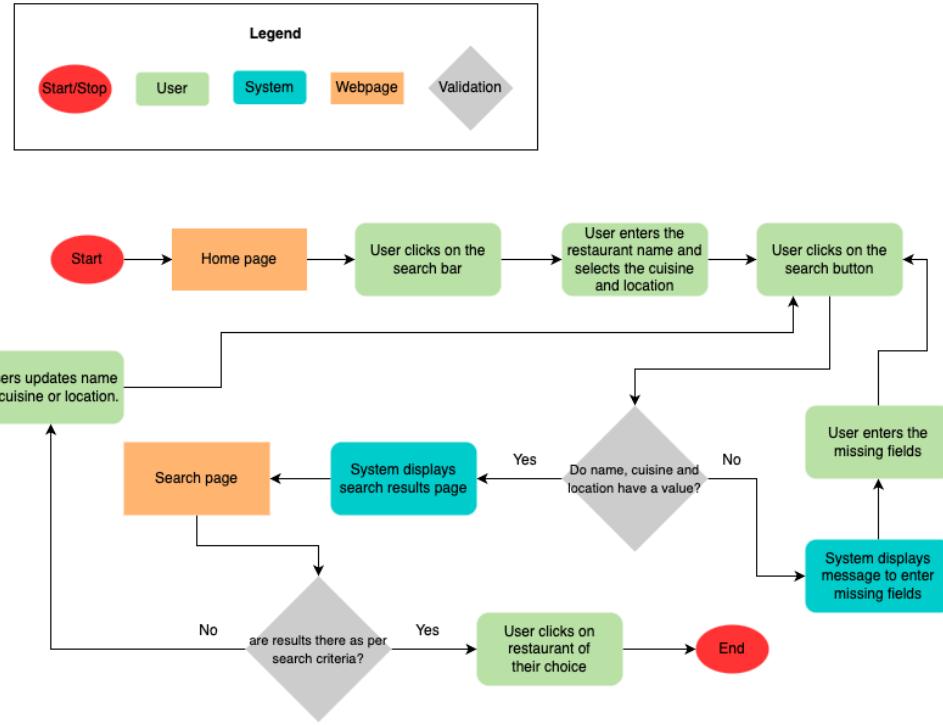


Figure 64: Task flow diagram of search and filter [1].

Case 2: John wants to look for a restaurant that serves lobster with good rating and budget friendly. He doesn't have any restaurant in mind but that it should fit his conditions. John initially searches for lobster with a cuisine and location close to his house. In the search page, he filters the restaurants using the discount and rating options.

1. The user is created with the GoDine's home page.
2. The user clicks on the search bar.
3. The user enters the name of the food, selects the cuisine and the location from respective drop down.
4. The user clicks on the search button.
 - 4.1. Systems prompts a message to enter missing fields.
 - 4.2. User enters the required fields.
 - 4.3. User clicks on the search button.
5. System displays a new search results page to the user.
 - 5.1. System displays no restaurants found if no restaurant matches the initial search.

- 5.2. User re-enters different name, cuisine, and location values.
- 5.3. System shows the updated list of restaurants as per new search.
6. The user sets filters of choice.
 7. System displays updated list of restaurants based on filters.
 8. The user clicks on the specific restaurant of their choice.

