



User Experience Engineering

Sketches, Wireframes and prototypes

Group ID: 2021S1_JUNE_WD_11

Group Member Details

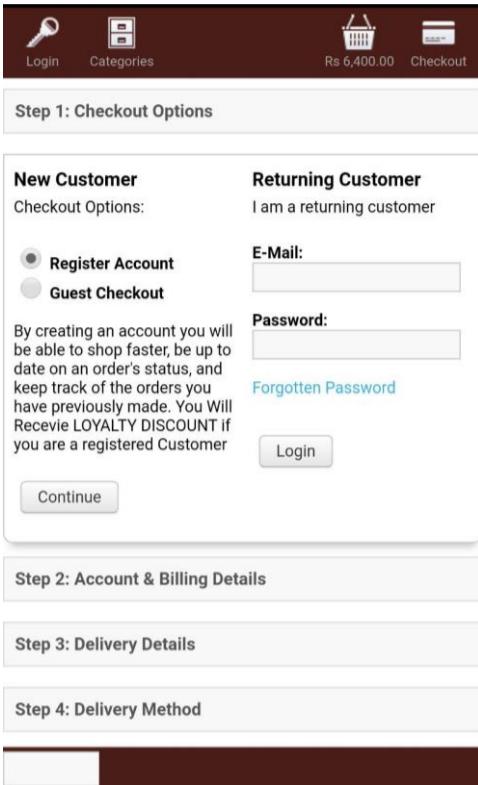
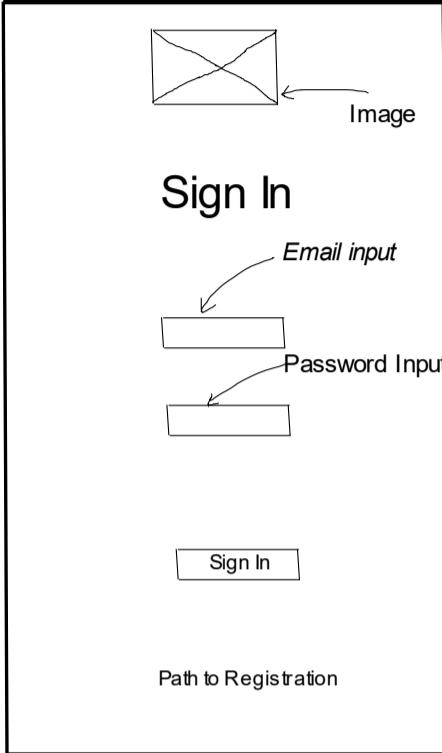
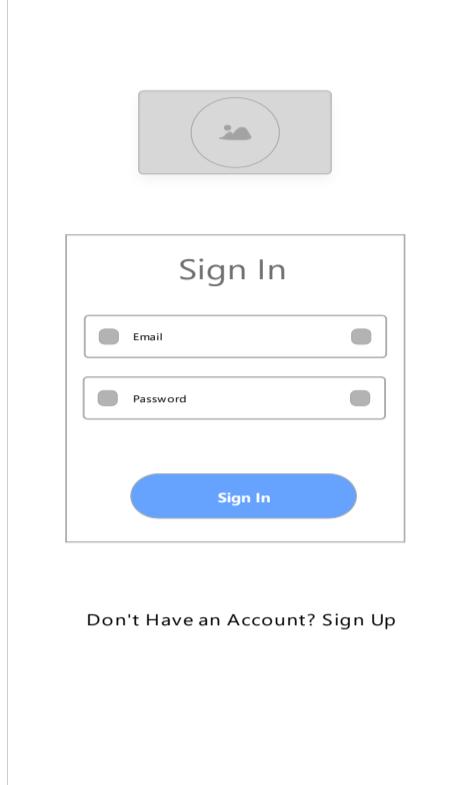
Registration Number	Member
IT19974774	N.A.C.H Dasanayake
IT19047720	B.N.V Mendis
IT19953984	Y.N Sajani
IT19953052	K.A.S.S Rupasinghe

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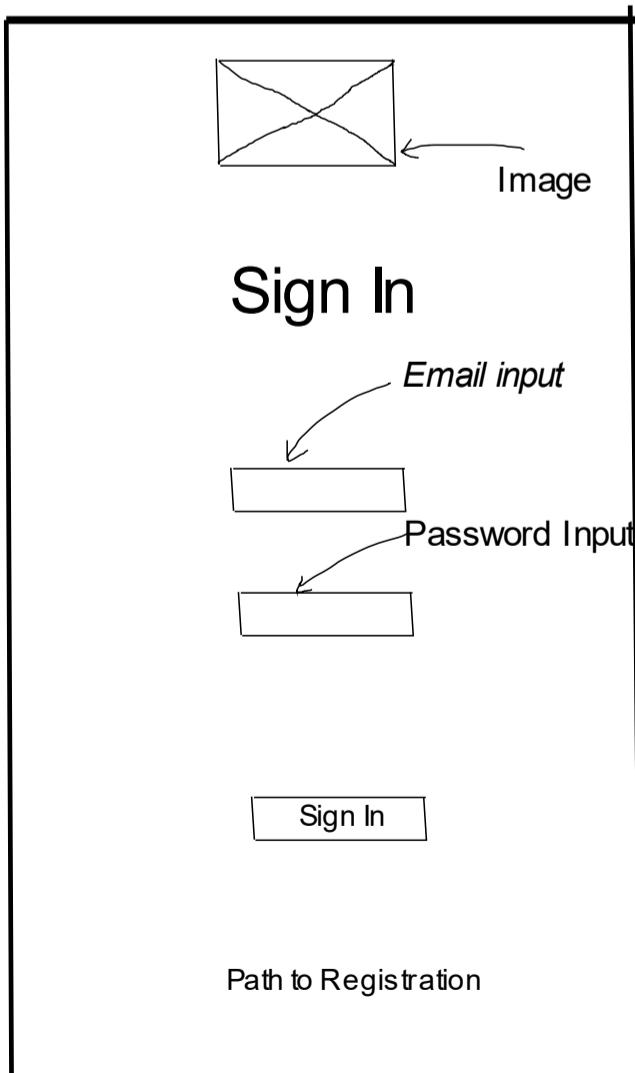
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Interface 1 – Sign In

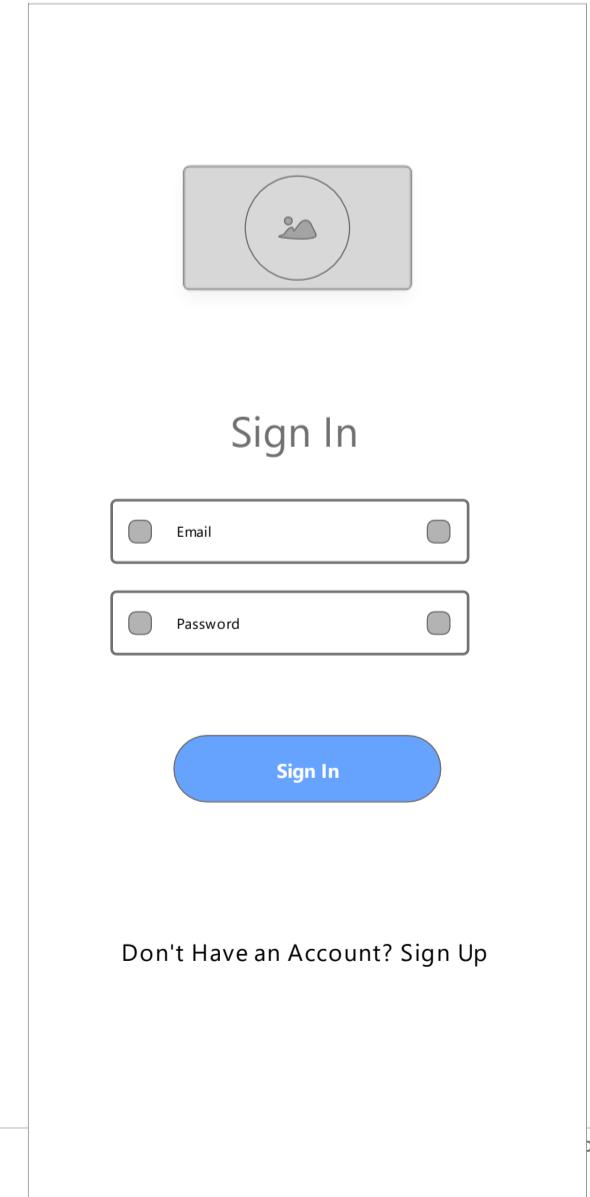
Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
		
Failure points of the UI <ul style="list-style-type: none"> • Login screen is complicated and hard to use because of too much information 	Suggested solutions <p>Create a simple UI with minimal information with easy navigation</p>	

Sketches

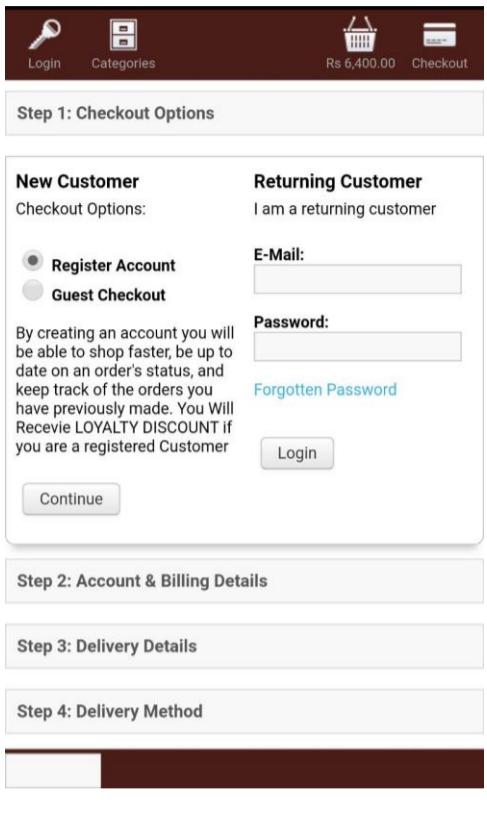
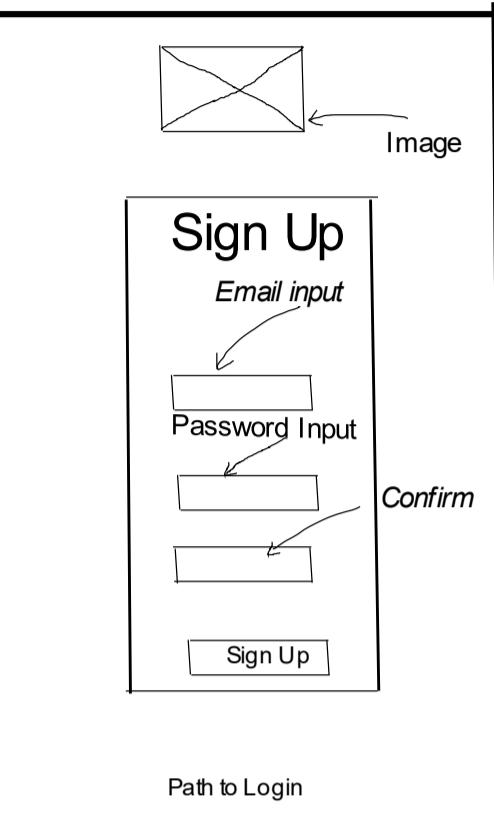
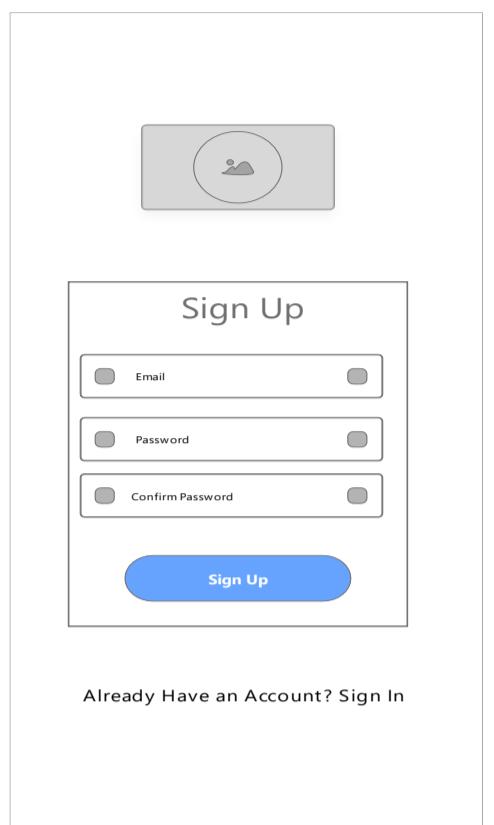


Wireframes

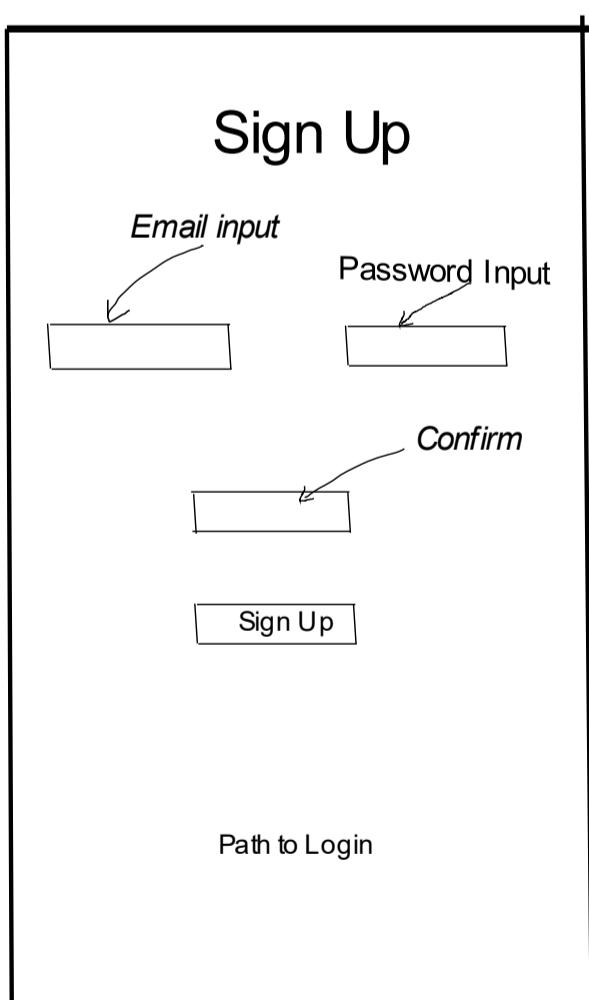
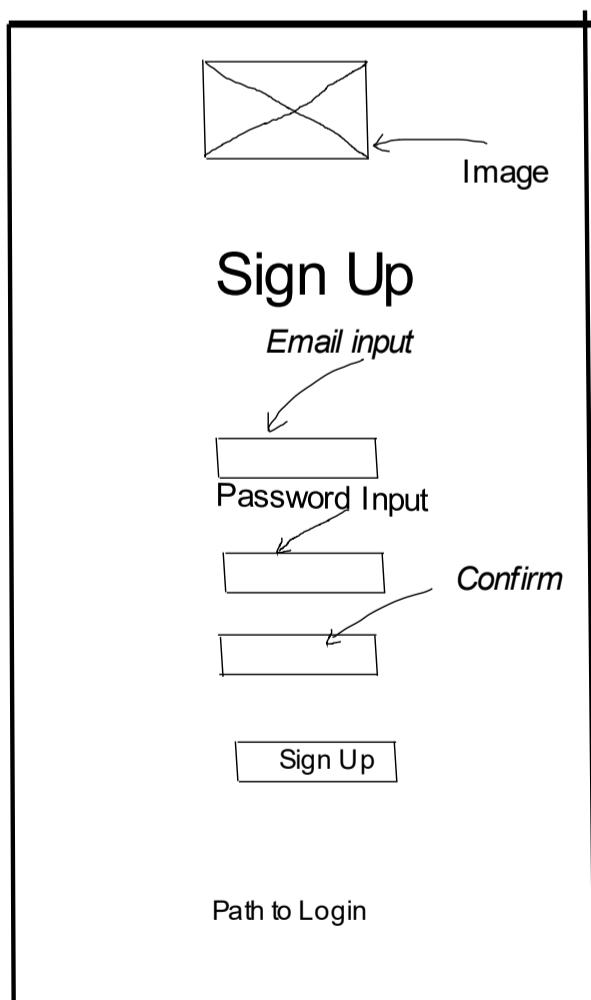


Interface 2 – Registration

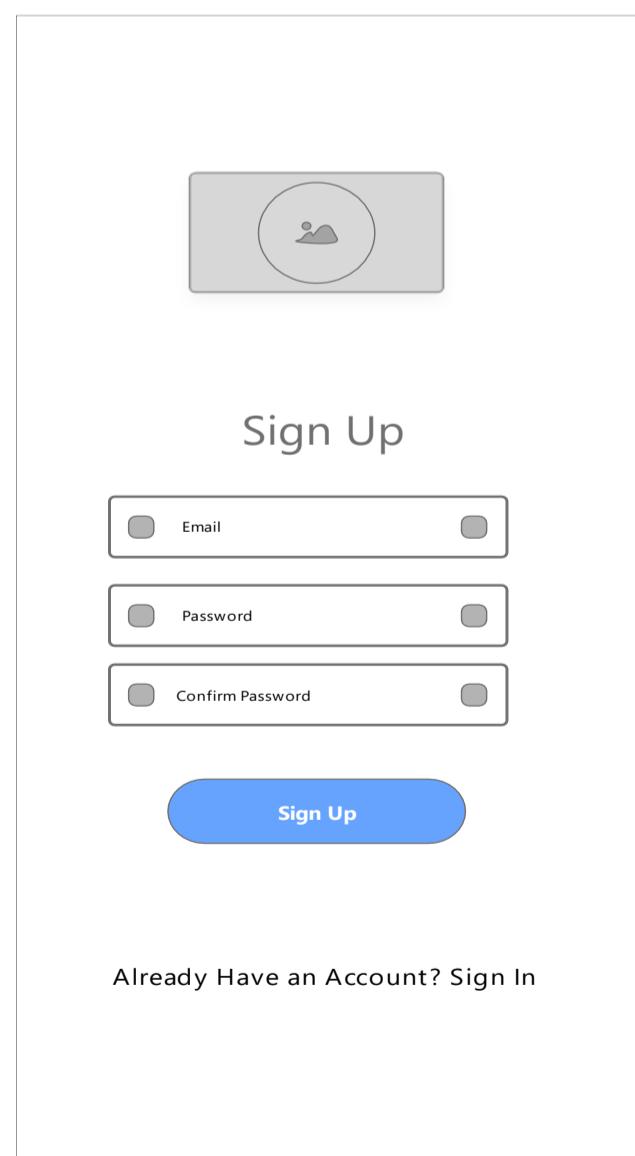
Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
 <p>New Customer Checkout Options: <input checked="" type="radio"/> Register Account <input type="radio"/> Guest Checkout By creating an account you will be able to shop faster, be up to date on an order's status, and keep track of the orders you have previously made. You Will Receive LOYALTY DISCOUNT if you are a registered Customer Continue</p> <p>Returning Customer I am a returning customer E-Mail: Password: Forgotten Password Login</p> <p>Step 2: Account & Billing Details</p> <p>Step 3: Delivery Details</p> <p>Step 4: Delivery Method</p>	 <p>Image</p> <p>Sign Up</p> <p>Email input</p> <p>Password Input</p> <p>Confirm</p> <p>Sign Up</p> <p>Path to Login</p>	 <p>Sign Up</p> <p>Email</p> <p>Password</p> <p>Confirm Password</p> <p>Sign Up</p> <p>Already Have an Account? Sign In</p>
<p>Failure points of the UI</p> <ul style="list-style-type: none"> Registration form has too many steps to go through. 	<p>Suggested solutions</p> <p>Create a simple UI with minimal information with easy navigation</p>	

Sketches

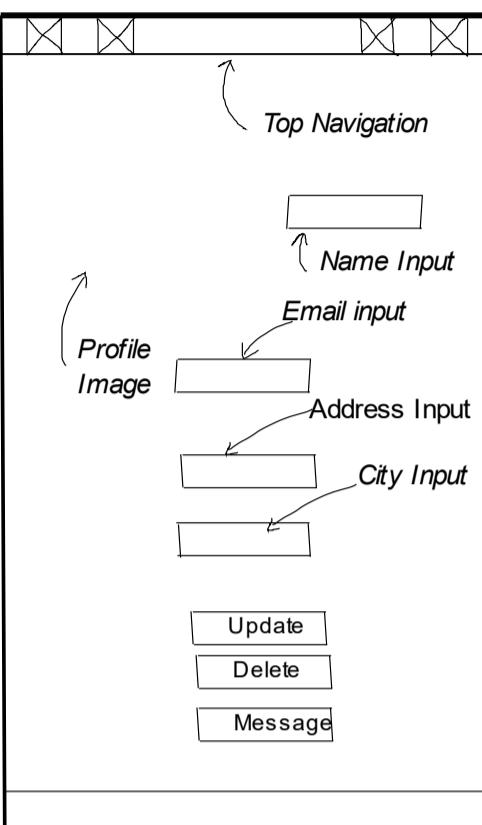
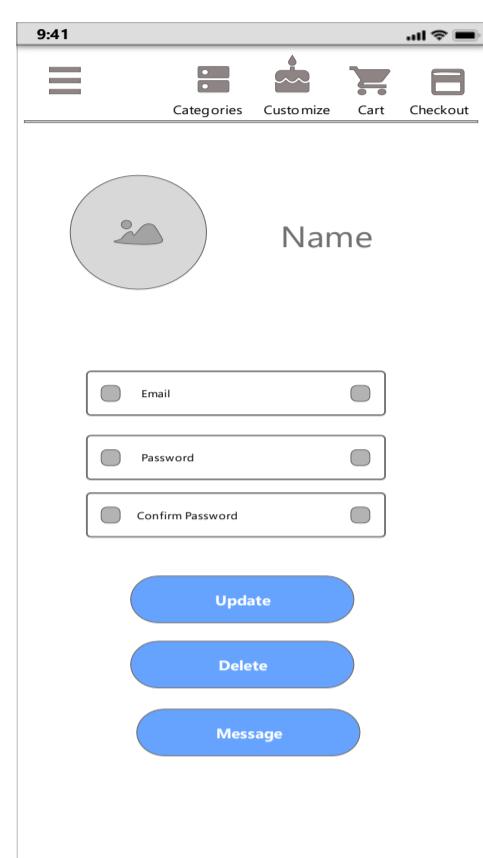


Wireframes

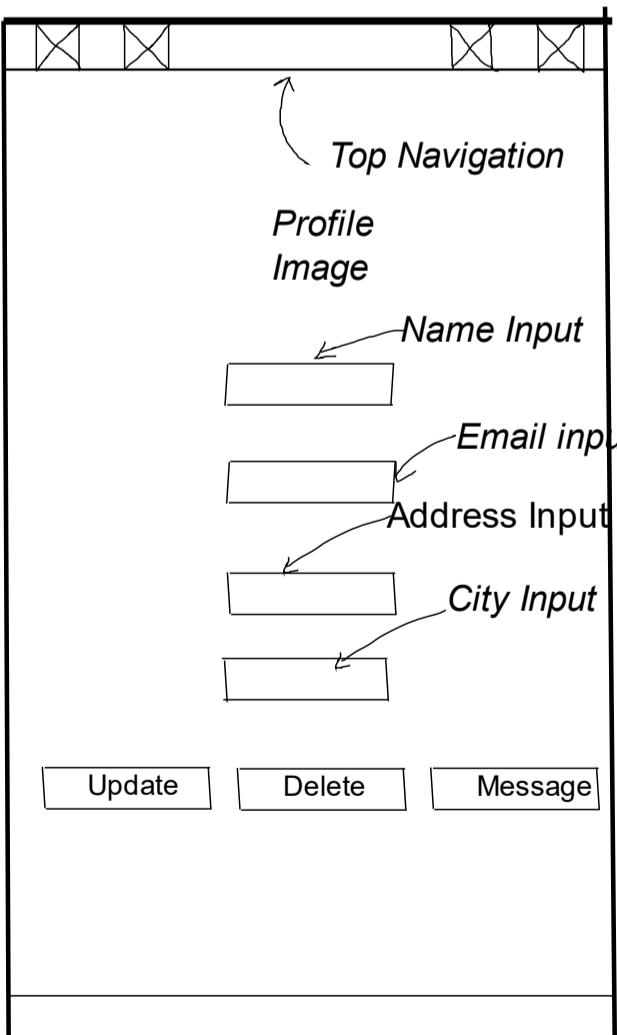
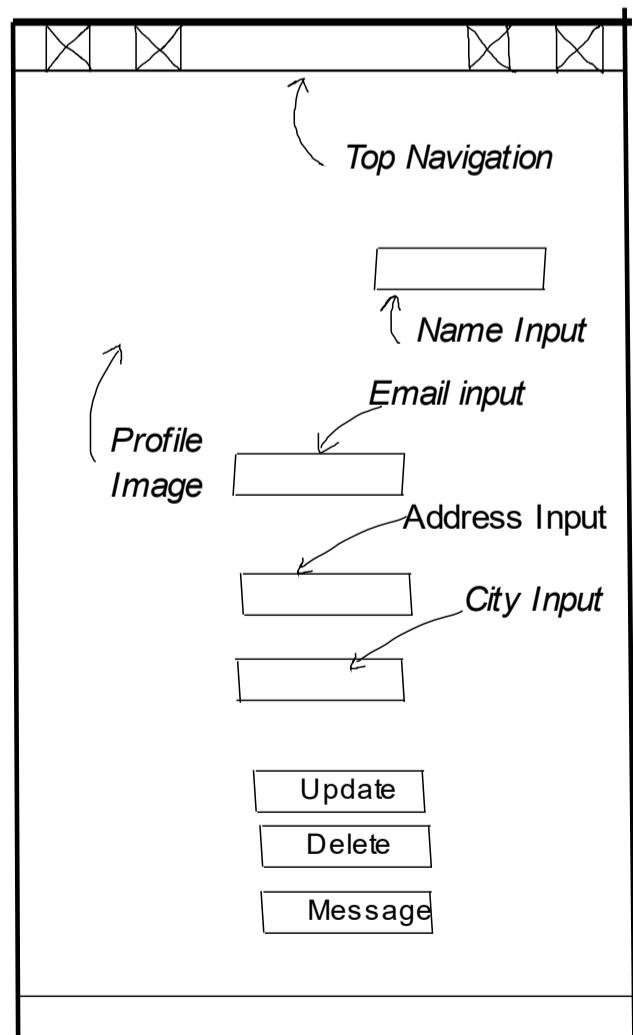