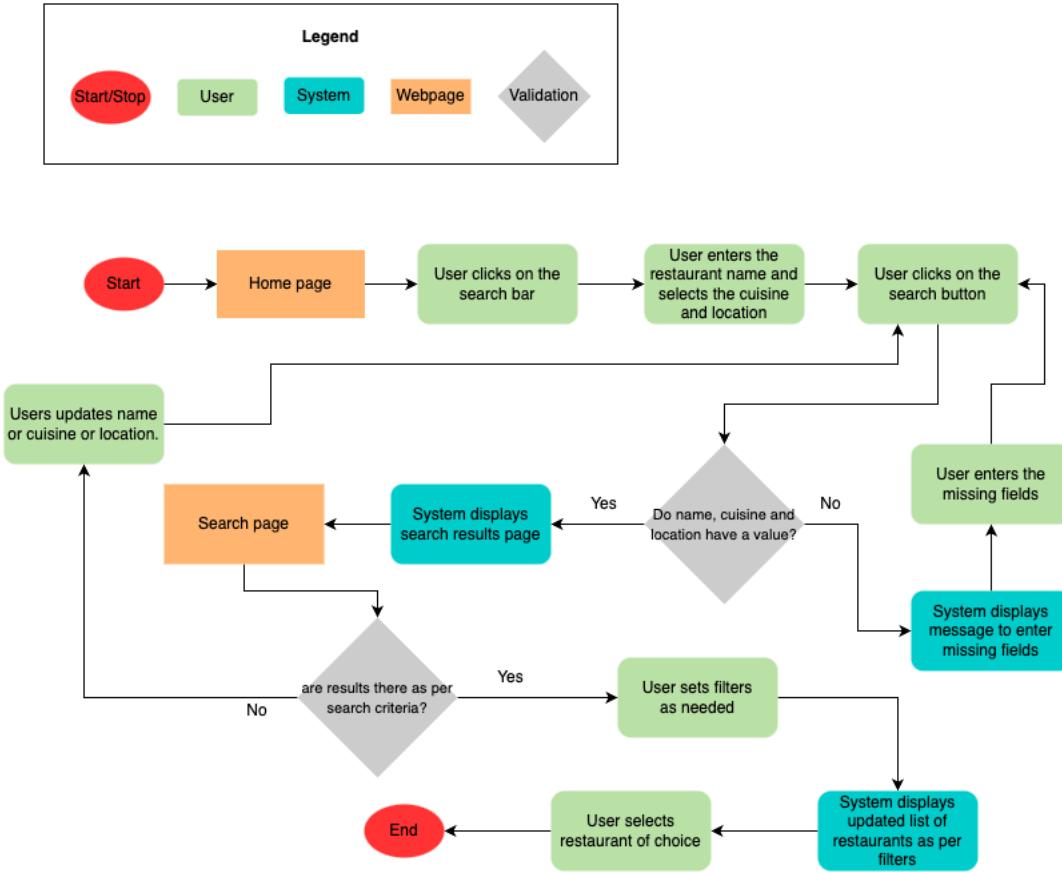


Figure 65: Task flow diagram of search and filter [1].

User scenario – Finding a discount coupon for reservation:

Maddy is a new user looking at restaurants that are within her budget. She goes to the discounts and promotions page and checks out only the discounts. She clicks on a discount and reads the eligibility and conditions to apply the discounts.

1. The user is presented with the home page.
2. The user clicks on the “Discounts & Promotions” button in the navbar.
3. The system displays a new page with the current discounts and promotions.

4. The user scrolls through the page exploring the different discounts.
 - 4.1. The user applies filters to show only discounts.
 - 4.1.1. The user uses the search bar to search a specific discount code or name.
 - 4.2. The system updates the results on the page as per search.
 - 4.2.1. The system displays no results found if nothing matches the criteria.
 - 4.2.2. The user updates their search criteria.
5. The user clicks on the discount of interest.
6. The system presents with a discount card with all the information related to that discount.

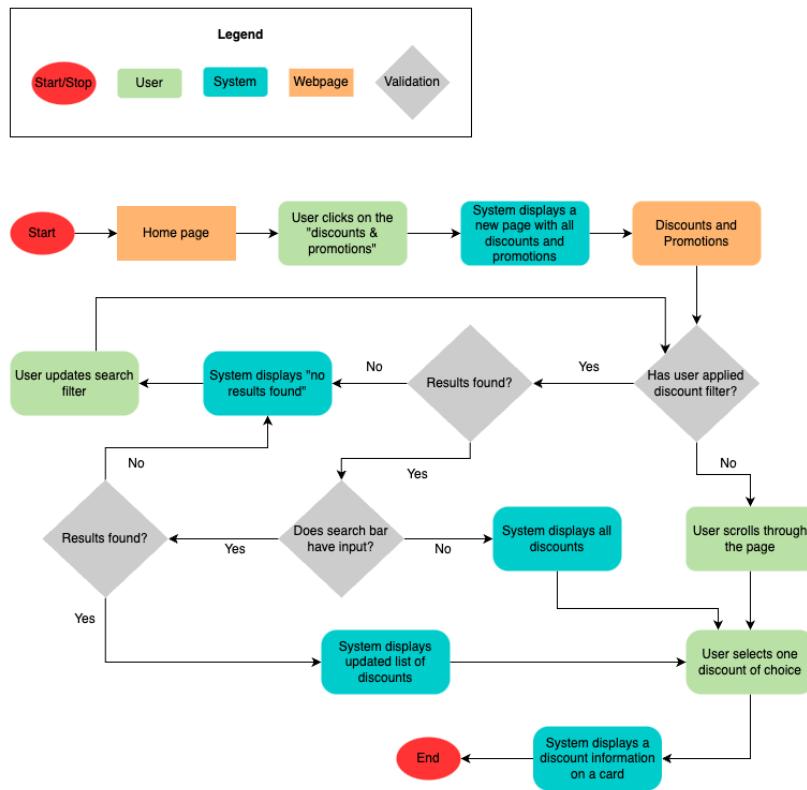


Figure 66: Task flow for finding a discount [1].