Interface 3 – Profile

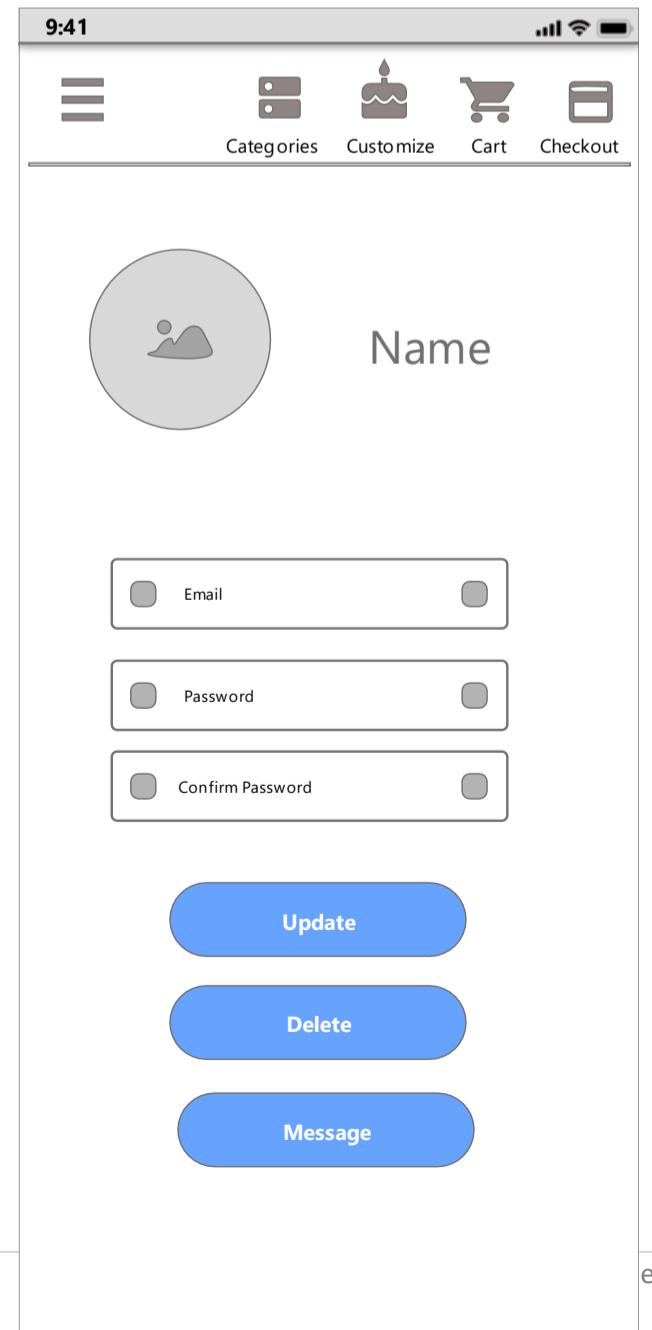
Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
	 <p>Top Navigation</p> <p>Profile Image</p> <p>Name Input</p> <p>Email input</p> <p>Address Input</p> <p>City Input</p> <p>Update</p> <p>Delete</p> <p>Message</p>	 <p>9:41</p> <p>Categories Customize Cart Checkout</p> <p>Name</p> <p>Email</p> <p>Password</p> <p>Confirm Password</p> <p>Update</p> <p>Delete</p> <p>Message</p>
Failure points of the UI	<ul style="list-style-type: none"> No profile page <p>Suggested solutions</p> <p>Create a page for profile details</p>	

Sketches

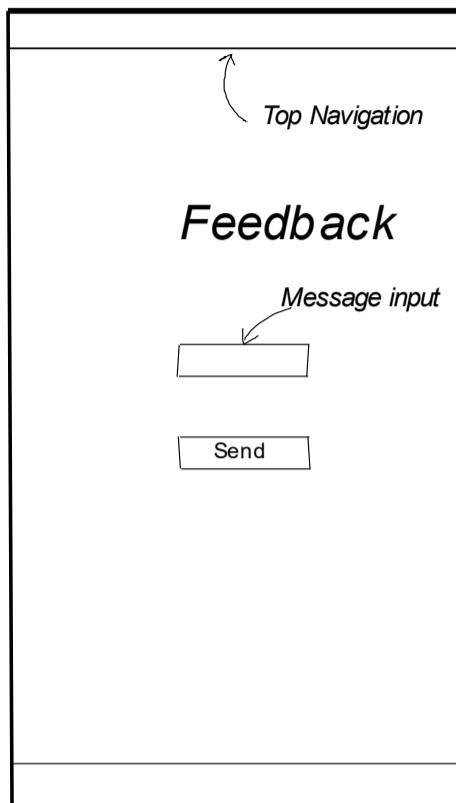
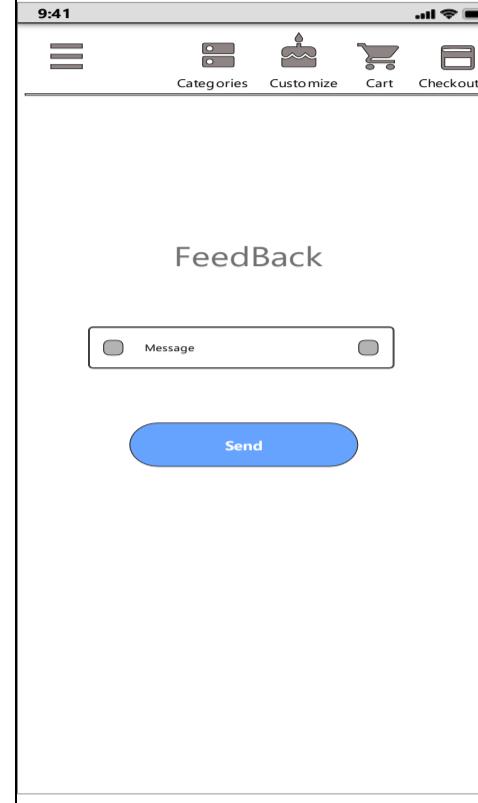


Wireframes

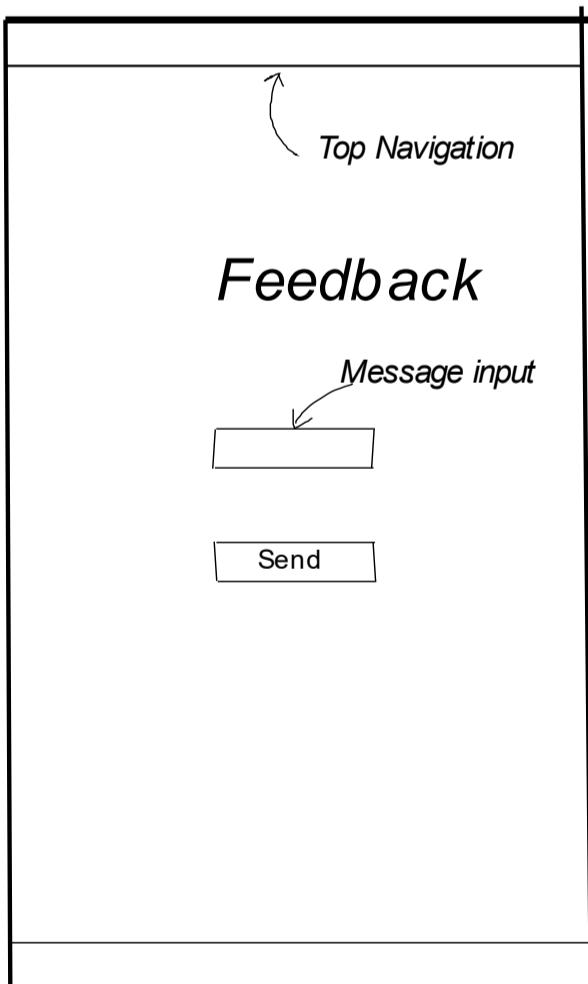


Interface 4 – Feedback

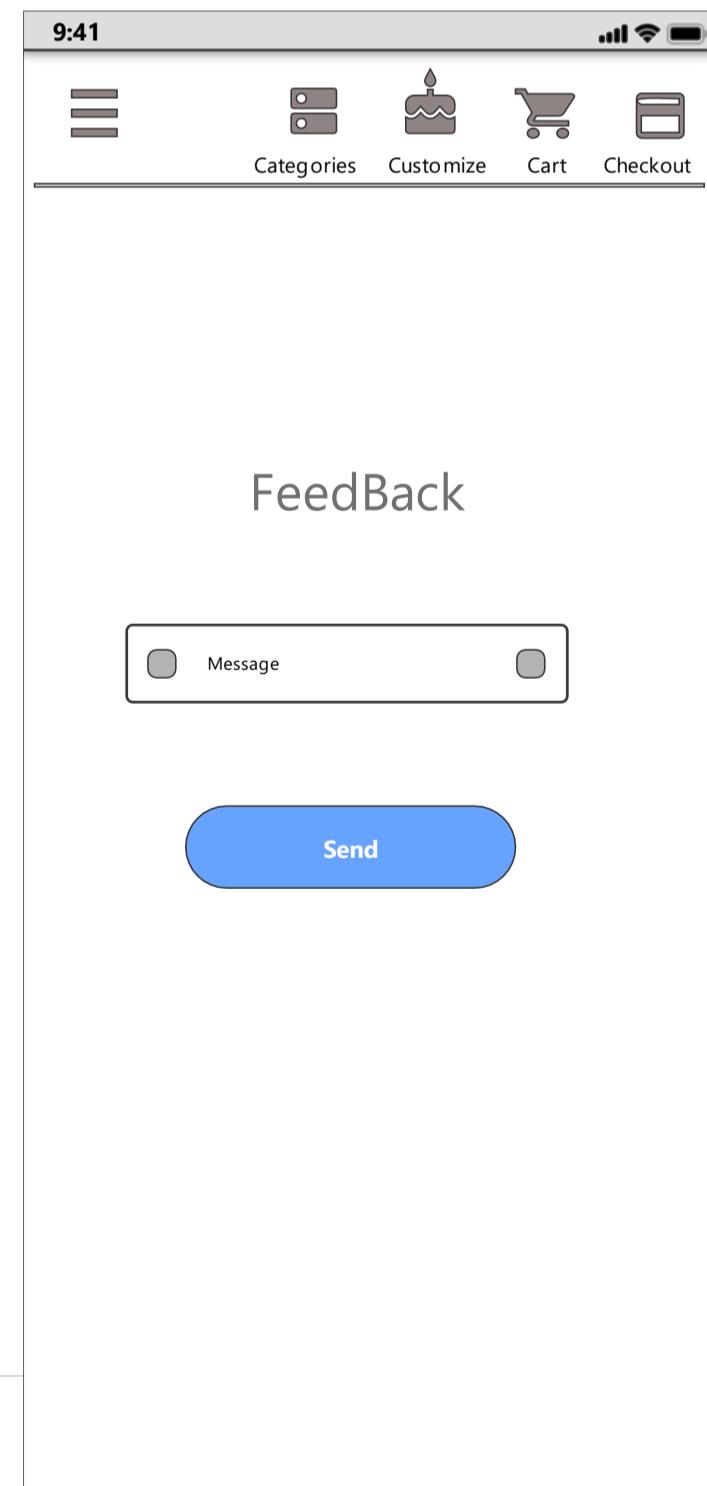
Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
		
<p>Failure points of the UI</p> <ul style="list-style-type: none"> Footer has covered half of an interface as a barrier to viewing other information clearly and footer contain message box which is not a suitable place to locate. 	<p>Suggested solutions</p> <p>Remove footer with proper navigation and create new page for message box</p>	

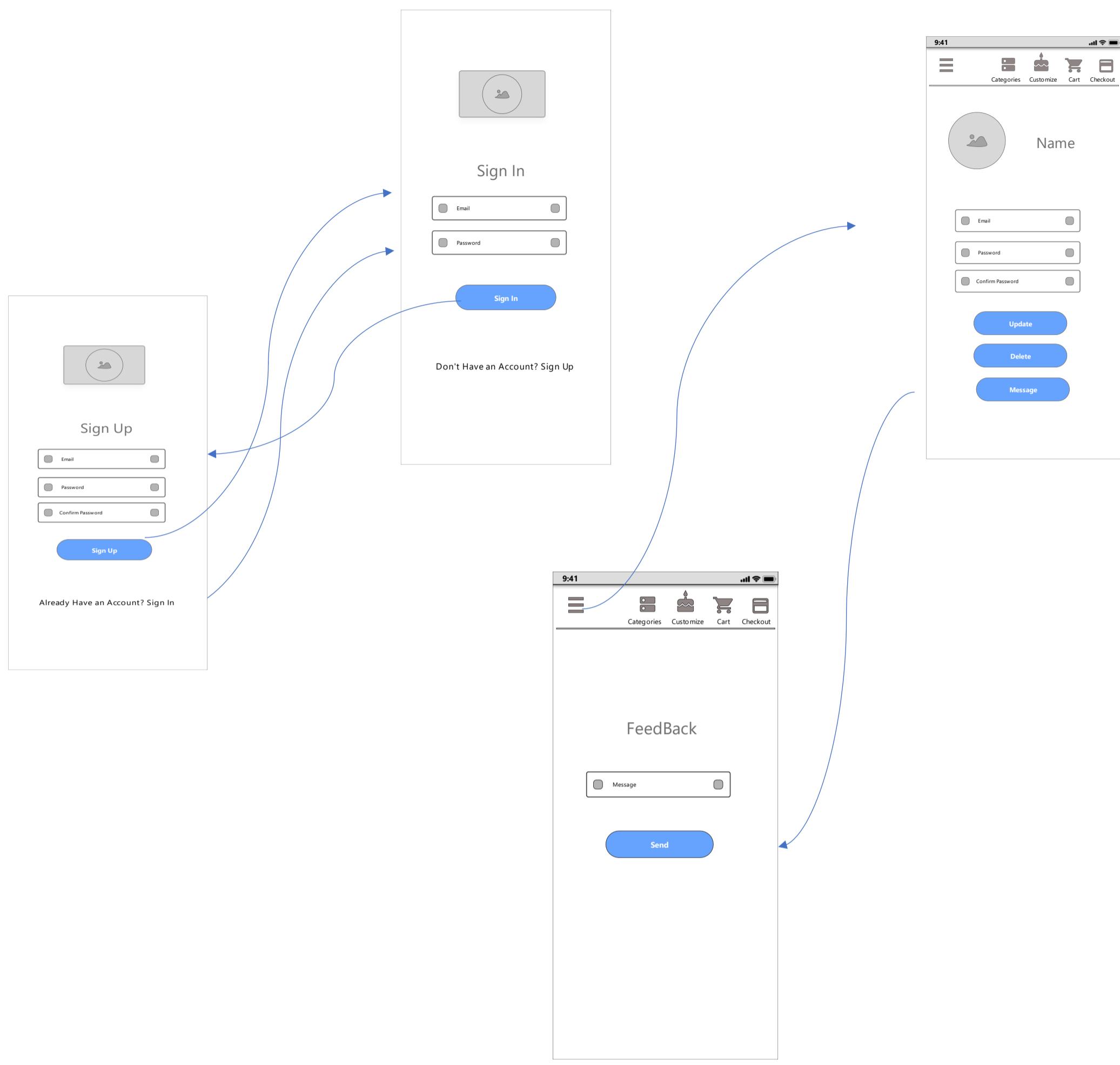
Sketches



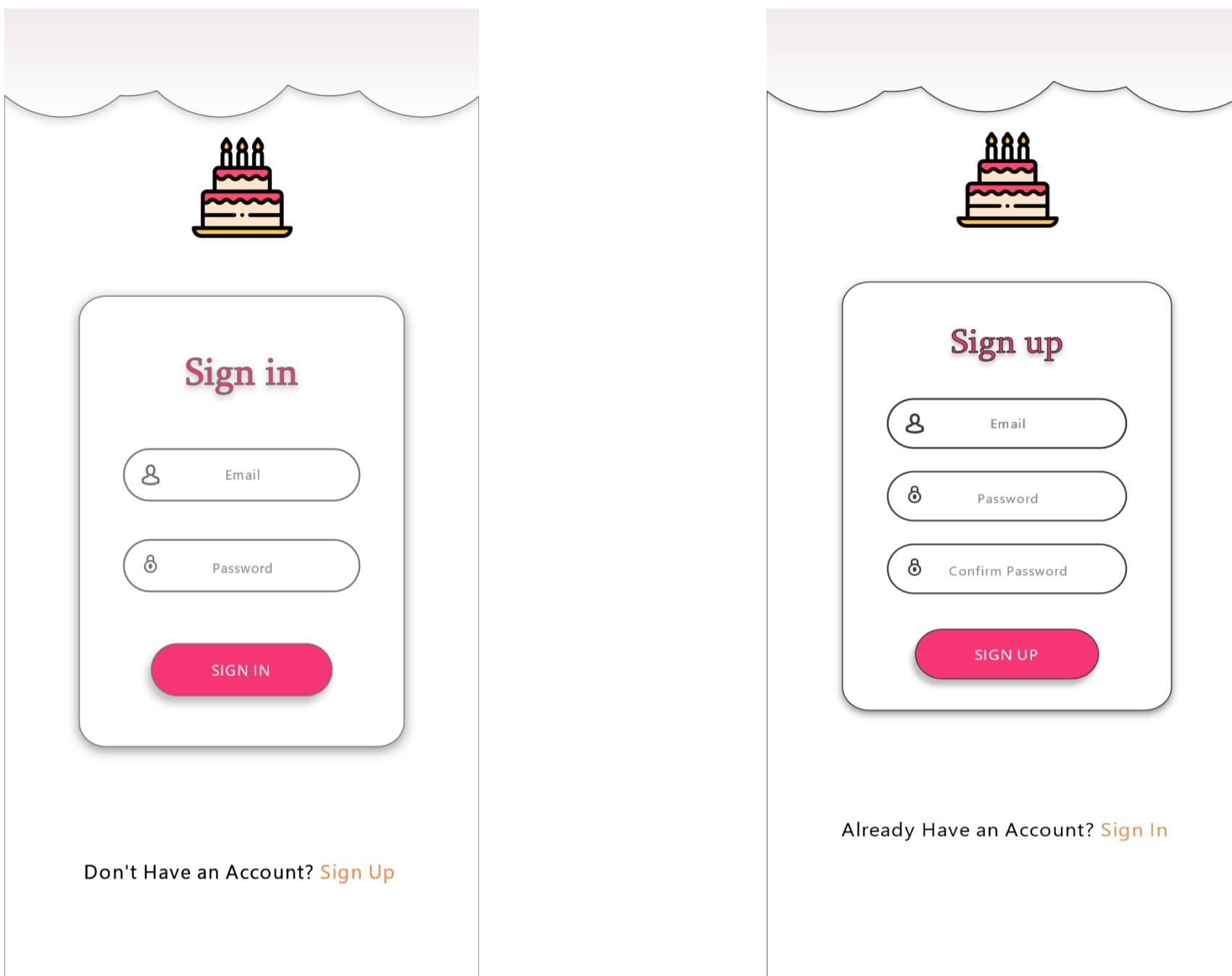
Wireframes



Connection between UIs



Prototype version 1



The image displays two mobile screens side-by-side, each showing a navigation bar with icons for Categories, Customize, Cart, and Checkout.

Left Screen (Feedback):

- Header: feedback
- Form field: Message
- Buttons:
 - Send (pink button)

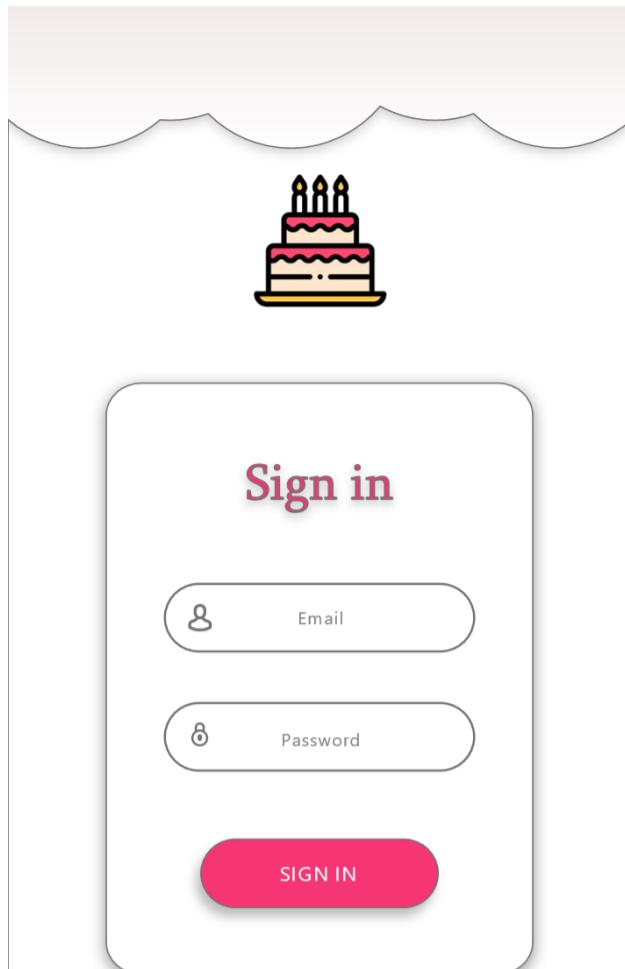
Right Screen (Profile):

- Header: Registration
- User Profile: John Doe (with a placeholder profile picture)
- Form fields:
 - Email: Jd@gmail.com
 - Address
 - City
- Buttons:
 - Update Profile (green button)
 - Delete Account (pink button)
 - Leave a message (blue button)

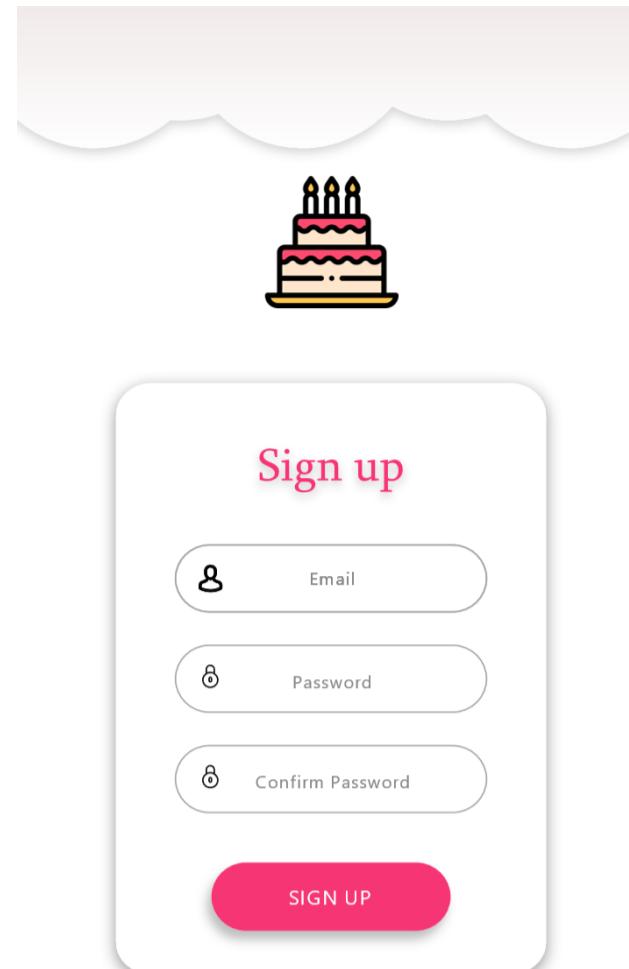
Feedback

Profile

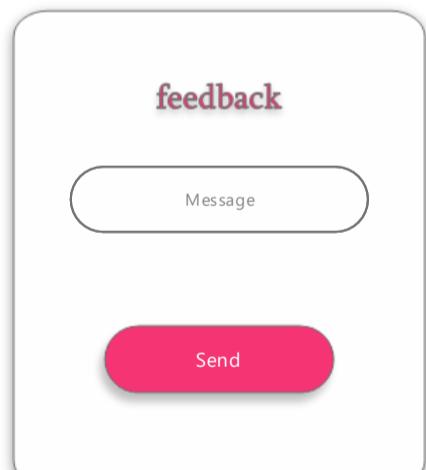
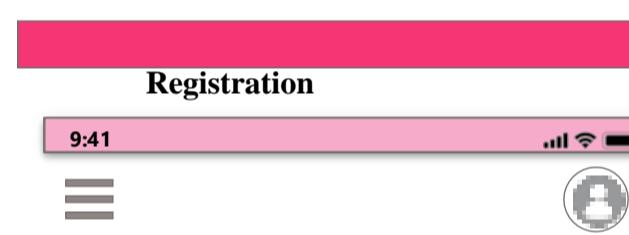
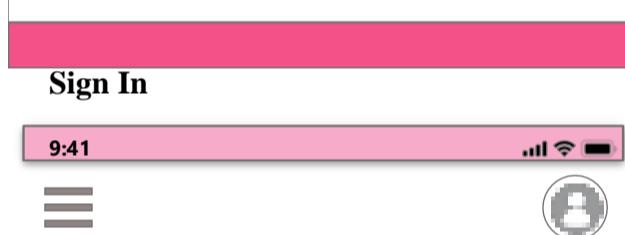
Prototype version 2



Don't Have an Account? [Sign Up](#)



Already Have an Account? [Sign In](#)



9:41

Signal Strength

John Doe

Profile Picture Placeholder

John Doe

Feedback Screen

Message

Send

Update Profile

Delete Account

Leave a message

Home Categories Customize Cart Checkout

Feedback

Profile

9 | Page

9:41

Signal Strength

John Doe

Profile Picture Placeholder

John Doe

Feedback Screen

Message

Send

Update Profile

Delete Account

Leave a message

Home Categories Customize Cart Checkout

Feedback

Profile

9 | Page

9:41

Signal Strength

John Doe

Profile Picture Placeholder

John Doe

Feedback Screen

Message

Send

Update Profile

Delete Account

Leave a message

Home Categories Customize Cart Checkout

Feedback

Profile

9 | Page

9:41

Signal Strength

John Doe

Profile Picture Placeholder

John Doe

Feedback Screen

Message

Send

Update Profile

Delete Account

Leave a message

Home Categories Customize Cart Checkout

Feedback

Profile

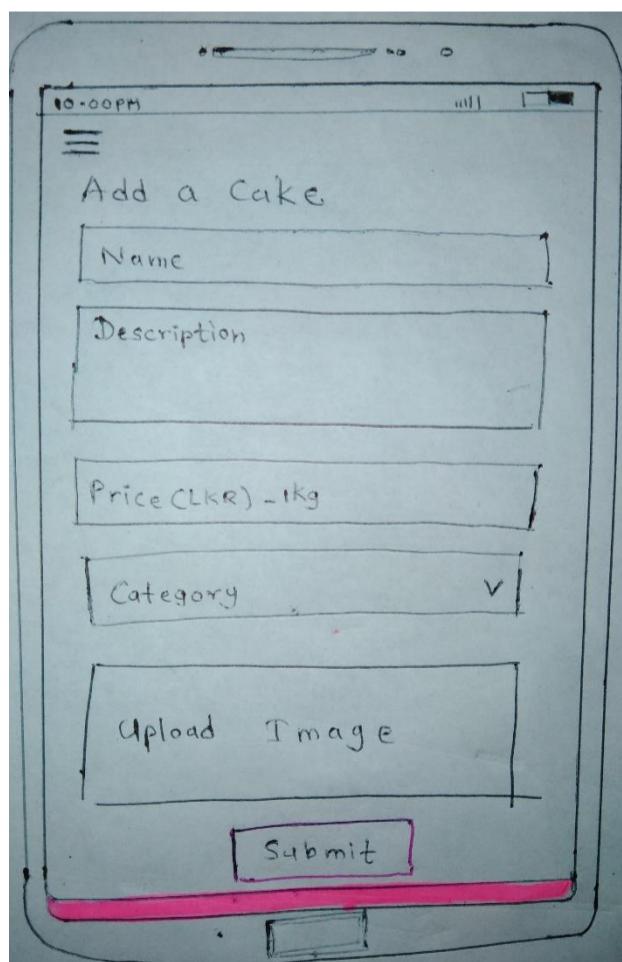
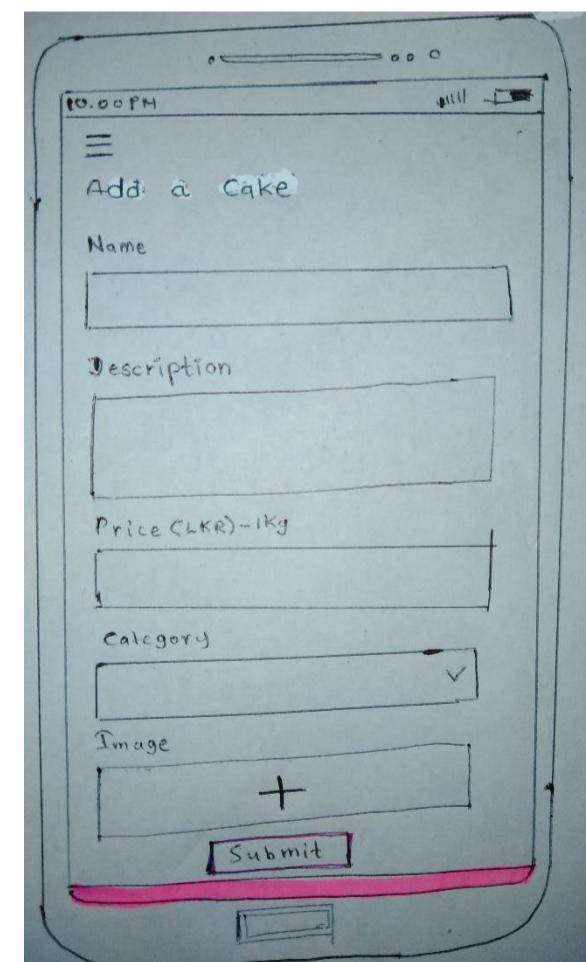
9 | Page

Interface 1 – Add a Cake - Admin

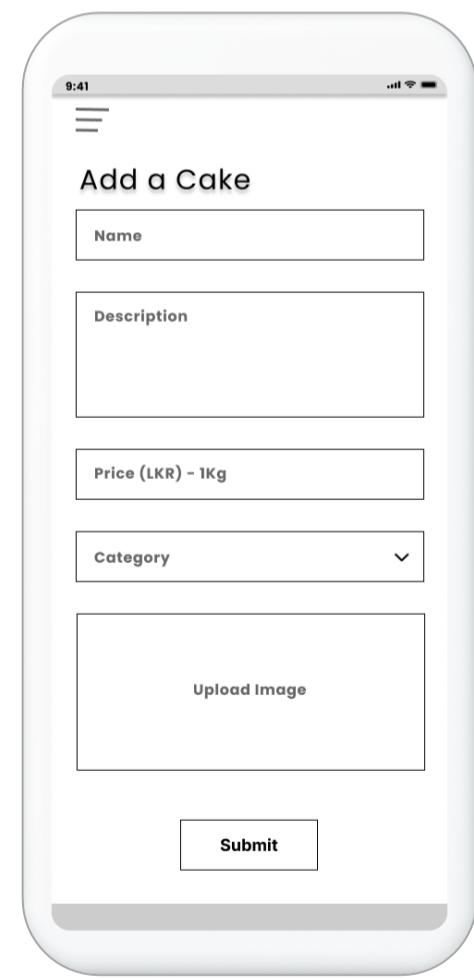
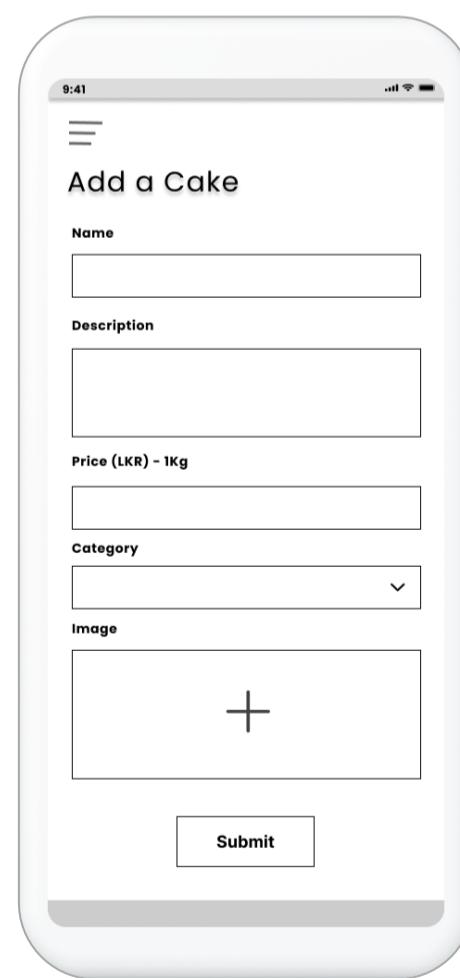
Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe

Sketches

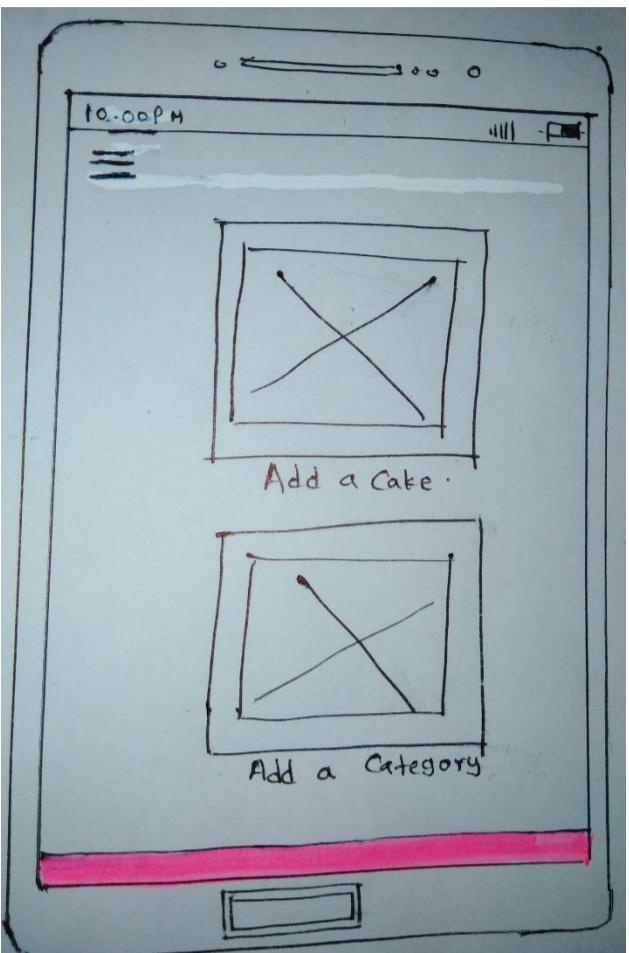
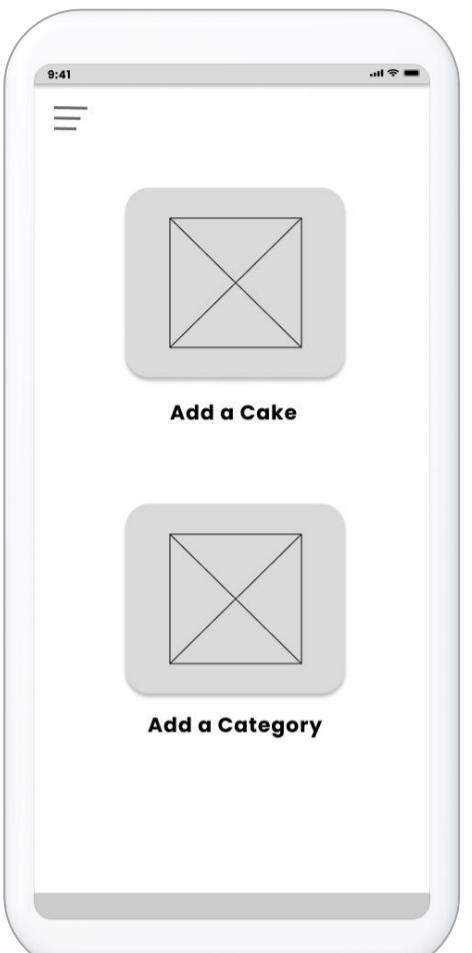


Wireframes



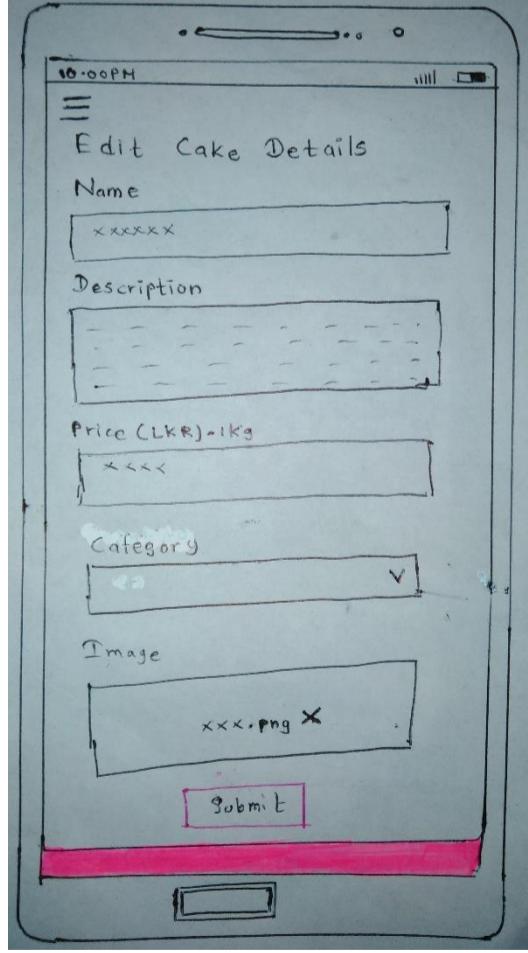
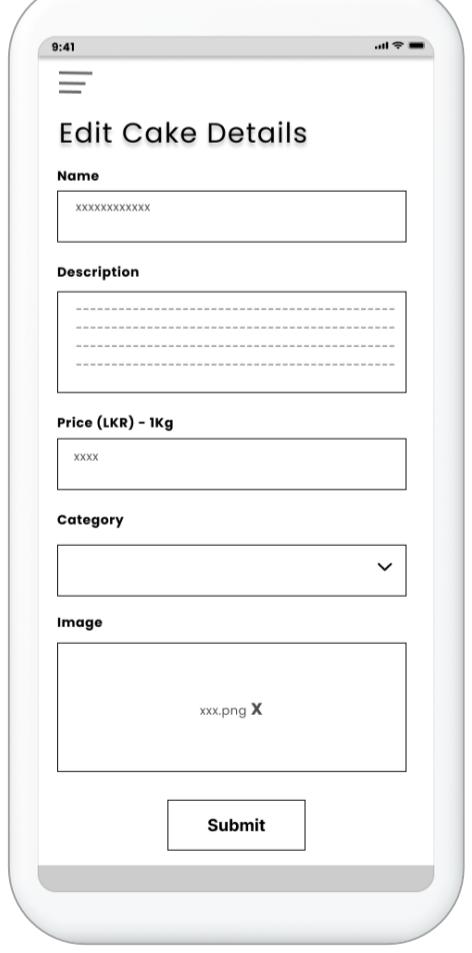
Interface 2 – Home - Admin

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
		

Interface 3 – Edit Cake - Admin

Design Suggestions

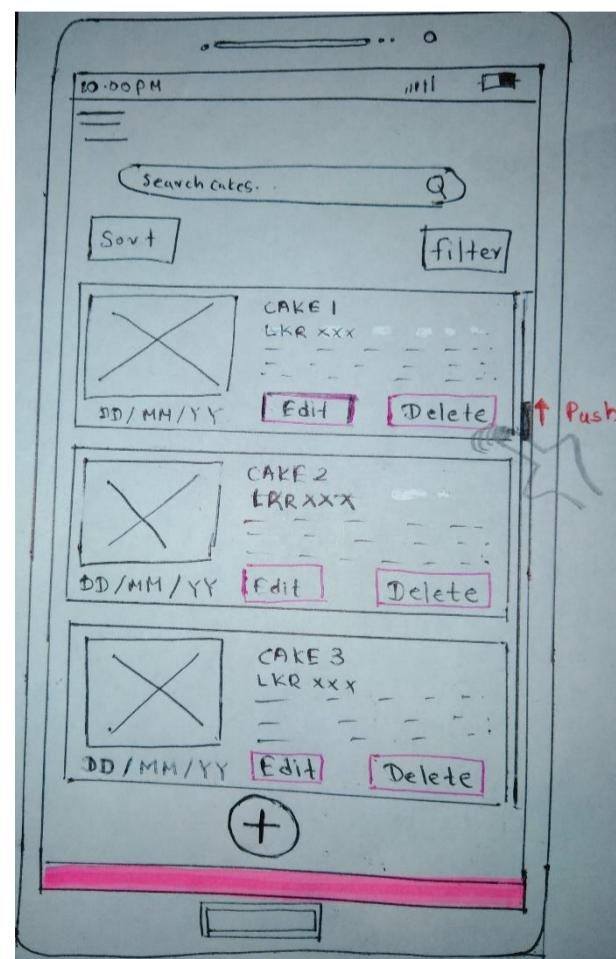
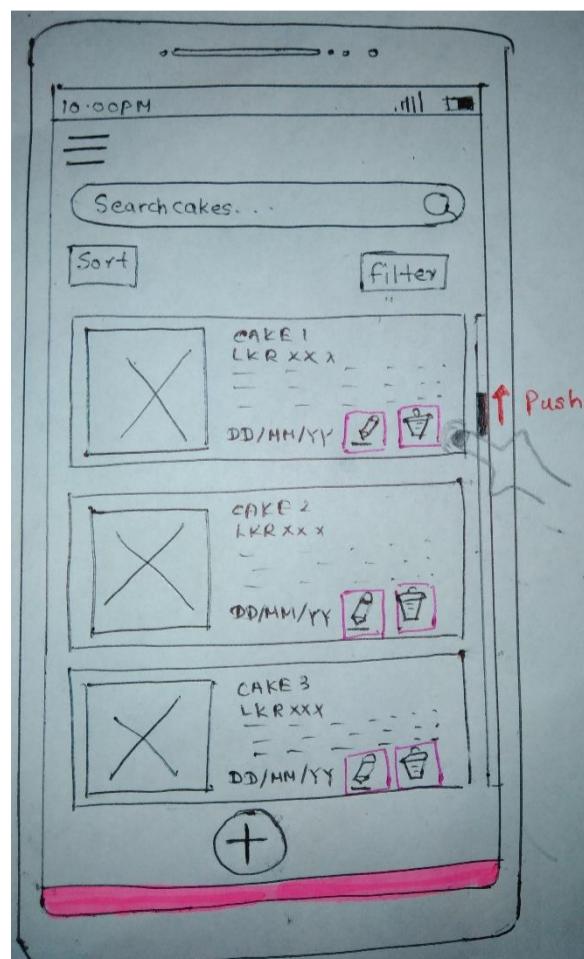
Screenshot of the GUI	Proposed sketch	Proposed wireframe
		

Interface 4 – Cake List - Admin

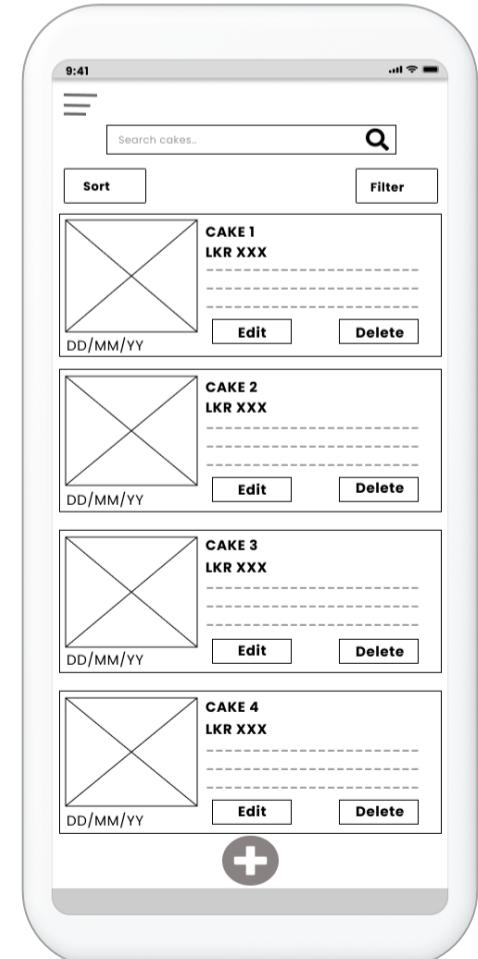
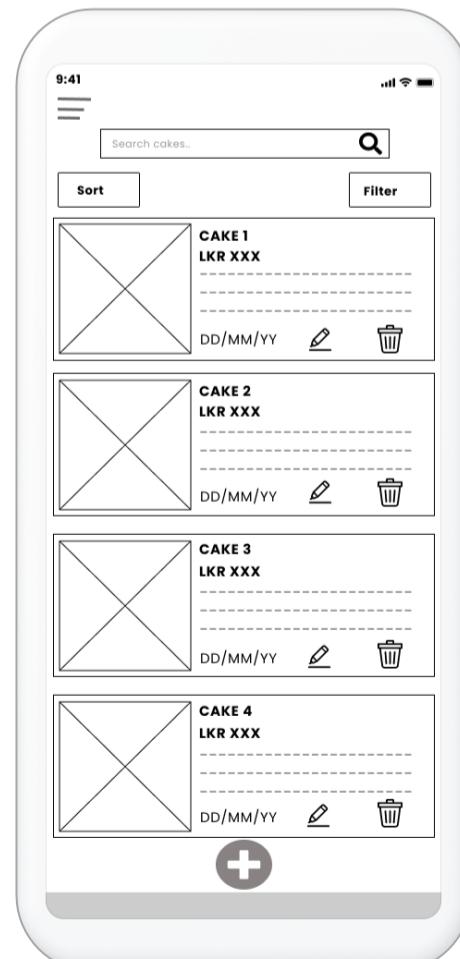
Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe

Sketches



Wireframes



Interface 5 – Category List - Admin

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe

Interface 6 – Side Navigation

Design Suggestions

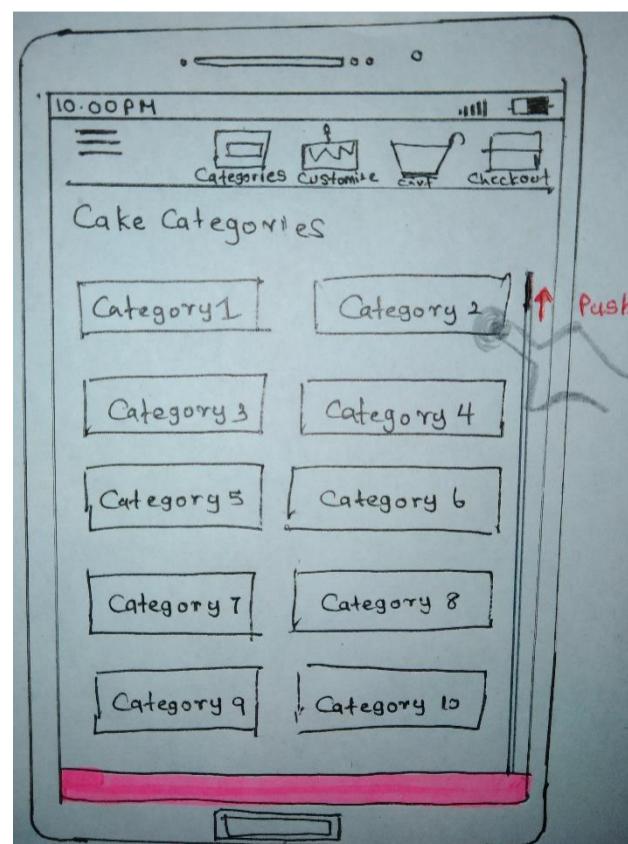
Screenshot of the GUI	Proposed sketch	Proposed wireframe