User scenario – Finding a restaurant's promotion.

John is an existing user and wants to find restaurant promotions on the GoDine website.

He is looking for a new restaurant that is offering a promotion that he finds suitable.

1. The user is presented with the home page.
2. The user clicks on the “Discounts & Promotions” button in the navbar.
3. The system displays a discounts and promotions page.
4. The user explores various promotions by scrolling through the page.
 - 4.1. The user applies filters to show only promotions.
 - 4.1.1. The user uses the search bar to search a specific promotion.
 - 4.2. The system updates the results on the page as per search.
 - 4.2.1. The system displays no results found if nothing matches the criteria.
 - 4.2.2. The user updates their search criteria.
5. The user clicks on the promotion of interest.
6. The system presents with a promotion card with all the information to that restaurant's promotion.

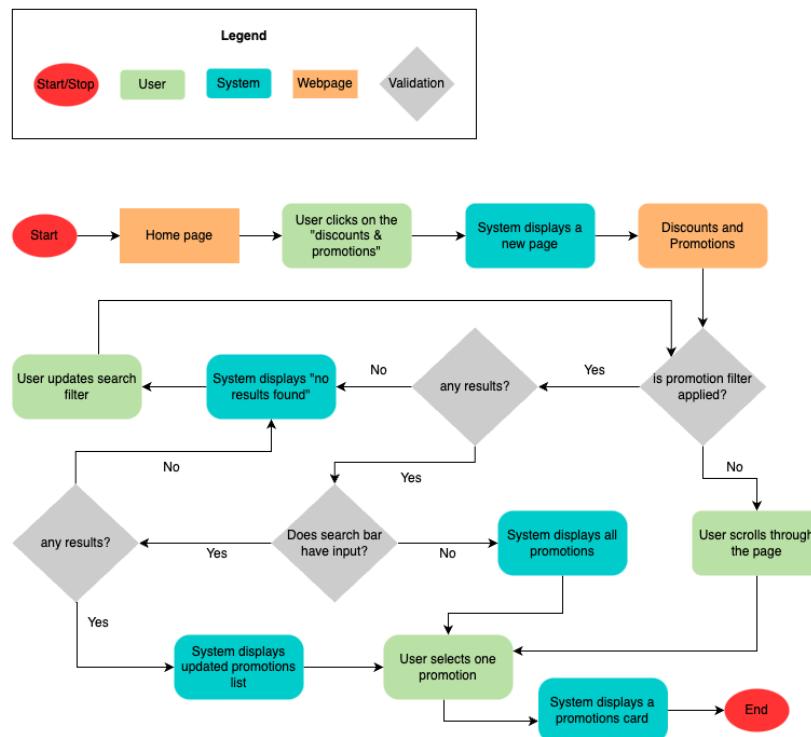


Figure 67: Task flow of finding a restaurant's promotion [1].

3. Asset Inventory

Client-side languages:

The list of client-side technologies used in developing the GoDine website are:

- **HTML:** Used for structure of react components in the GoDine website.
- **CSS:** Used to make alignment and for modifying the styles of the React pages and components.
- **React JS:** Used for making client-side validation and for making API call to the server.
- **Bootstrap:** Used for making the web pages responsive across all devices and for providing premade, uniform styles for commonly used elements, like buttons and cards.

Server-side languages:

The list of Server-side technologies used in developing the GoDine website are:

- **Node.js:** Used for server-side validations and to make calls to the database to fetch the data which is requested by the client side.
- **NoSQL (MongoDB):** Used to write queries in the database to fetch the required data.

API:

The list of APIs used in developing the application are as follows:

- **REST API:** Used to make API calls from client side to server side.

Images:

The list of image formats we used in developing our application are:

- jpeg
- jpg
- png

4. Group Roles

Name	Primary role	Secondary role
Krishna Vaibhav Yadlapalli	Full Stack Developer	Designer and Developer
Tejas Pabbu	Full Stack Developer	Scrum Master and Designer
Venkata Sreenivas Prasad Kasibhatla	Full Stack Developer	Copywriter and Documents Manager
Jahnavi Gajjala	Full Stack Developer	Copywriter and Documents Manager
Priyatam Reddy Somagattu	Full Stack Developer	Designer and Developer
Praveen Kumar Reddy Burla	Full Stack Developer	Copywriter and designer

5. REFERENCES

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