Interface 7 – Category List

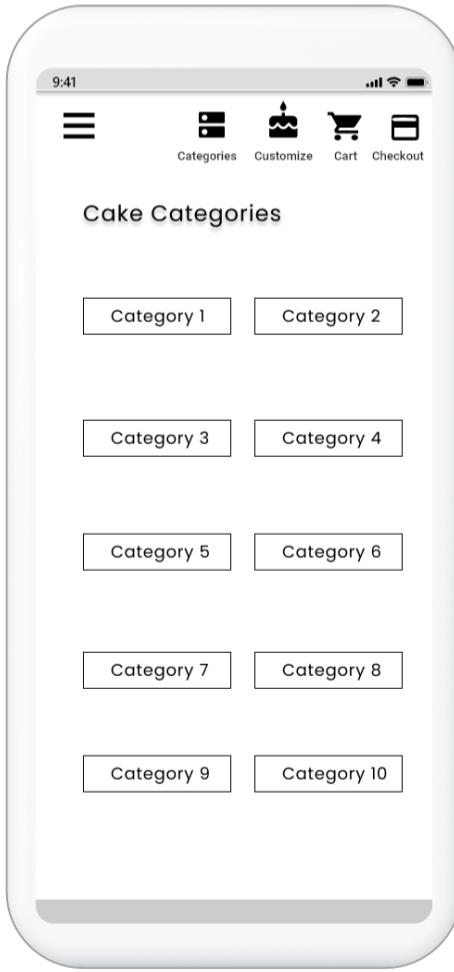
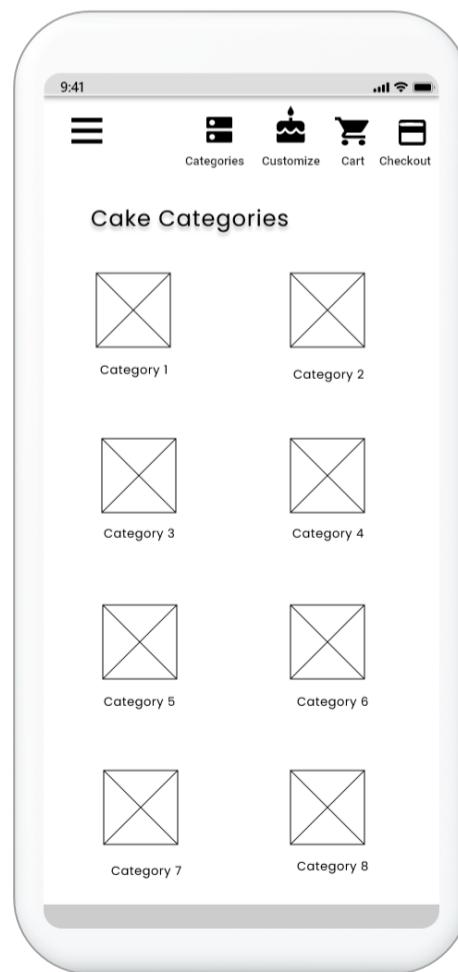
Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
<p>The screenshot shows a mobile application interface. At the top, there are navigation icons: a key (Login), a square (Categories), a shopping cart (Checkout), and a credit card (Rs 0.00). Below this is a list of categories with their respective counts:</p> <ul style="list-style-type: none"> Same day Delivery (10) X-Mas/New Year Cakes (11) Cakes (71) Shape Cakes (37) Heart & Flower Cakes (9) Kids Cake (28) Picture/photo Cake (11) All occasion cakes (30) Cheese Cakes (5) Smiley (1) <p>At the bottom left is an 'Information' section with links like 'About Us', 'Loyalty Discount Program', etc., and at the bottom right is a 'Customer Service' section with links like 'Contact Us', 'Login', etc.</p>	<p>The proposed sketch shows a screen titled "Cake Categories". It features a grid of ten category cards, each with a crossed-out icon. The cards are labeled: Category 1, Category 2, Category 3, Category 4, Category 5, Category 6, Category 7, Category 8, Category 9, and Category 10. A red arrow points to Category 2 with the word "Push" written next to it, suggesting a modal or detailed view for that category.</p>	<p>The proposed wireframe shows a screen titled "Cake Categories". It features a grid of eight category cards, each with a crossed-out icon. The cards are labeled: Category 1, Category 2, Category 3, Category 4, Category 5, Category 6, Category 7, and Category 8.</p>
<p>Failure points of the UI:</p> <ul style="list-style-type: none"> Category list is just like a dropdown list. Not an attractive UI 	<p>Suggested solutions</p> <ul style="list-style-type: none"> Create a list of categories by adding a related picture to recognize easily 	

Sketches



Wireframes



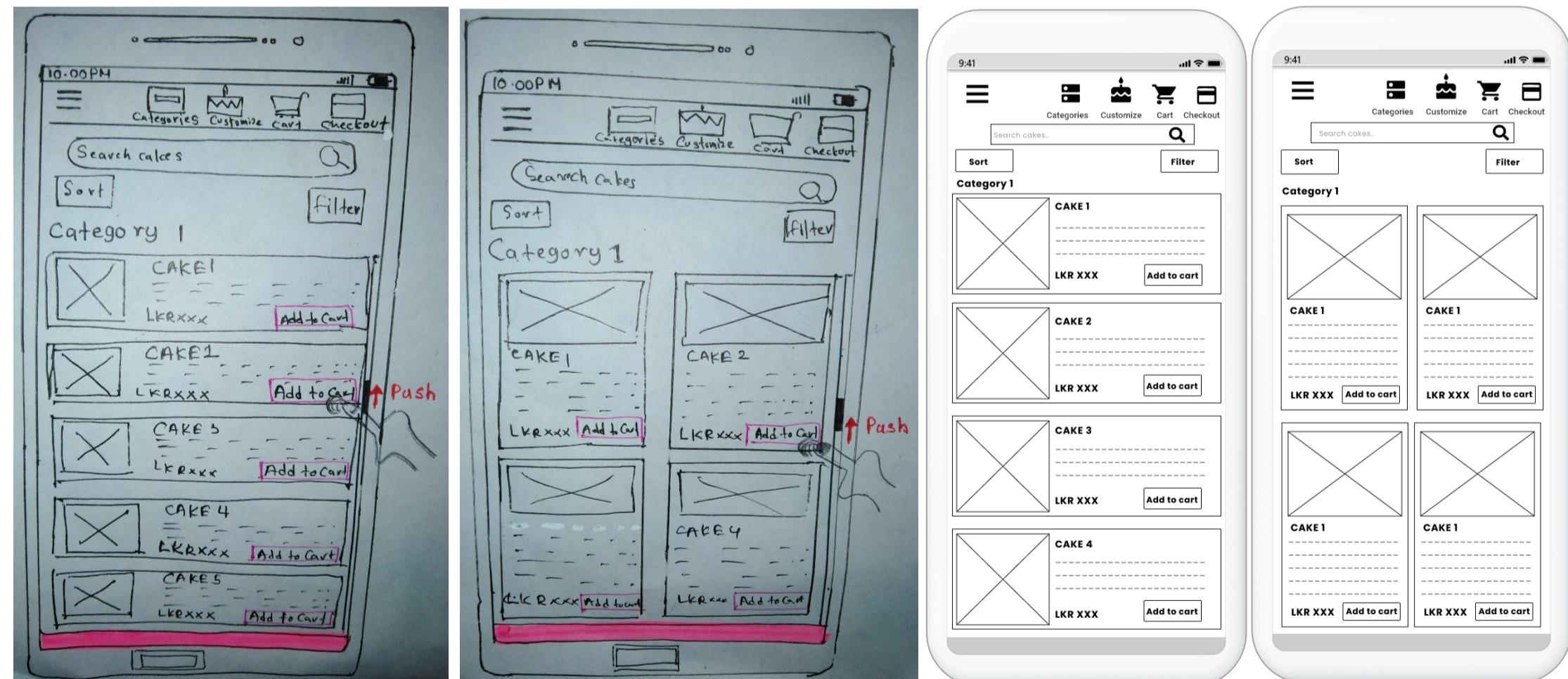
Interface 8 – Single Category

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
<p>Kids Cake</p> <p>Sort By: Default Show: 6</p> <ul style="list-style-type: none"> SINGLE DIGIT NUMBER SHAPE CAKE Shape cakes should be placed one day before the delivery date.. Rs 2,400.00 Add to Cart FROZEN PICTURE CAKE Please upload a clear picture to be printed on the cake.. Rs 1,100.00 Add to Cart KITTY SHAPE CAKE 6 Rs 1,800.00 Add to Cart CRICKET BAT & BALL Shape cakes should be placed one day before the delivery date.. Rs 3,000.00 Add to Cart TOM & JERRY PICTURE CAKE Please upload a clear picture to be Add to Cart 		
Failure points of UI <ul style="list-style-type: none"> No search option to search cakes 	Suggested solution <ul style="list-style-type: none"> Add a search bar to search cakes Add a filter option to filter cakes 	

Sketches

Wireframes



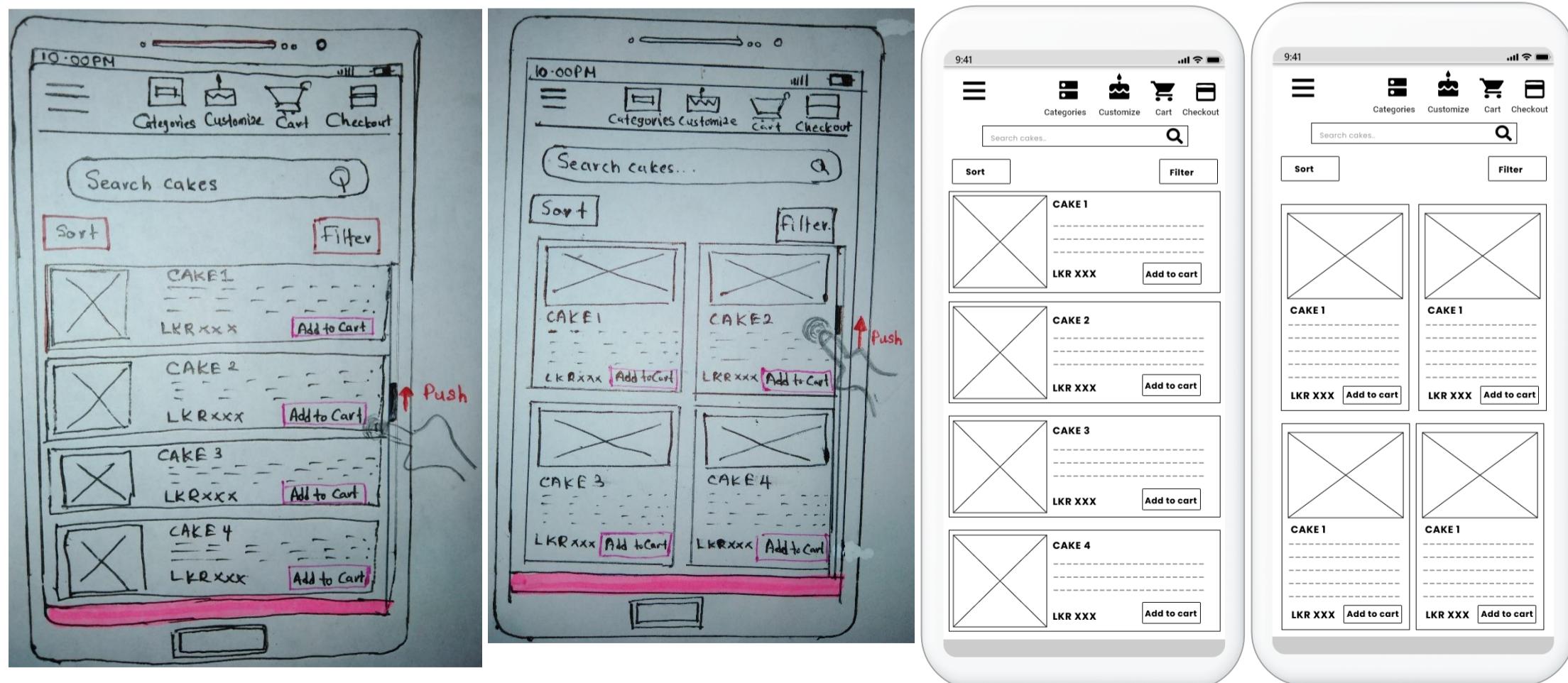
Interface 9 – Cake List

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
<p>The screenshot shows a mobile application interface for a cake shop. At the top, there are navigation icons for Login, Categories, and Checkout. Below is a list of five cakes:</p> <ul style="list-style-type: none"> DOUBLE CHOCOLATE CAKE: Rs 850.00, Add to Cart DEATH BY CHOCOLATE MOUSSE CAKE: Rs 900.00, Add to Cart BOUNTY CHOCOLATE: Rs 750.00, Add to Cart ALMOND CHOCOLATE: Rs 850.00, Add to Cart CAPPUCCINO CAKE: Rs 800.00, Add to Cart 	<p>A hand-drawn sketch of the cake list screen. It features a header with 'Categories', 'Customize', 'Cart', and 'Checkout'. Below is a search bar labeled 'Search cakes...'. There are 'Sort' and 'Filter' buttons. The main area displays four cakes labeled CAKE 1, CAKE 2, CAKE 3, and CAKE 4, each with an 'Add to Cart' button. A red arrow labeled 'Push' points from the bottom of the current screen to the next screen in the sequence.</p>	<p>A wireframe of the cake list screen. It has a header with 'Categories', 'Customize', 'Cart', and 'Checkout'. Below is a search bar labeled 'Search cakes...'. There are 'Sort' and 'Filter' buttons. The main area displays four cakes labeled CAKE 1, CAKE 2, CAKE 3, and CAKE 4, each with an 'Add to cart' button. A red arrow labeled 'Push' points from the bottom of the current screen to the next screen in the sequence.</p>
<p>Failure points of UI</p> <ul style="list-style-type: none"> No search, sort and filter options to find cakes 	<p>Suggested solutions</p> <ul style="list-style-type: none"> Add search bar to search cakes Add sort options to sort cakes according to preference of the customer Add filter option to filter cakes 	

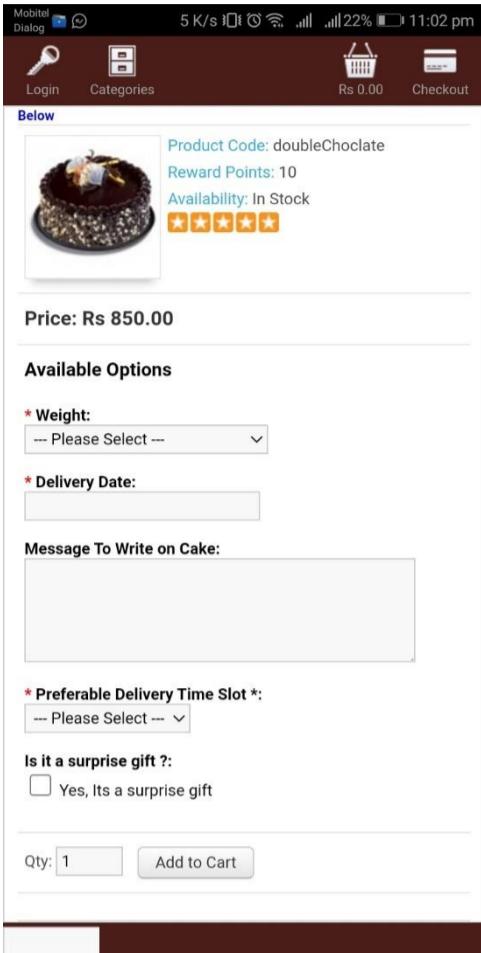
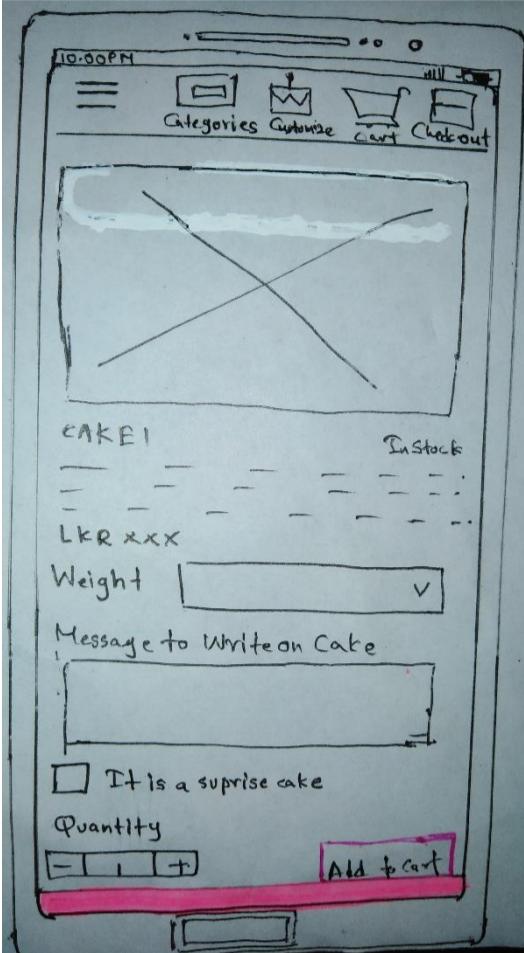
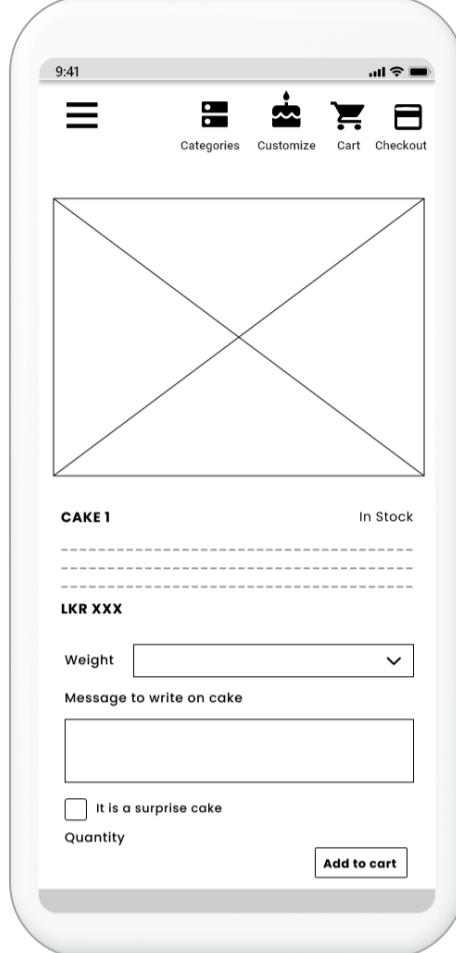
Sketches

Wireframes



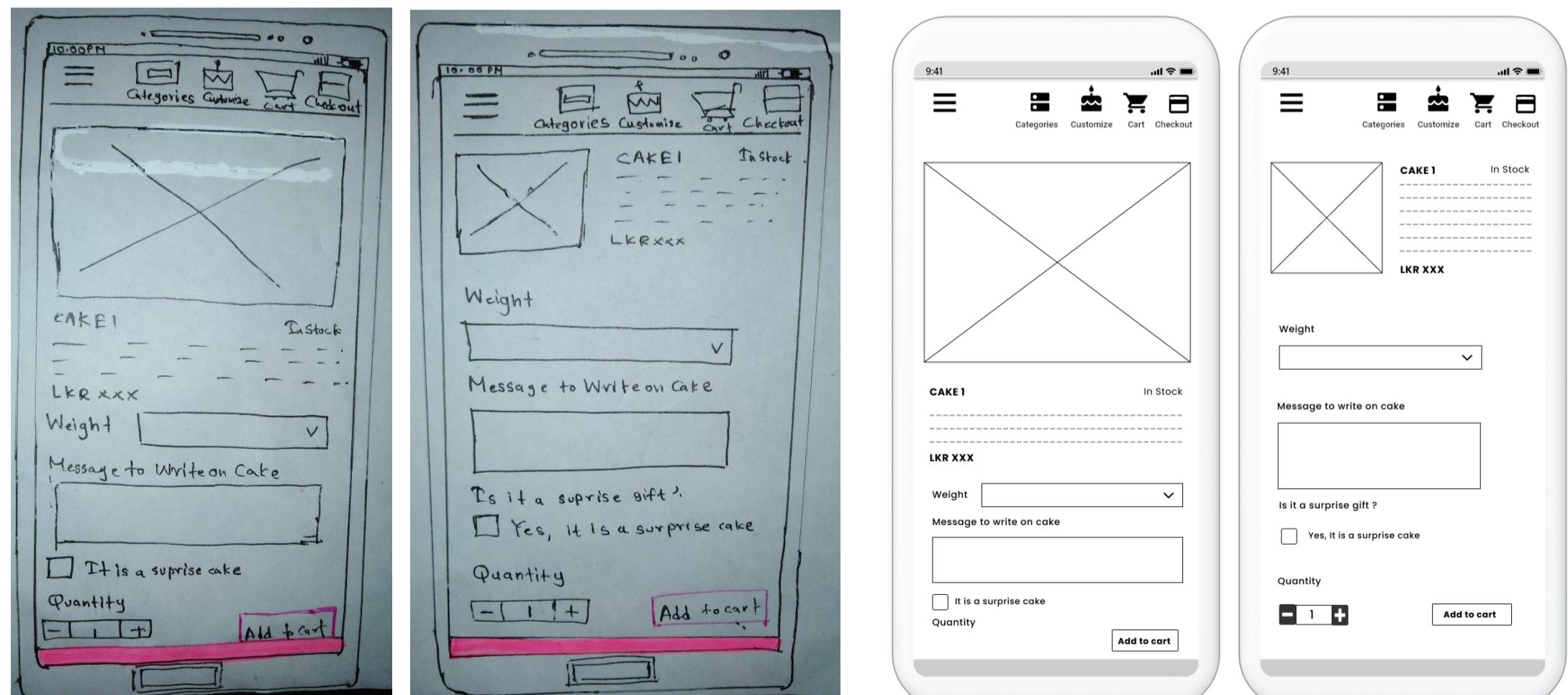
Interface 10 – Single View of a Cake

Design Suggestions

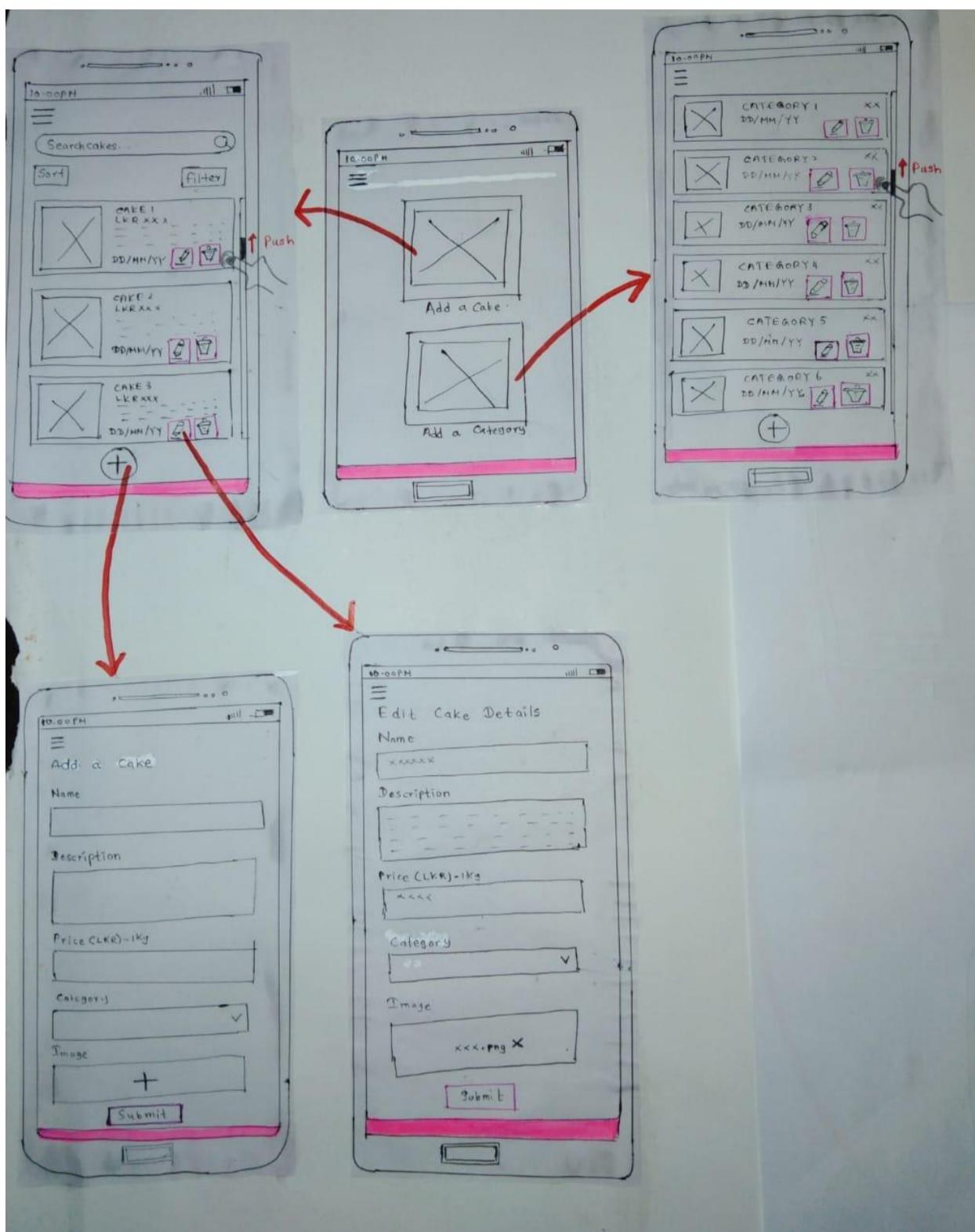
Screenshot of the GUI	Proposed sketch	Proposed wireframe
 <p>The screenshot shows a mobile application interface for a cake product. At the top, there are navigation icons for Login, Categories, Rs 0.00, and Checkout. Below the header, a product image of a chocolate cake is displayed with the text "Product Code: doubleChocolate", "Reward Points: 10", and "Availability: In Stock". A rating of 5 stars is shown. The price is listed as "Rs 850.00". A section titled "Available Options" contains fields for "Weight" (dropdown menu), "Delivery Date" (text input), and "Message To Write on Cake" (text area). A note "Preferable Delivery Time Slot:" with a dropdown menu follows. A checkbox for "Is it a surprise gift?" is present, with the option "Yes, It's a surprise gift". A quantity field set to "1" and an "Add to Cart" button are at the bottom.</p>	 <p>A hand-drawn sketch of the same mobile application interface. A large black 'X' is drawn across the entire screen area, indicating a failure point or a proposed redesign.</p>	 <p>A clean, digital wireframe of the mobile application interface. It includes the header with navigation icons, a product image, and a summary row with price and availability. Below this, sections for "CAKE 1", "Weight", "Message to Write on Cake", and "Add to Cart" are shown. A large black 'X' is centered on the screen.</p>
Failure points of UI <ul style="list-style-type: none"> Small image of the cake Input fields are too small. Too much information in this UI Changing the quantity is little bit difficult. 	Suggested solutions <ul style="list-style-type: none"> Add a clear large image of the cake to recognize easily Increase the size of the input fields Reduce unwanted information Add + and - buttons to increase and decrease the quantity of the item. 	

Sketches

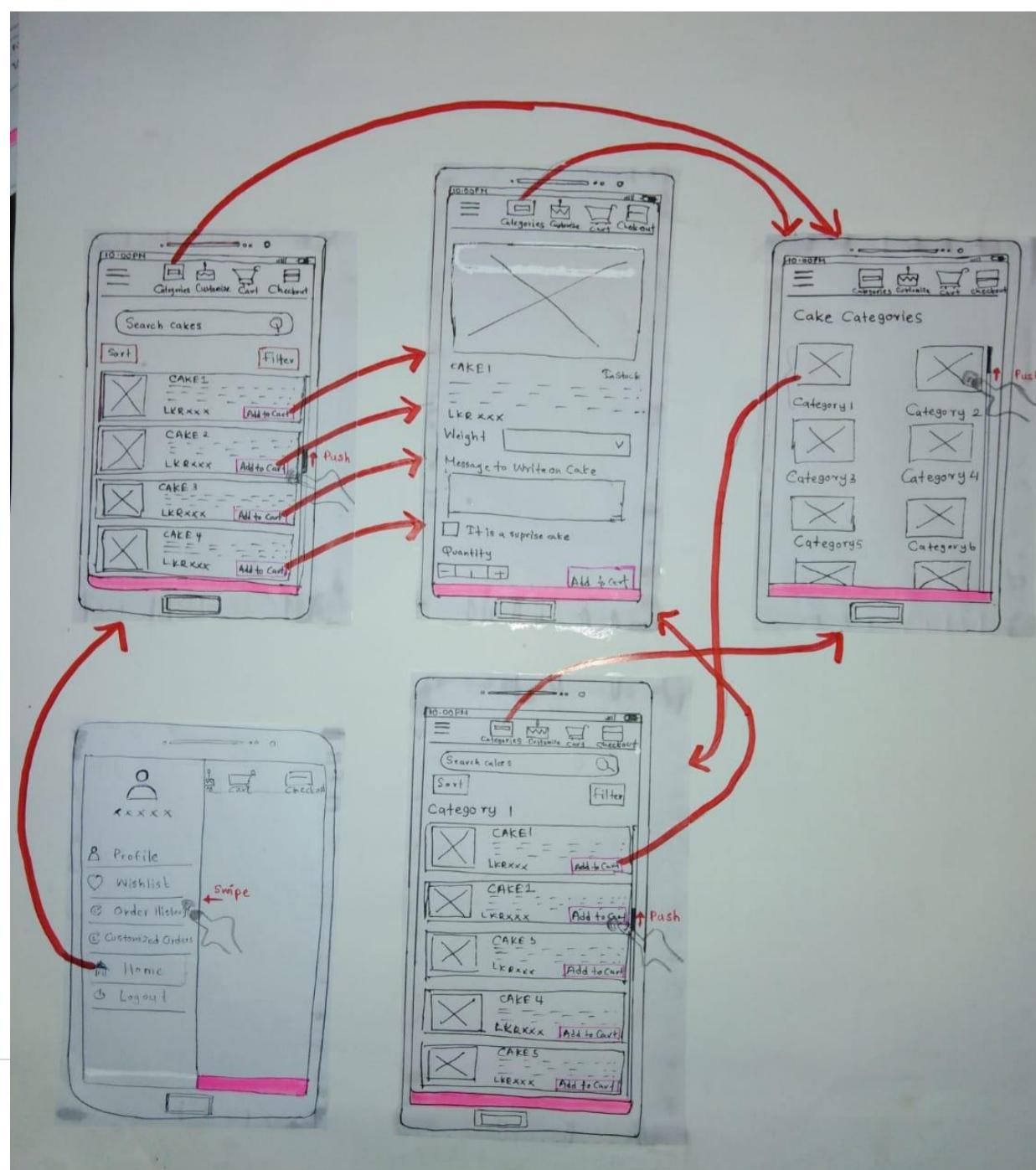
Wireframes



Connection between UIs

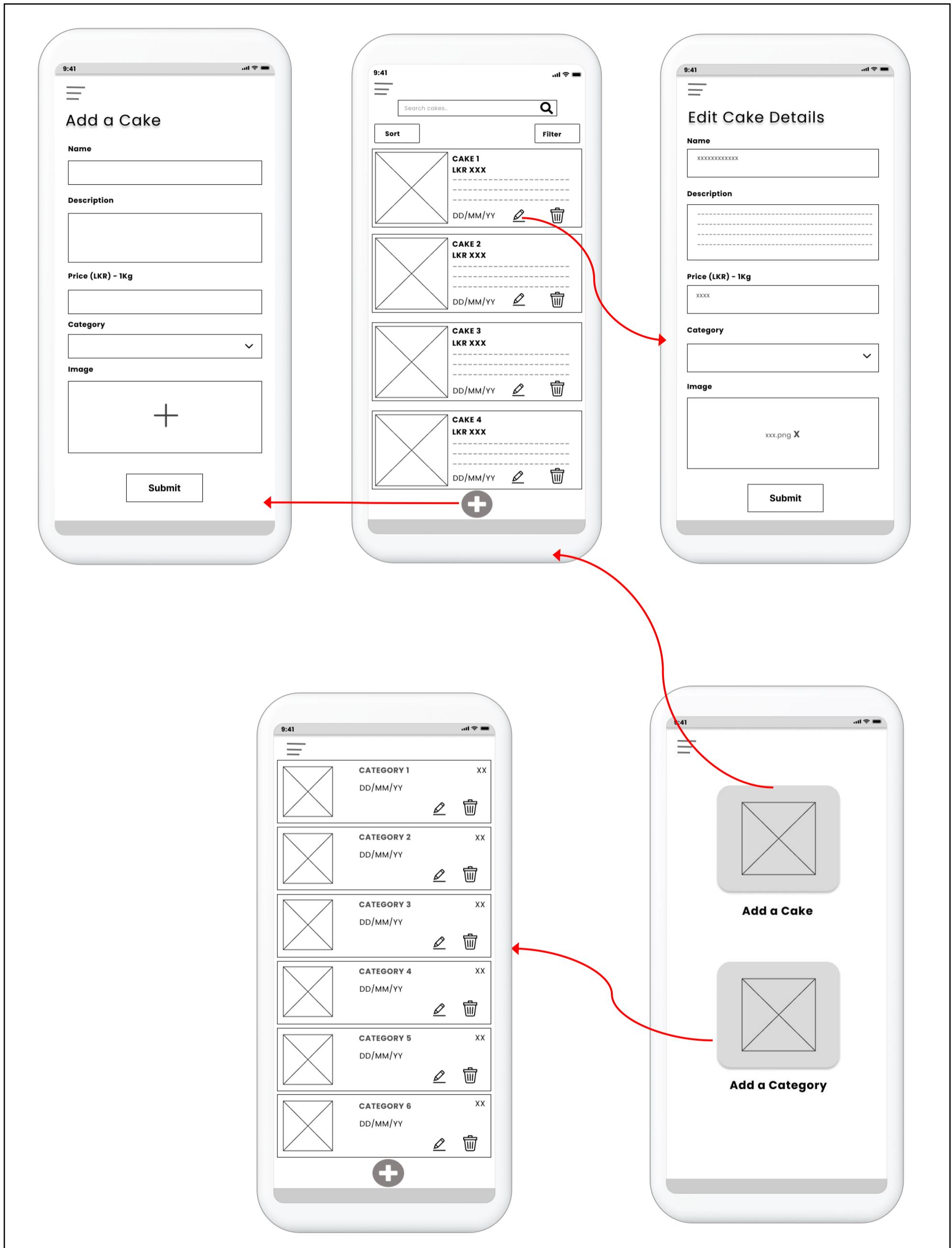


Admin

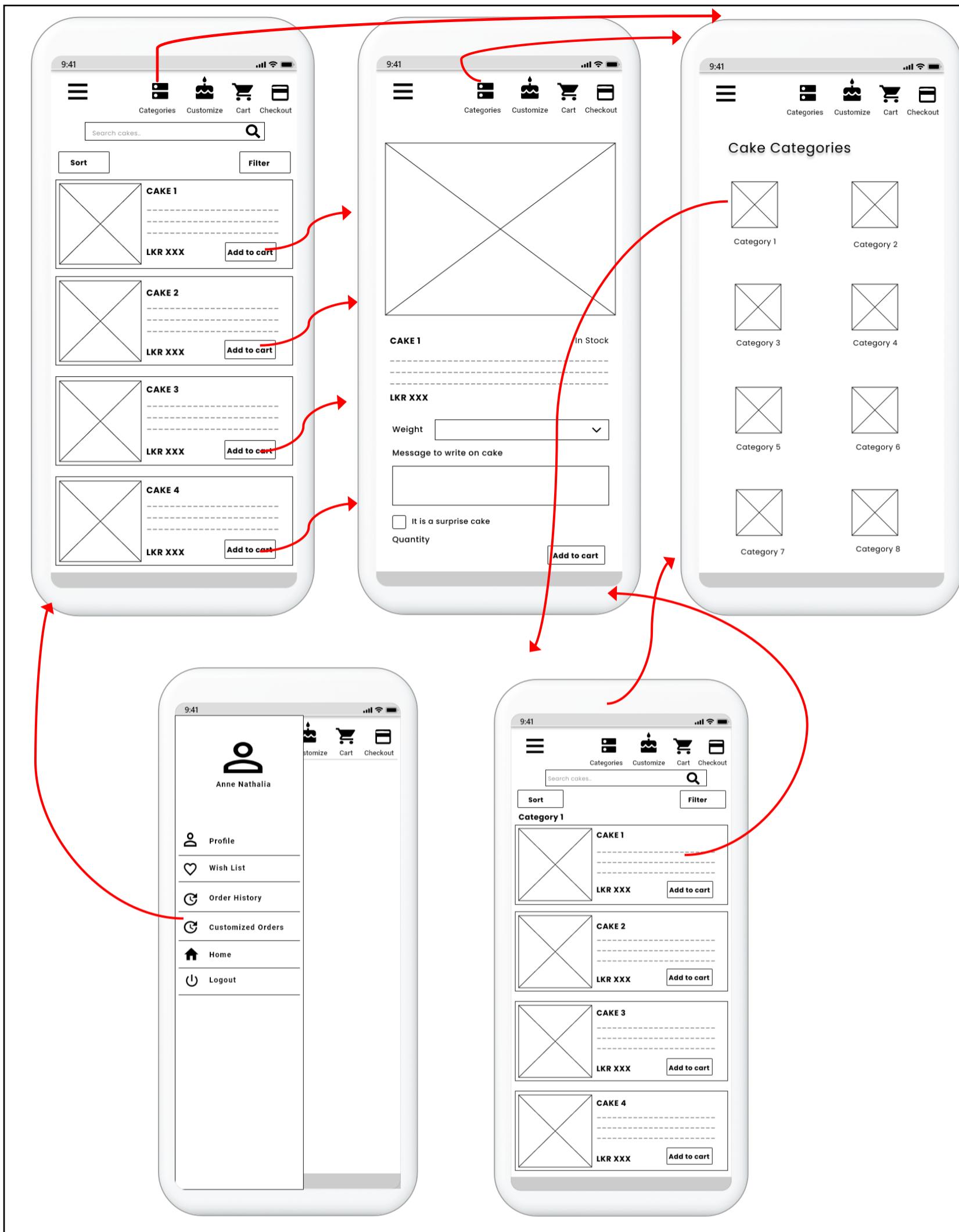


Customer UIs

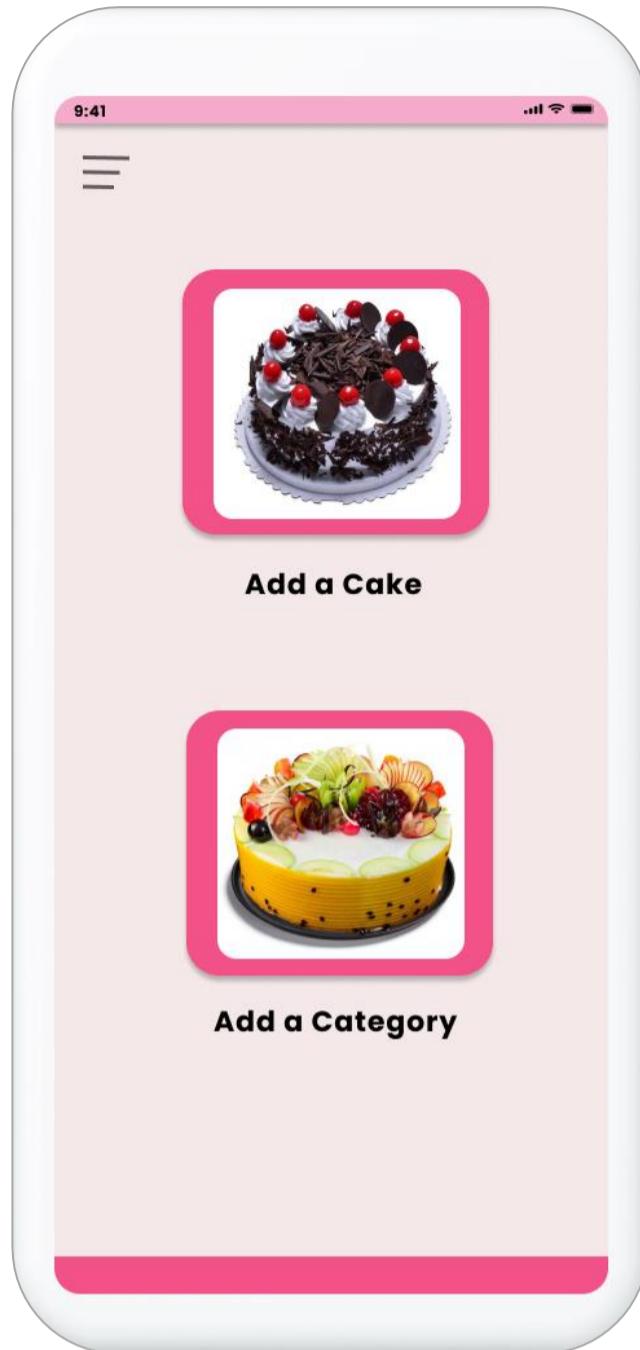
Connection between UIs – Admin UIs



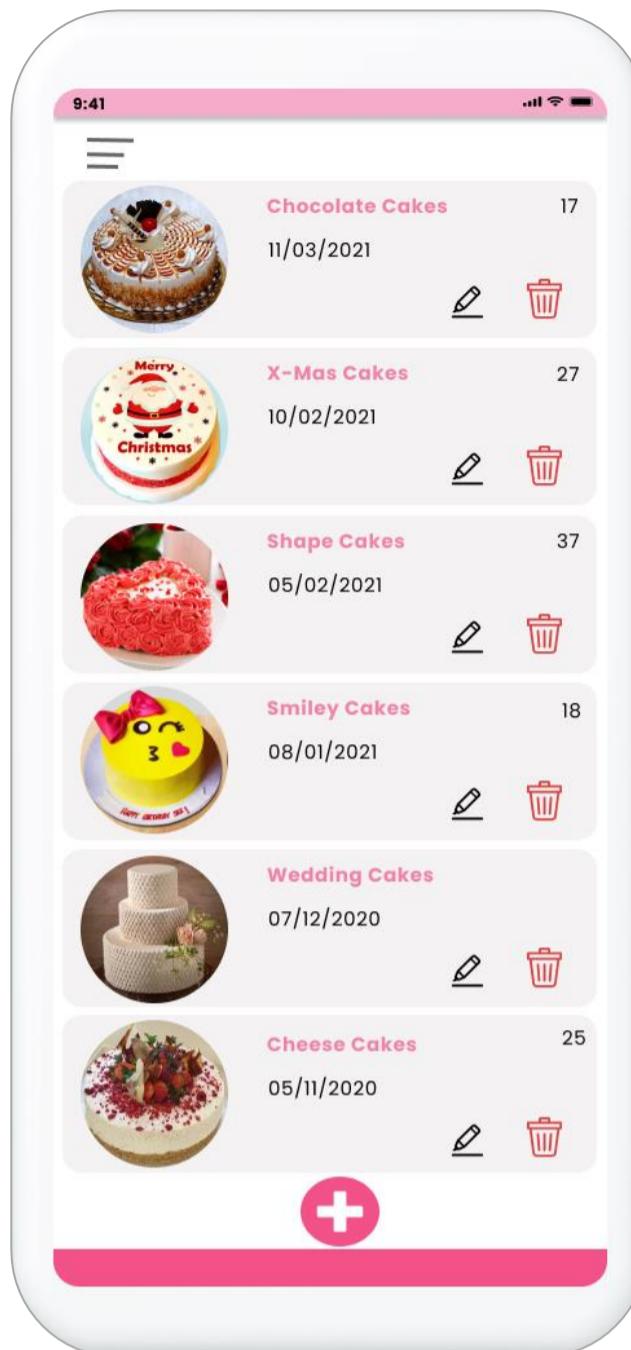
Connection between UIs – Customer UIs



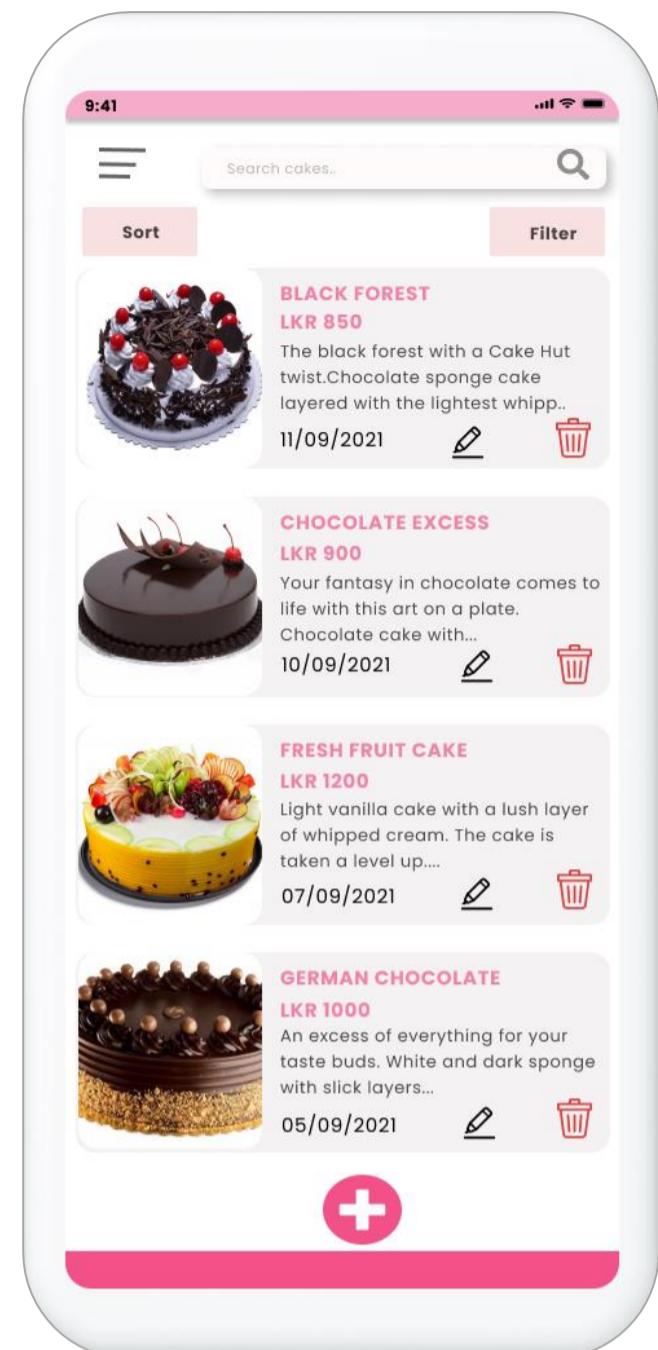
Prototype Version 1



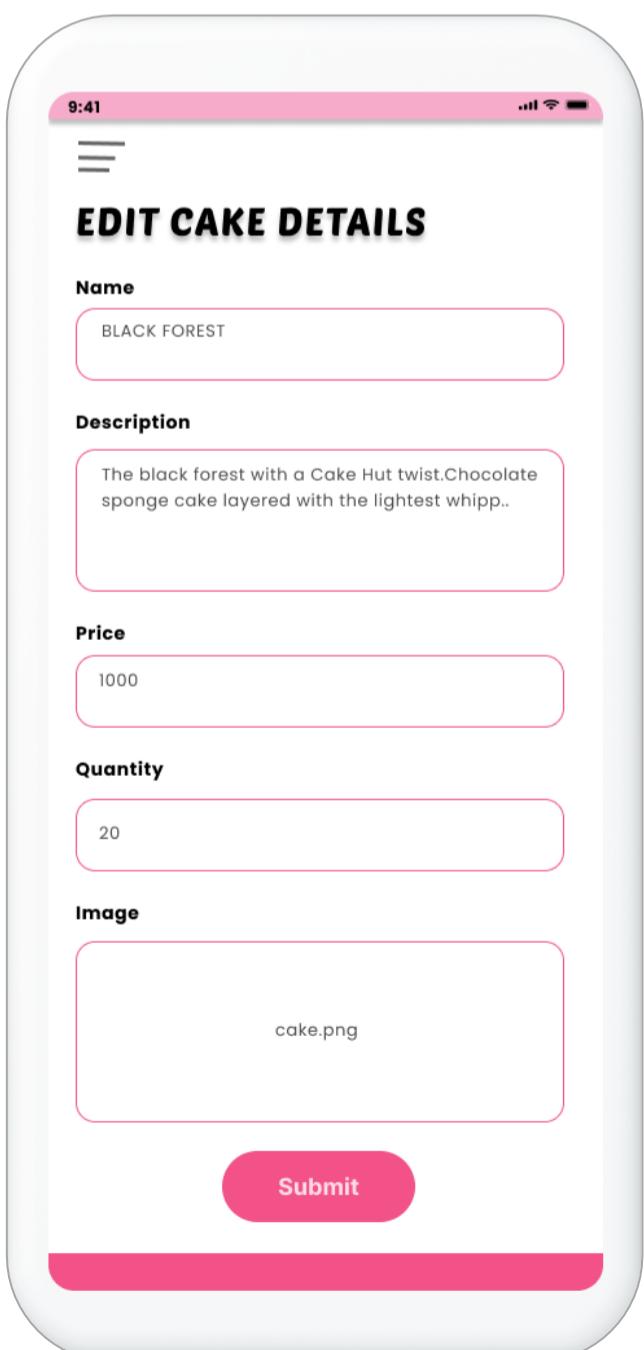
Home - Admin



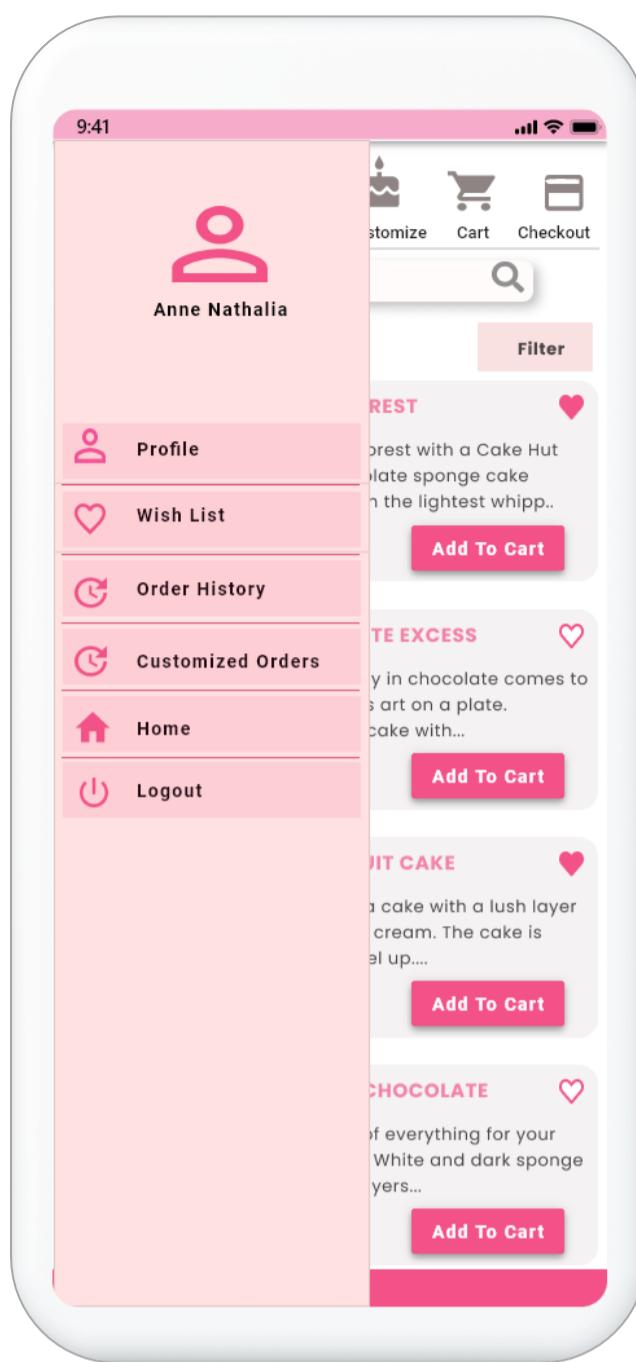
Category List - Admin



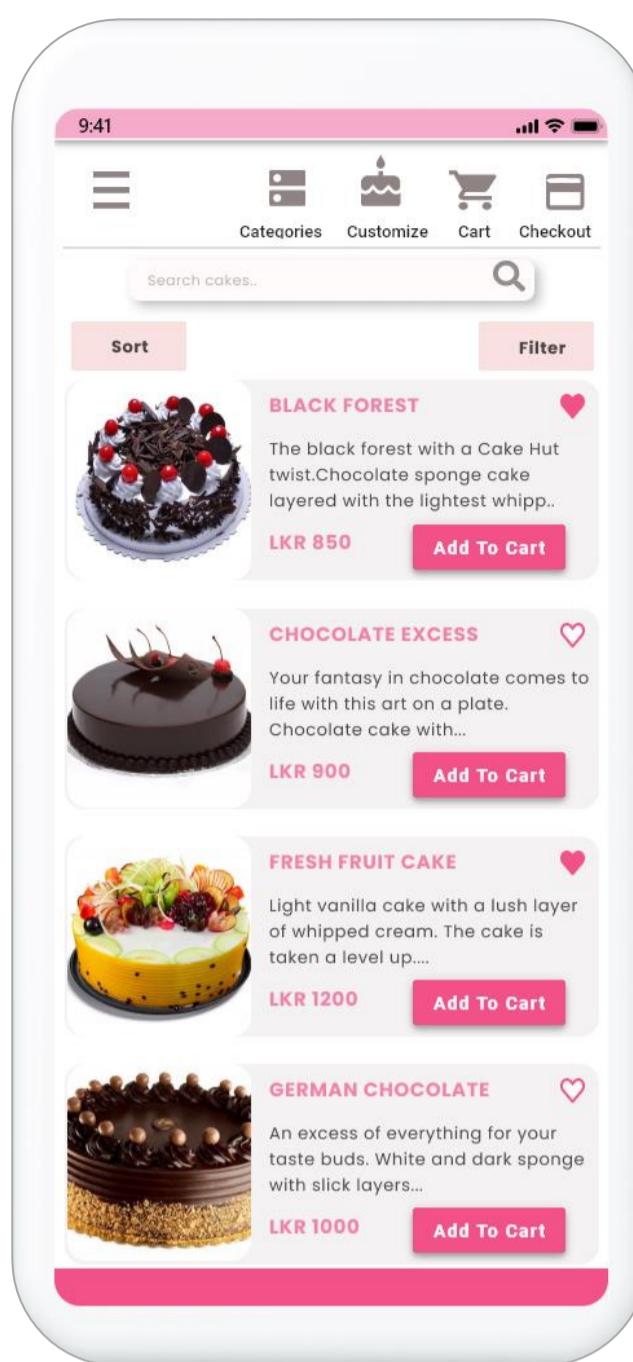
Cake List - Admin



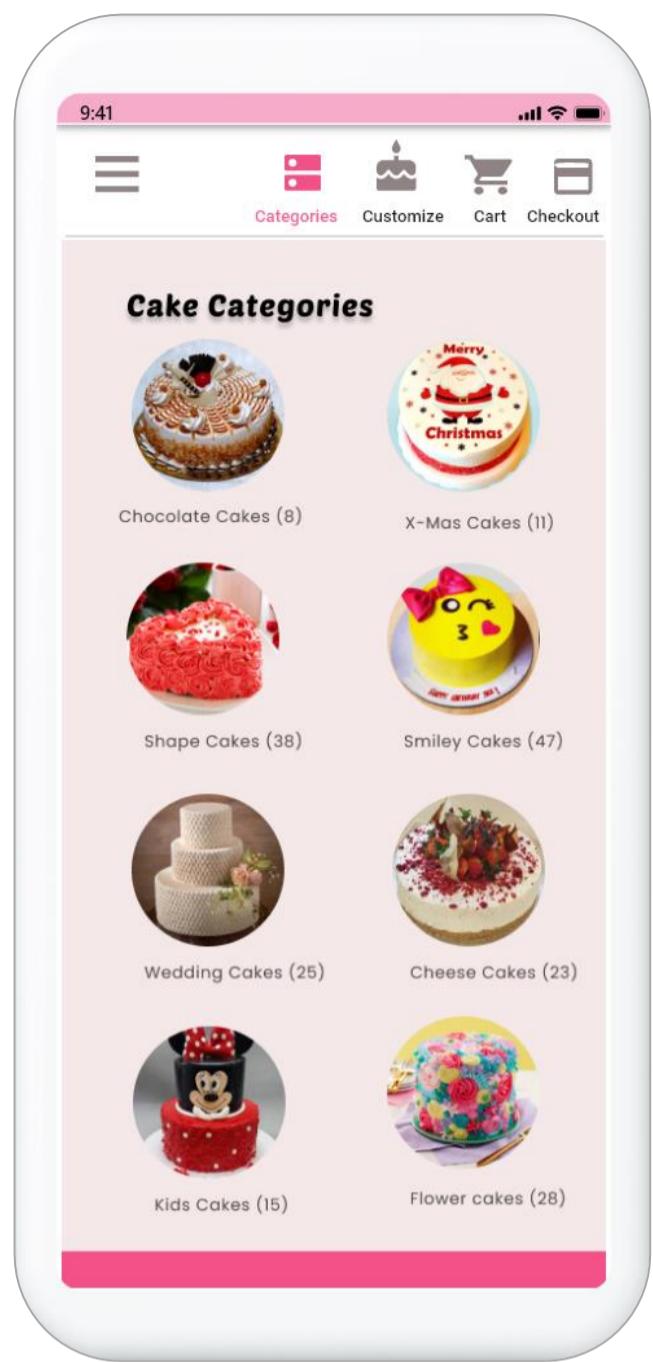
Edit Cake - Admin



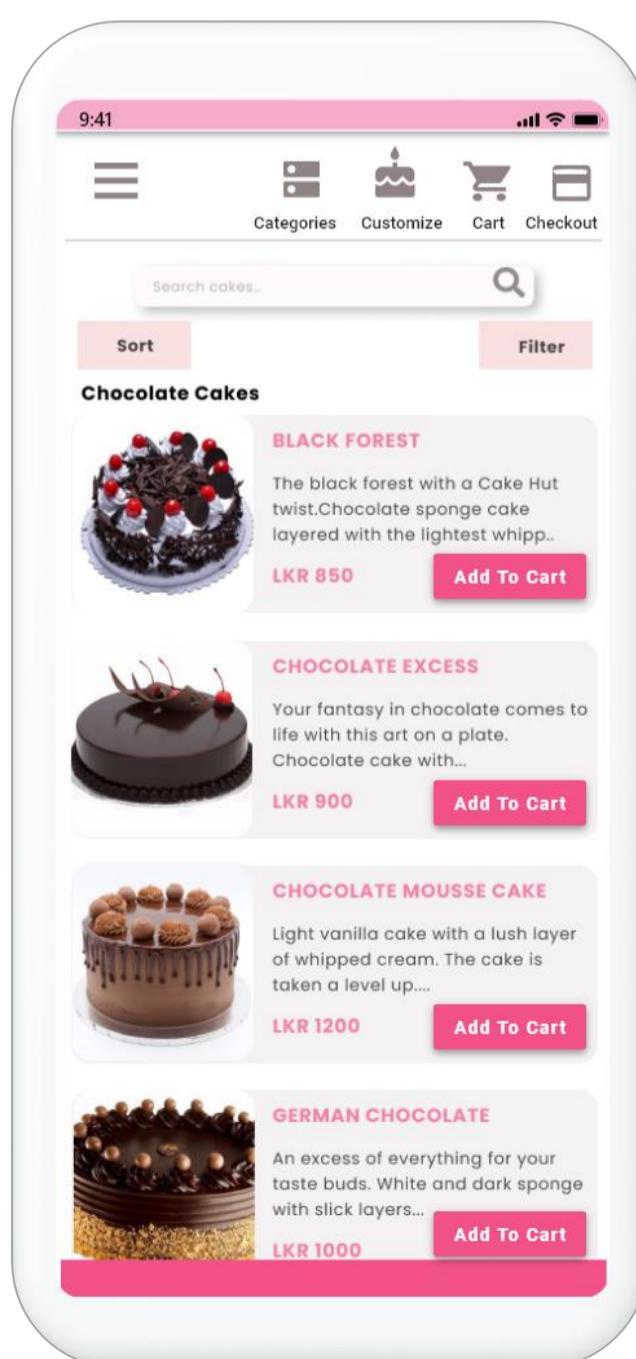
Side Navigation



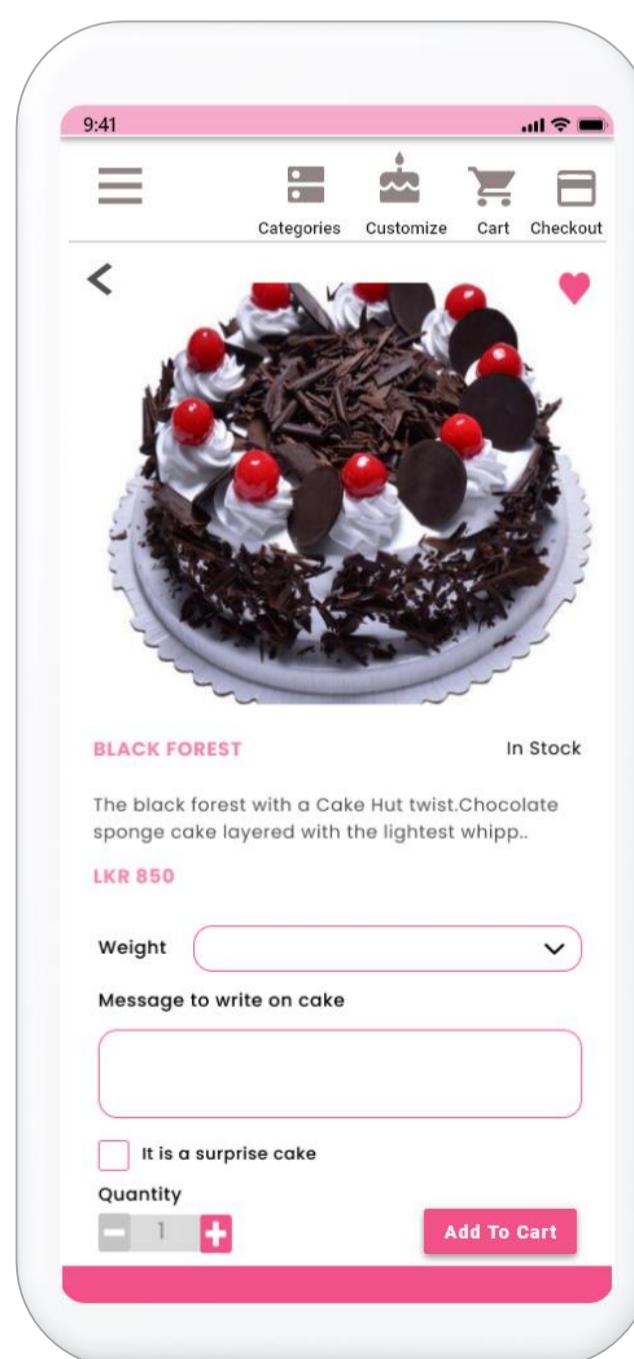
Cake List



Category List

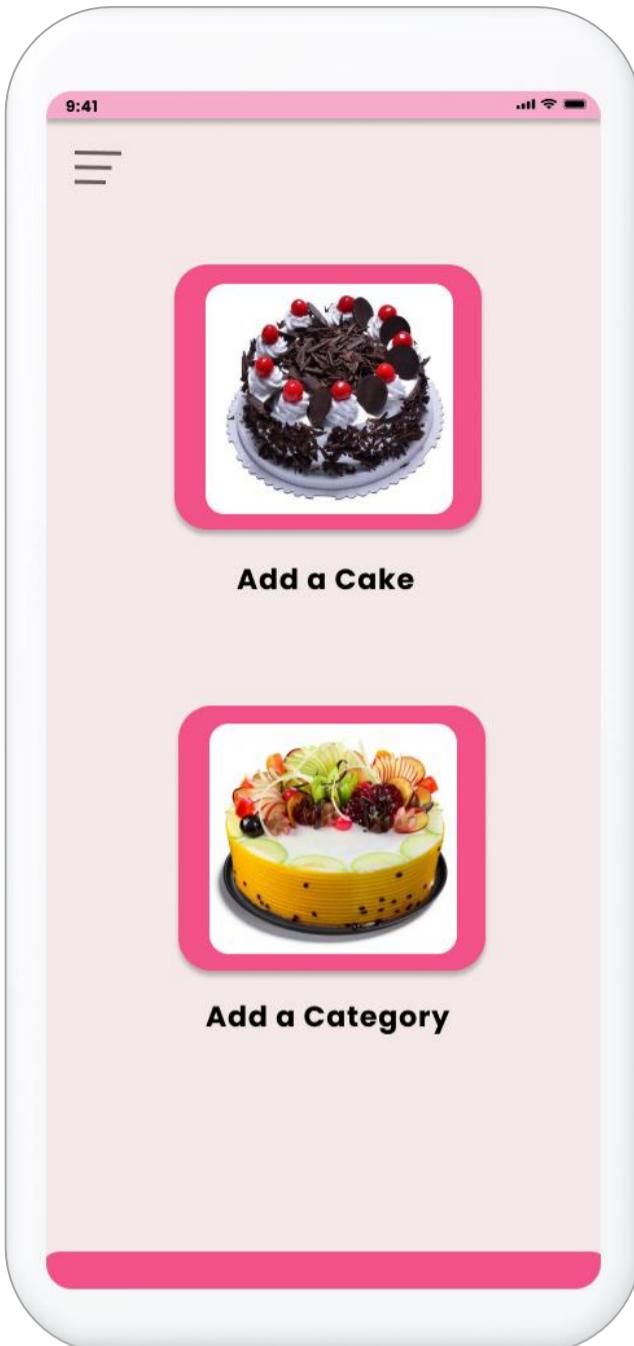


Single Category

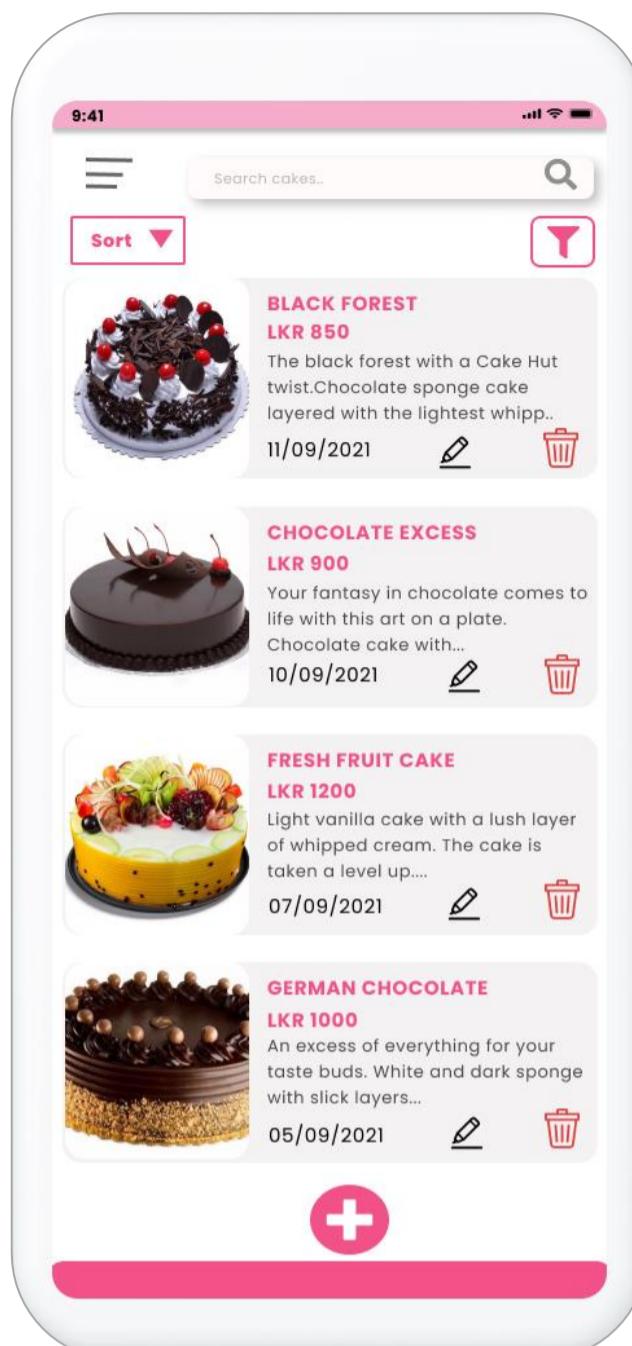


Single View of a Cake

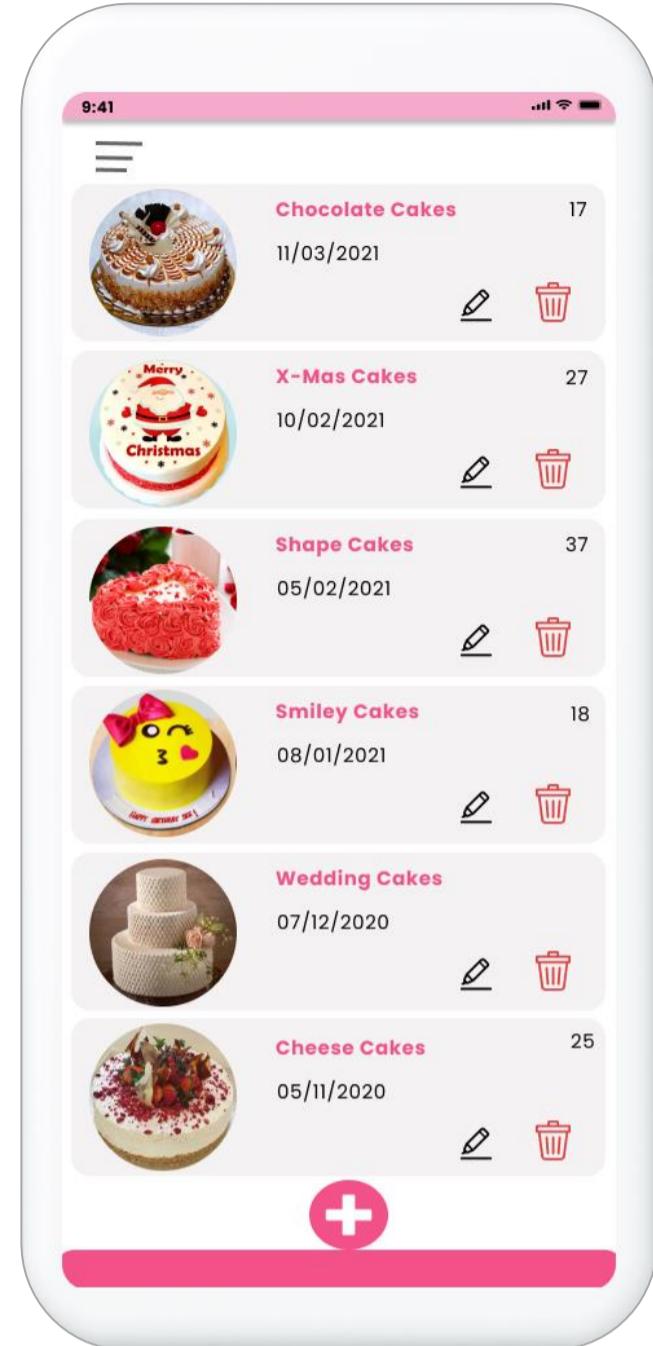
Prototype Version 2



Home - Admin



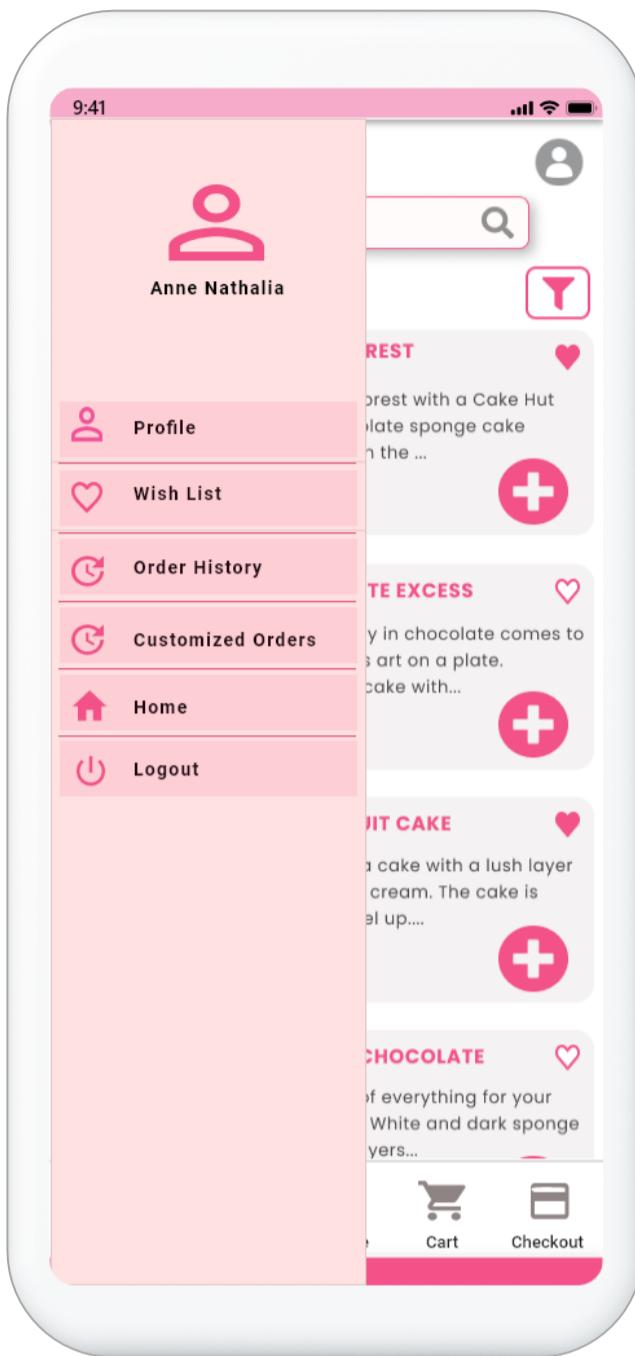
Cake List - Admin



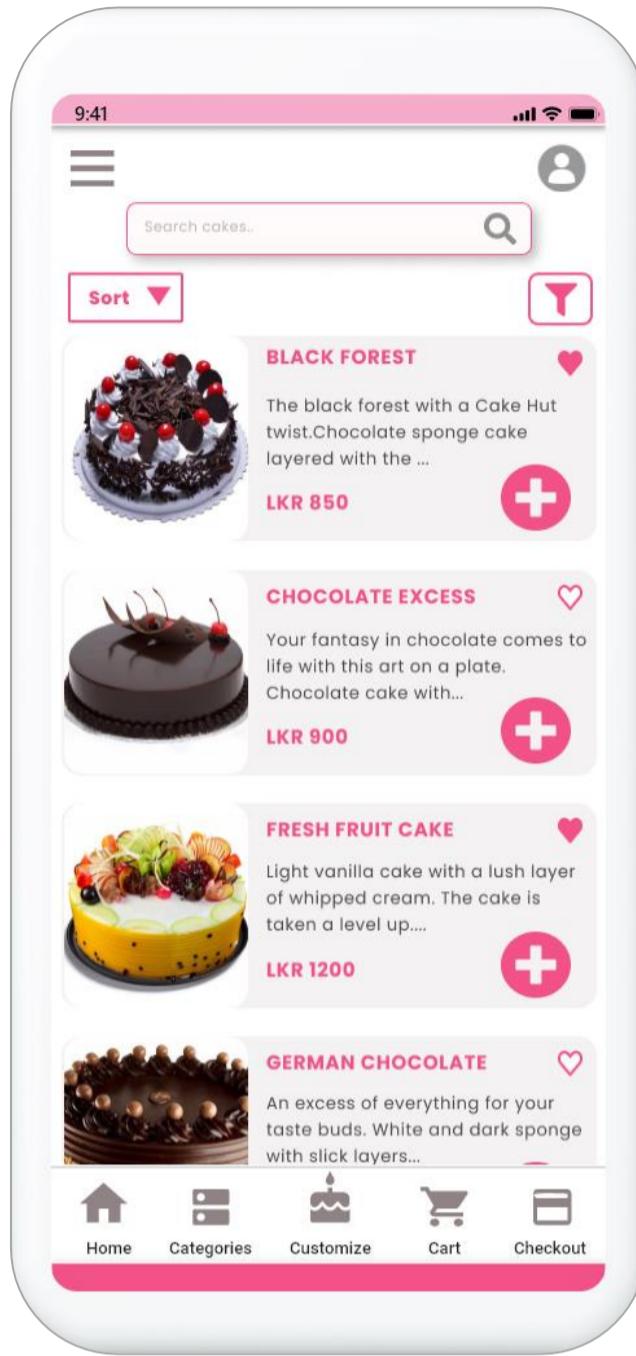
Category List - Admin

The Edit Cake Details screen allows editing of cake details. It includes fields for Name (Black Forest), Description (The black forest with a Cake Hut twist. Chocolate sponge cake layered with the lightest whipp..), Price (1000), Quantity (20), and Image (cake.png). A "Submit" button is at the bottom.

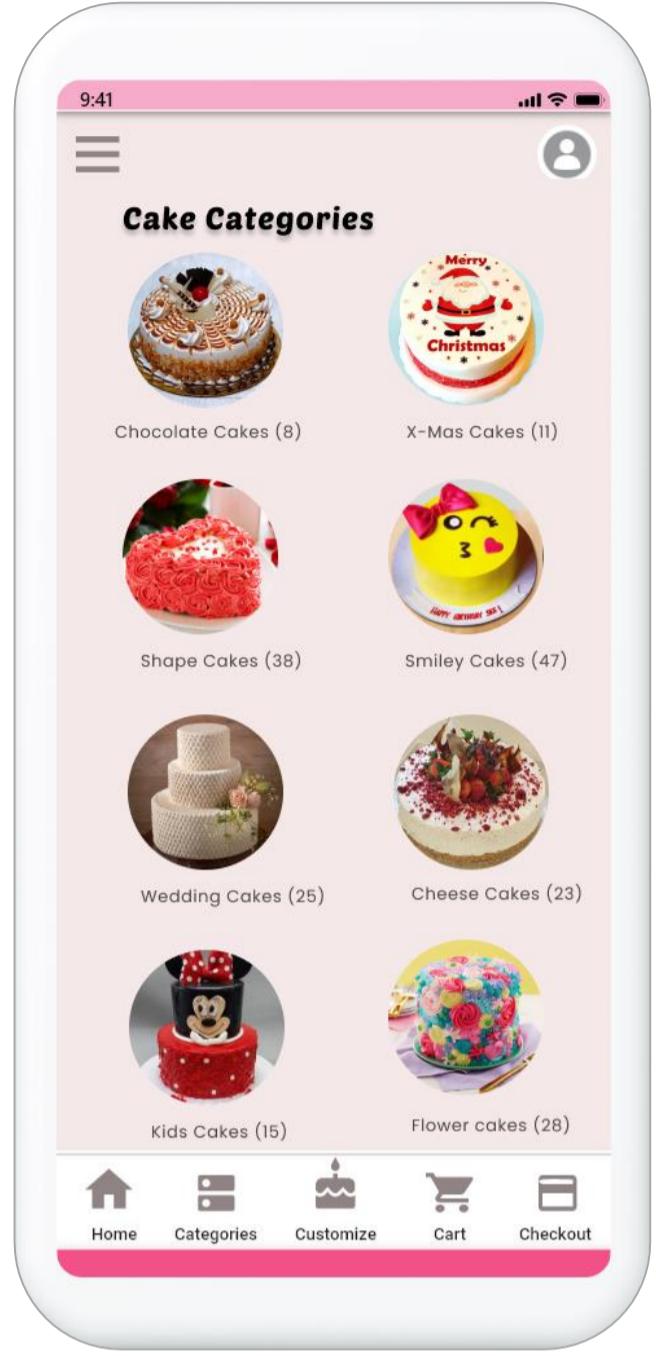
Edit Cake - Admin



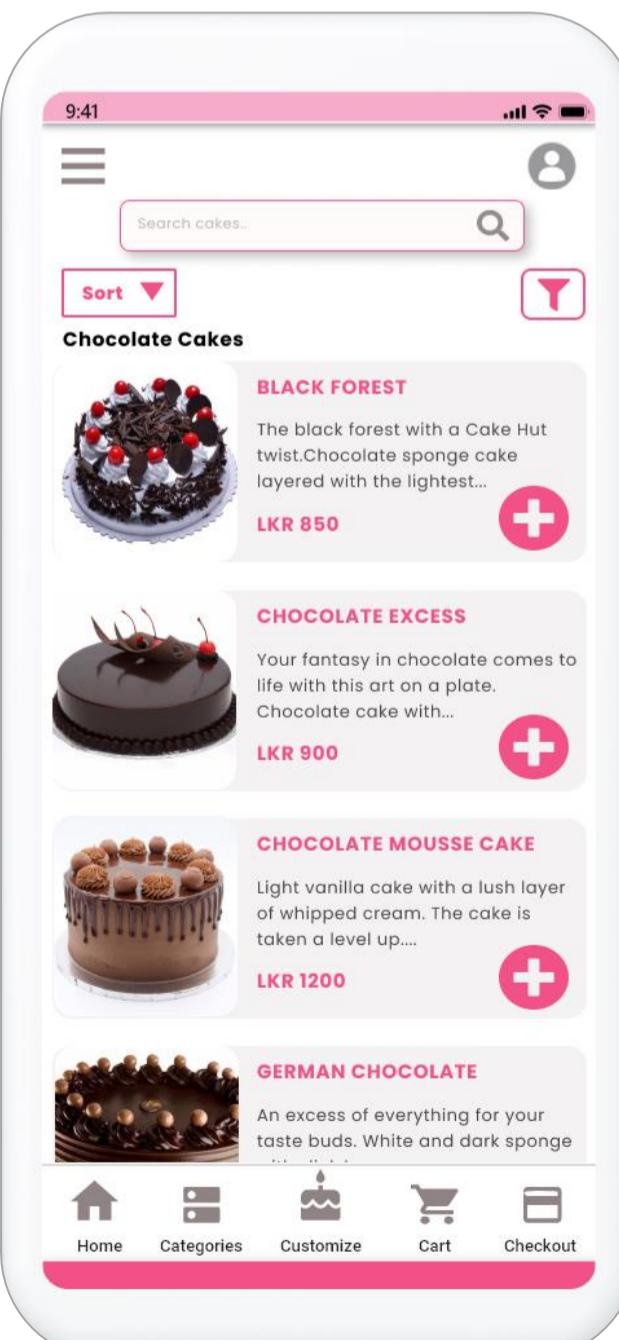
Side Navigation



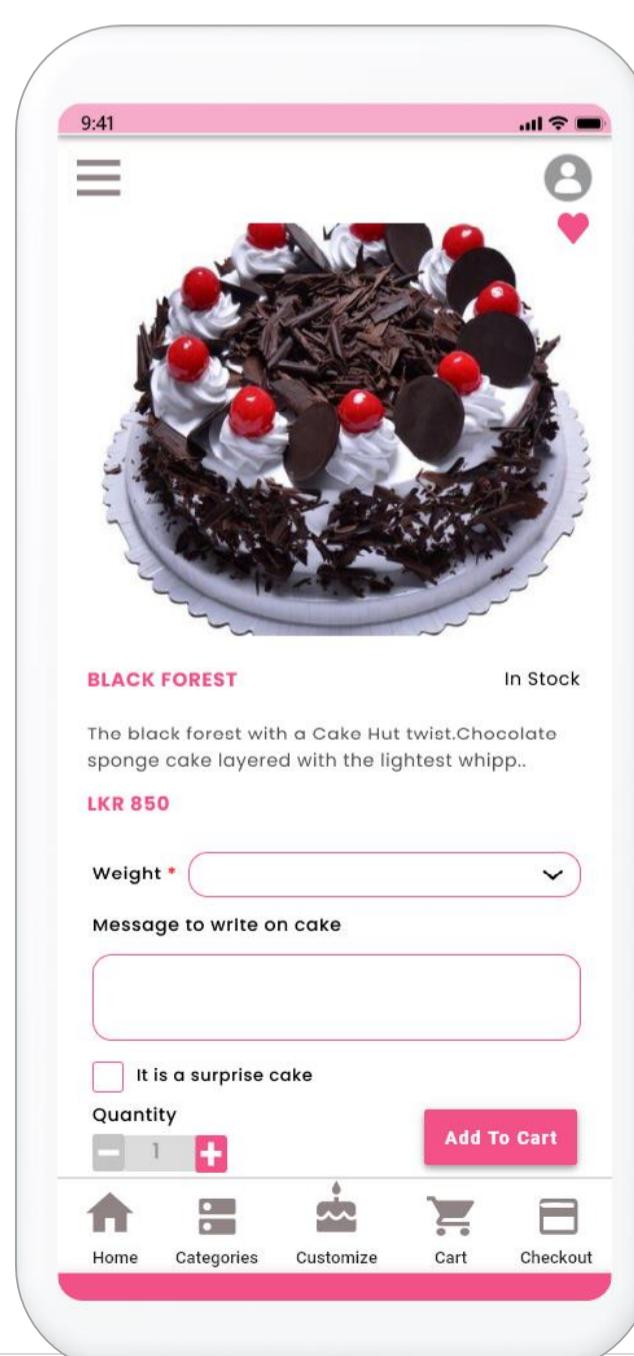
Cake List



Category List



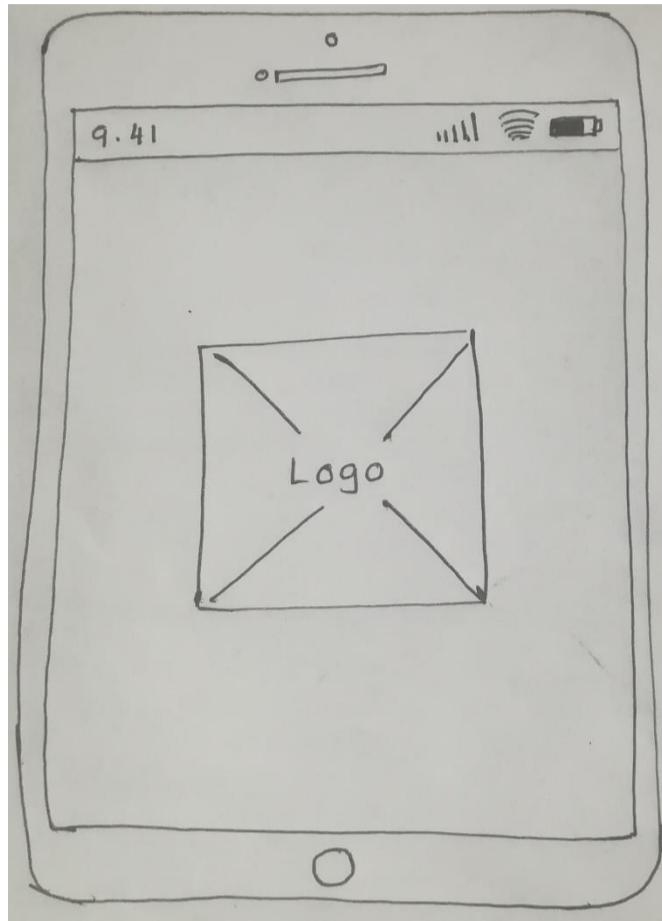
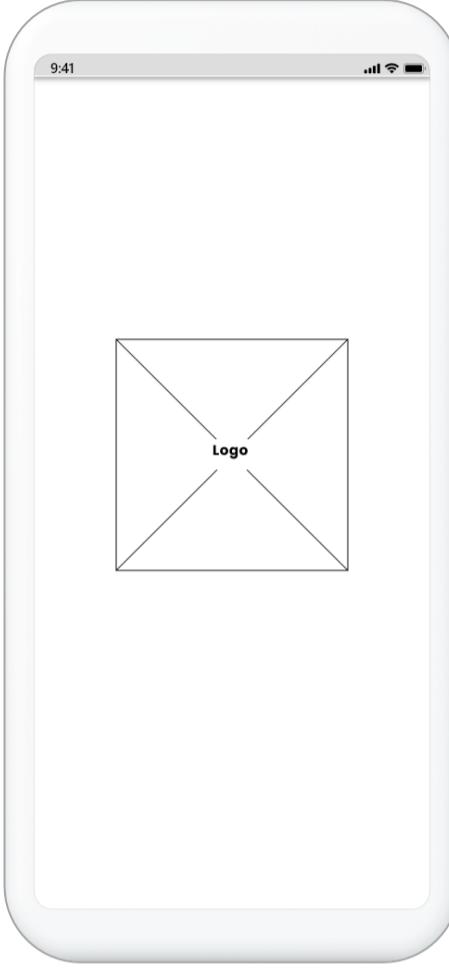
Single Category



Single View of a Cake

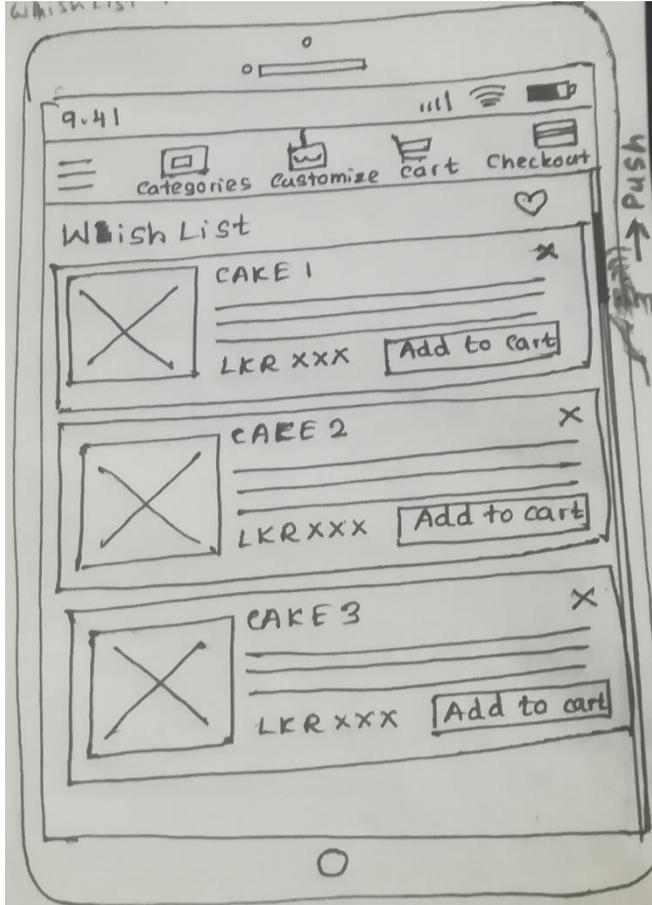
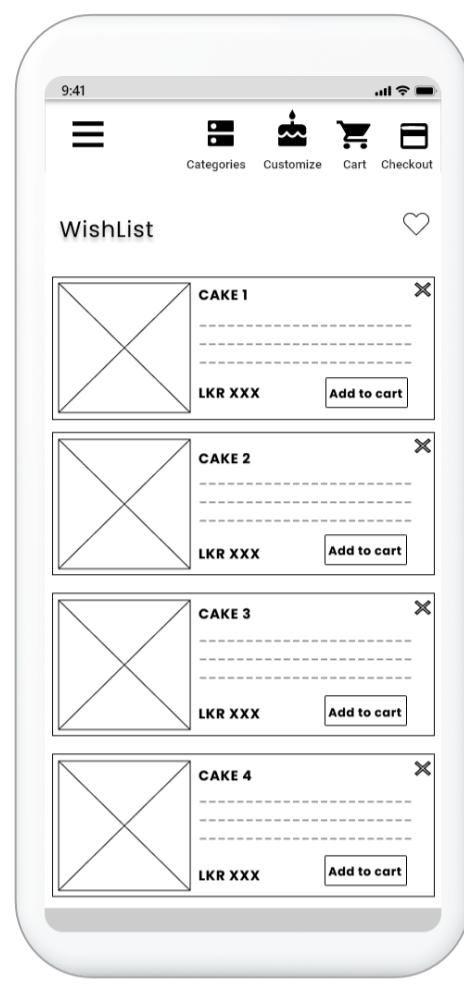
Interface 1 – Landing Page

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
	 A hand-drawn sketch of a smartphone screen. The screen displays a logo in the center, which is a square divided by a diagonal line from top-left to bottom-right, with the word "Logo" written in the center. The phone's status bar at the top shows the time as 9:41 and various icons. The home button is visible at the bottom.	 A digital wireframe of a smartphone screen. It features a large central square containing a logo, which is a square with a diagonal cross and the word "Logo" in the middle. The wireframe includes standard mobile interface elements like a top bar with a timestamp (9:41) and signal strength indicators.
<ul style="list-style-type: none">• There is no landing page• Add a loading screen to increase the usability of the app		

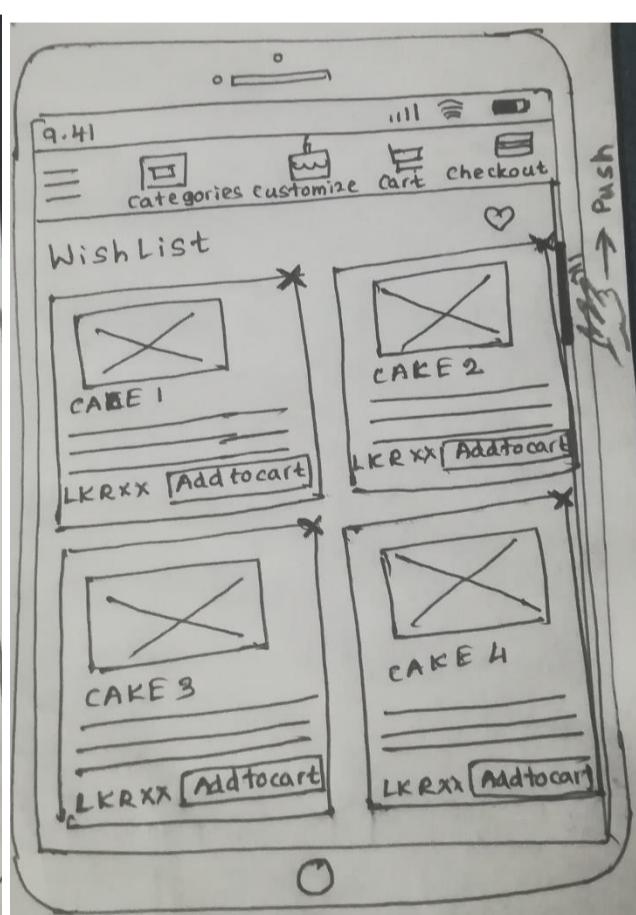
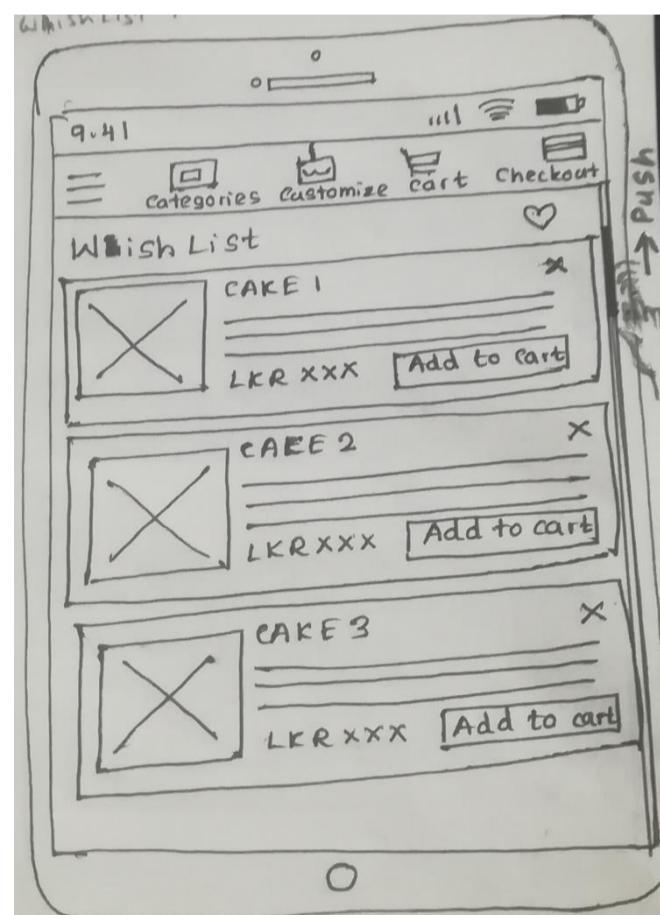
Interface 2 – Wishlist

Design Suggestions

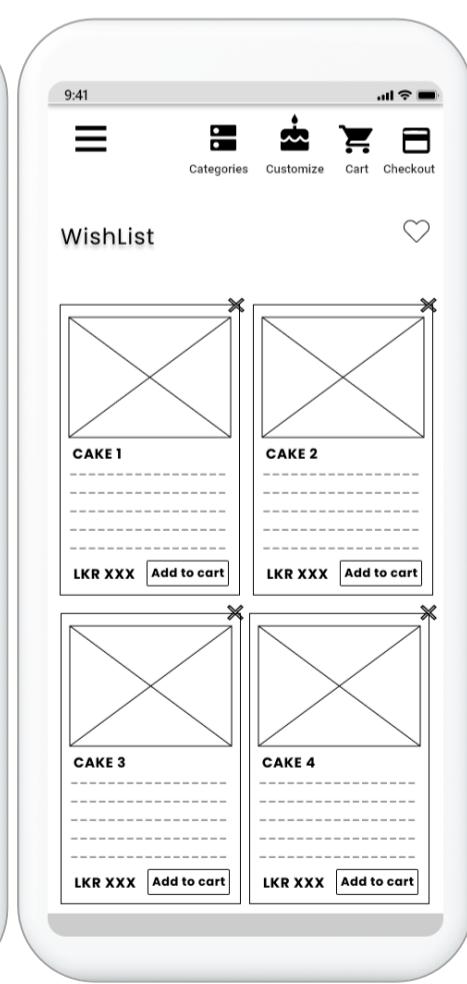
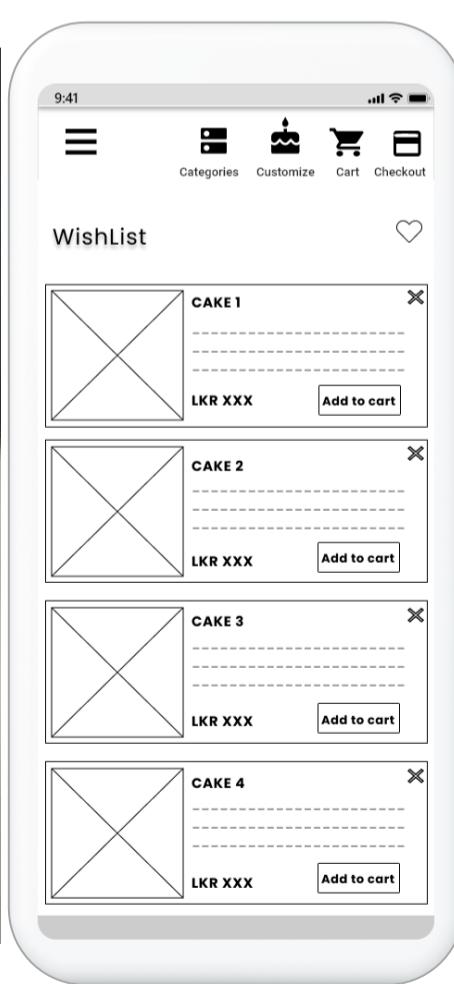
Screenshot of the GUI	Proposed sketch	Proposed wireframe
		

- There is no wishlist
- Add a wishlist to the app and users can add their desired items to wishlist to view them later

Sketches



Wireframes



Interface 3 – Shopping Cart

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe																																				
<p>The screenshot shows a shopping cart screen with a list of items. Each item has a delete icon, a quantity input field, and a summary row with weight, price, and total.</p> <table border="1"> <thead> <tr> <th>Product Name</th> <th>Quantity</th> <th>Unit Price</th> <th>Total</th> </tr> </thead> <tbody> <tr><td>Double Chocolate Cake</td><td>1</td><td>Rs 3,400.00</td><td>Rs 3,400.00</td></tr> <tr><td>Bounty Chocolate</td><td>1</td><td>Rs 3,750.00</td><td>Rs 3,750.00</td></tr> <tr><td>Red Velvet Cake</td><td>1</td><td>Rs 850.00</td><td>Rs 850.00</td></tr> <tr><td>Pineapple Cheese Cake</td><td>1</td><td>Rs 1,100.00</td><td>Rs 1,100.00</td></tr> <tr><td>Death By Chocolate</td><td>1</td><td>Rs 900.00</td><td>Rs 900.00</td></tr> <tr><td>Two Tier Cake</td><td>1</td><td>Rs 3,600.00</td><td>Rs 3,600.00</td></tr> <tr><td>Cappuccino Cake</td><td>1</td><td>Rs 800.00</td><td>Rs 800.00</td></tr> <tr><td>Irish Cheese Cake</td><td>2</td><td>Rs 1,100.00</td><td>Rs 2,200.00</td></tr> </tbody> </table>	Product Name	Quantity	Unit Price	Total	Double Chocolate Cake	1	Rs 3,400.00	Rs 3,400.00	Bounty Chocolate	1	Rs 3,750.00	Rs 3,750.00	Red Velvet Cake	1	Rs 850.00	Rs 850.00	Pineapple Cheese Cake	1	Rs 1,100.00	Rs 1,100.00	Death By Chocolate	1	Rs 900.00	Rs 900.00	Two Tier Cake	1	Rs 3,600.00	Rs 3,600.00	Cappuccino Cake	1	Rs 800.00	Rs 800.00	Irish Cheese Cake	2	Rs 1,100.00	Rs 2,200.00	<p>The sketch shows a shopping cart screen with three items: CAKE 1, CAKE 2, and CAKE 3. Each item has a delete icon, a quantity input field (e.g., -1 +), and a summary row with weight, price, and total. A hand-drawn arrow labeled 'Push' points to the right side of the screen.</p>	<p>The wireframe shows a shopping cart screen with a list of items. Each item has a delete icon, a quantity input field (e.g., -1 +), and a summary row with weight, price, and total. A 'Checkout' button is located at the bottom right.</p>
Product Name	Quantity	Unit Price	Total																																			
Double Chocolate Cake	1	Rs 3,400.00	Rs 3,400.00																																			
Bounty Chocolate	1	Rs 3,750.00	Rs 3,750.00																																			
Red Velvet Cake	1	Rs 850.00	Rs 850.00																																			
Pineapple Cheese Cake	1	Rs 1,100.00	Rs 1,100.00																																			
Death By Chocolate	1	Rs 900.00	Rs 900.00																																			
Two Tier Cake	1	Rs 3,600.00	Rs 3,600.00																																			
Cappuccino Cake	1	Rs 800.00	Rs 800.00																																			
Irish Cheese Cake	2	Rs 1,100.00	Rs 2,200.00																																			
Failure points of the UI		<p>Suggested solution</p> <ul style="list-style-type: none"> • Add a clear image to recognize the added item to the cart • Increase the font size • Add + and – buttons to change the quantity easily. 																																				

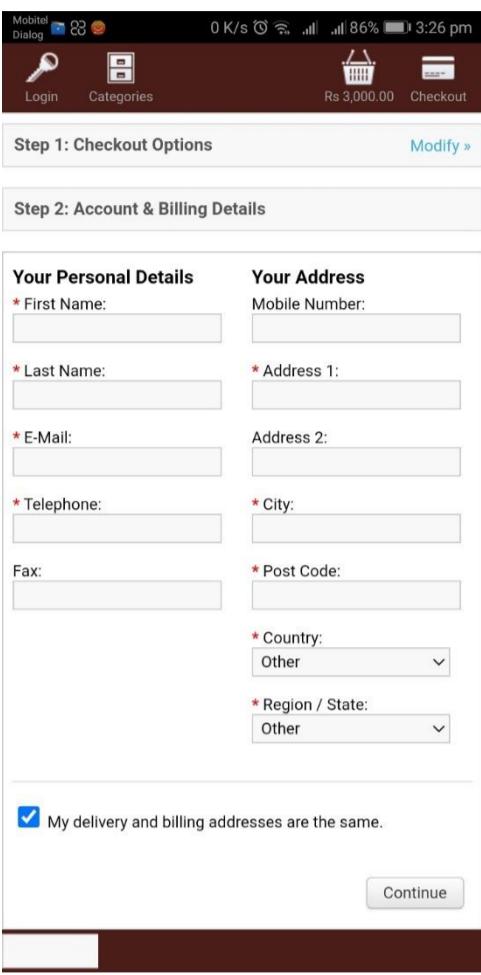
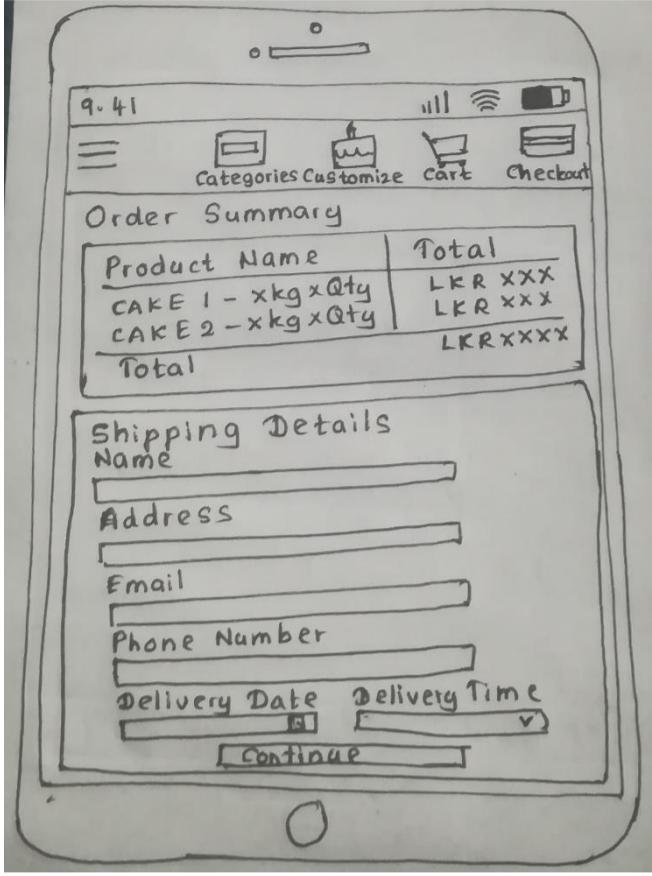
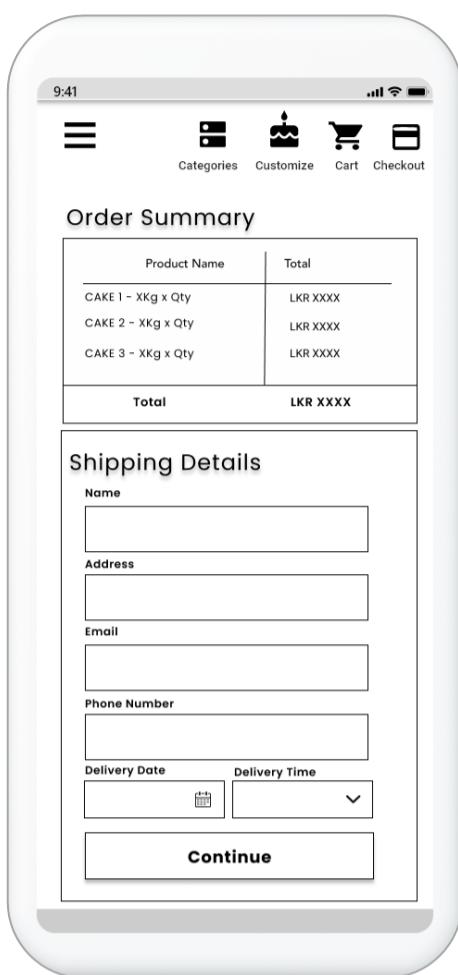
Sketches

Wireframes



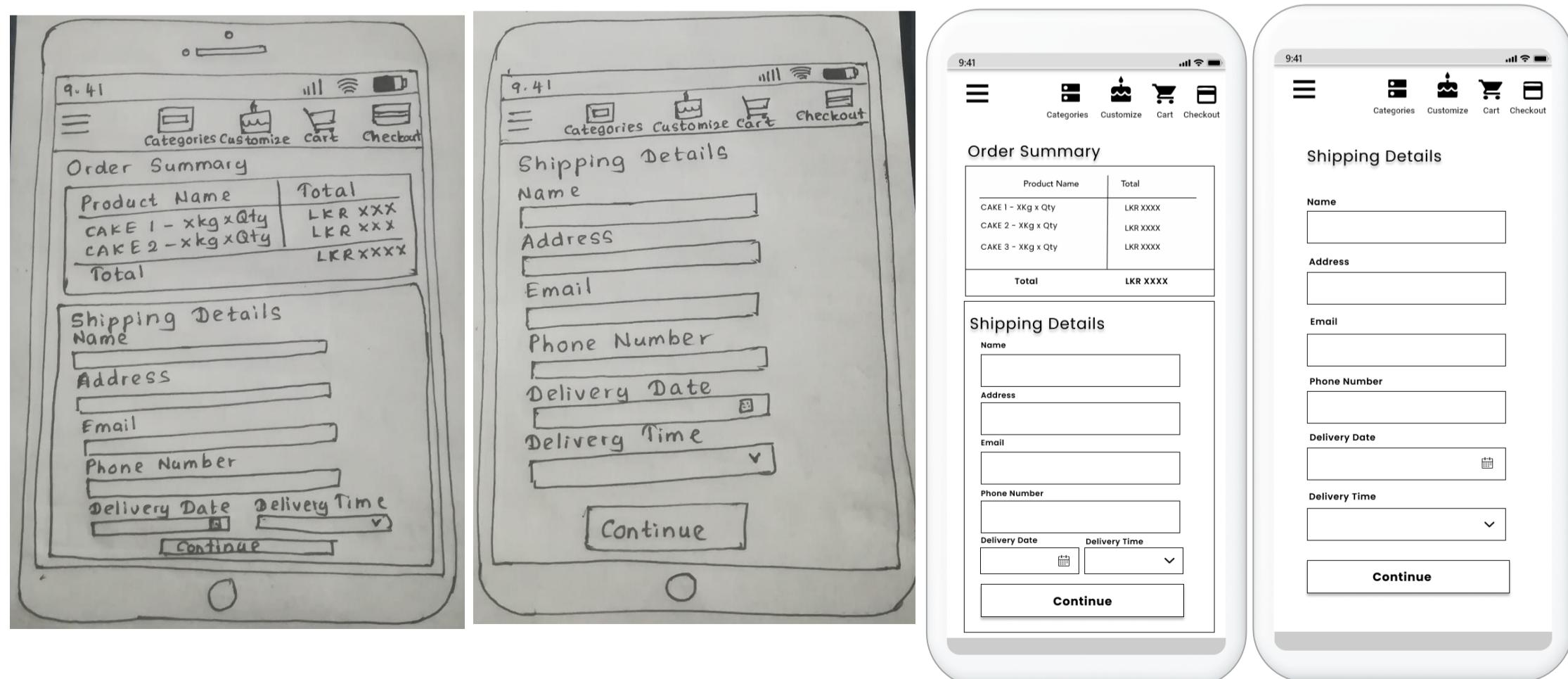
Interface 4 – Payment - Shipping Details

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
		
Failure points of the UI <ul style="list-style-type: none"> No clear order summary before making payments Six steps to make the payments Inputs fields are too small Asking much information to fill out 	Suggested solutions <ul style="list-style-type: none"> Add a clear order summary to recognize the items which are going to be buy Only two steps for payment Increase the size of the input fields Ask to fill only required information 	

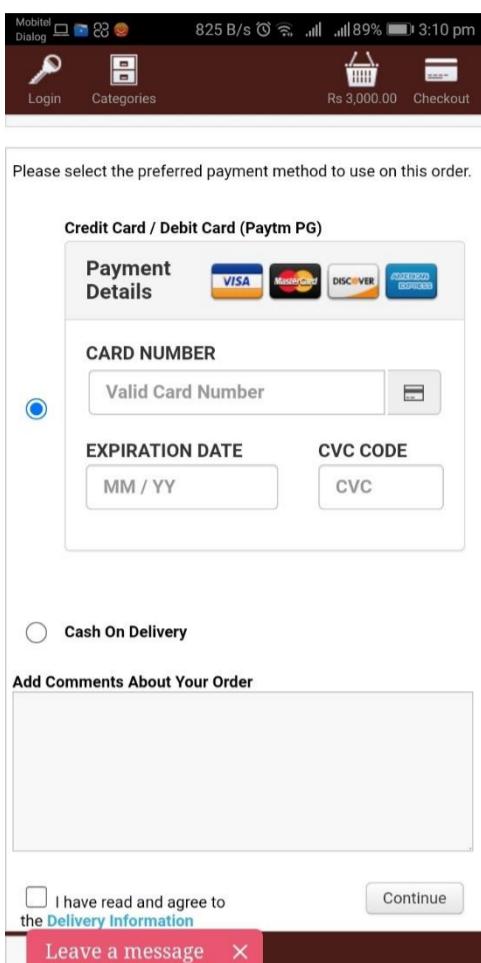
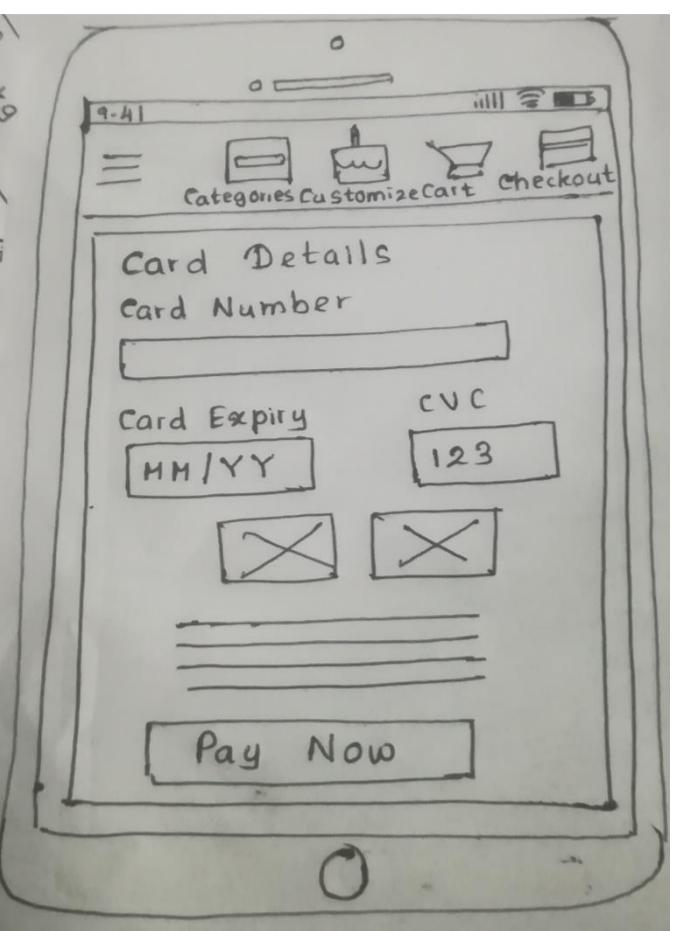
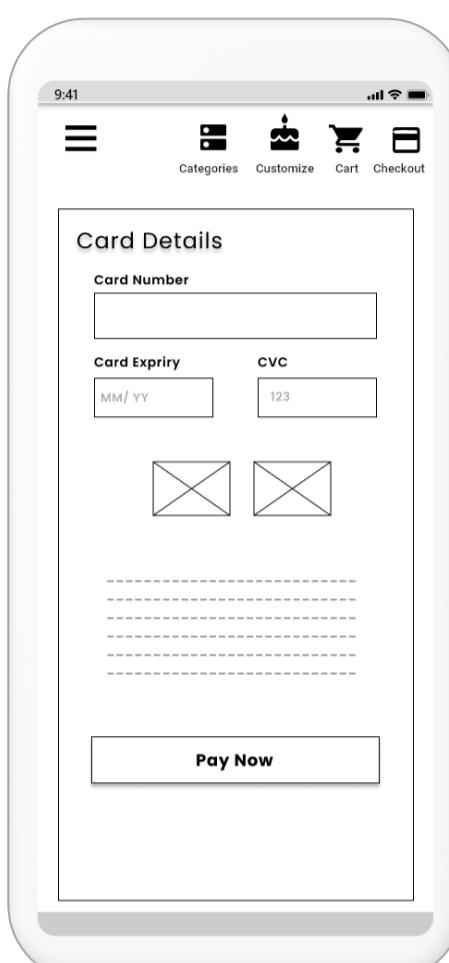
Sketches

Wireframe



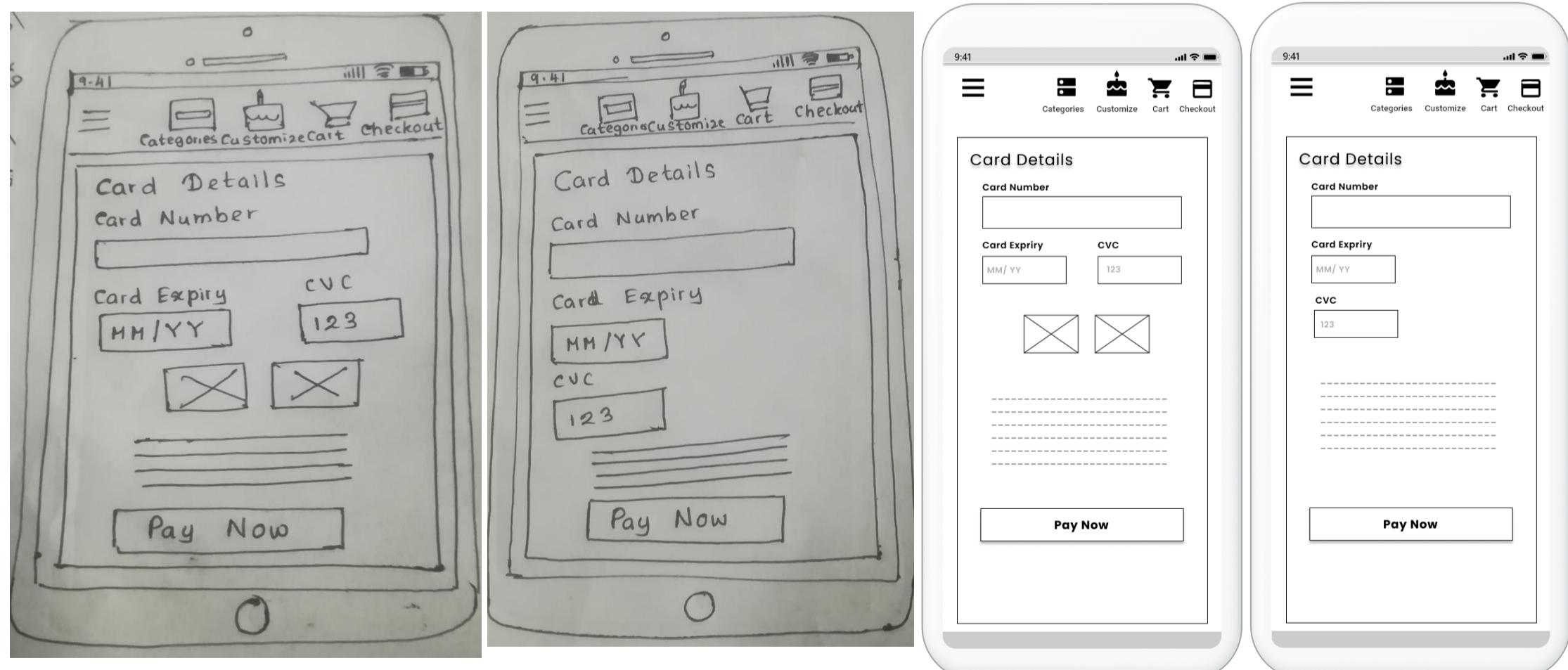
Interface 5 – Payment – Card Details

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
 <p>Please select the preferred payment method to use on this order.</p> <p>Credit Card / Debit Card (Paytm PG)</p> <p>Payment Details: VISA, MasterCard, DISCOVER, AMEX, CREDIT CARD</p> <p>CARD NUMBER: Valid Card Number</p> <p>EXPIRATION DATE: MM / YY</p> <p>CVC CODE: CVC</p> <p><input checked="" type="radio"/> Cash On Delivery</p> <p>Add Comments About Your Order</p> <p><input type="checkbox"/> I have read and agree to the Delivery Information</p> <p>Leave a message <input type="button" value="X"/></p>		
<p>Failure points of the UI</p> <ul style="list-style-type: none"> • Six steps to make the payments • Inputs fields are too small • Asking much information to fill out 	<p>Suggested solutions</p> <ul style="list-style-type: none"> • Only two steps for payment • Increase the size of the input fields • Ask to fill only required information 	

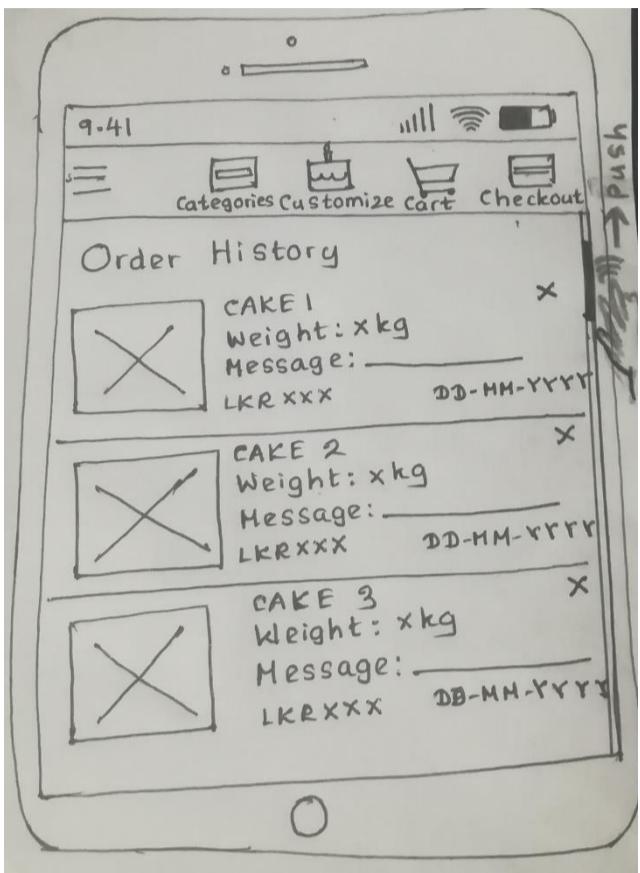
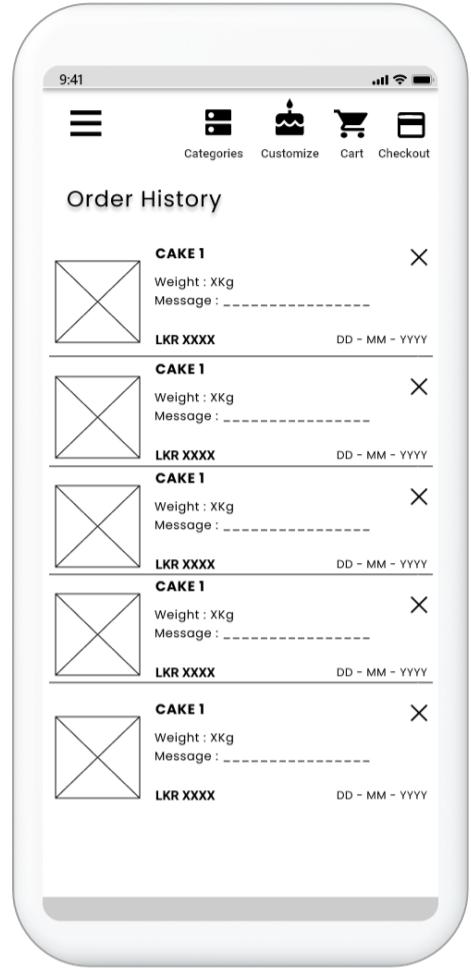
Sketches

Wireframe



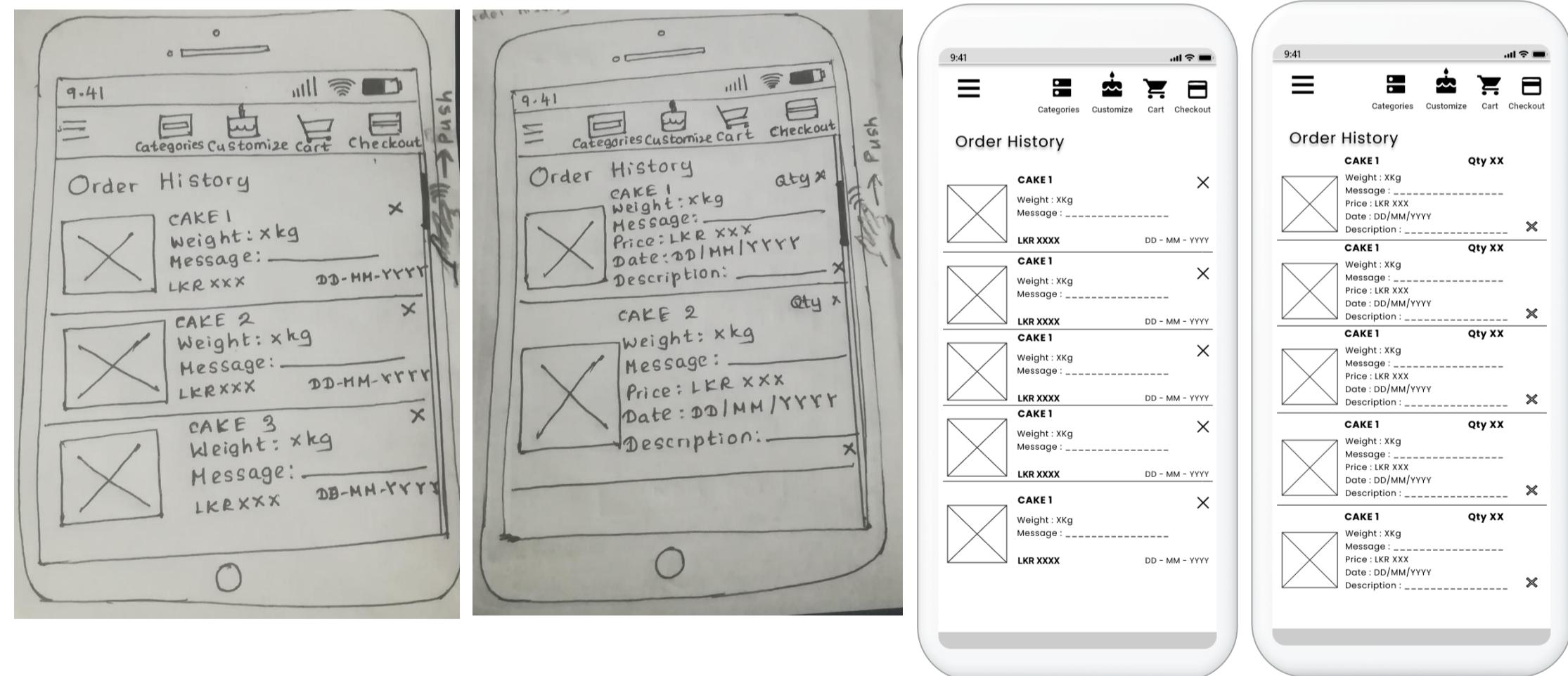
Interface 6 – Order History

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
		
<ul style="list-style-type: none"> There is no order history in the app 	<ul style="list-style-type: none"> Add a order history to view ordered items 	

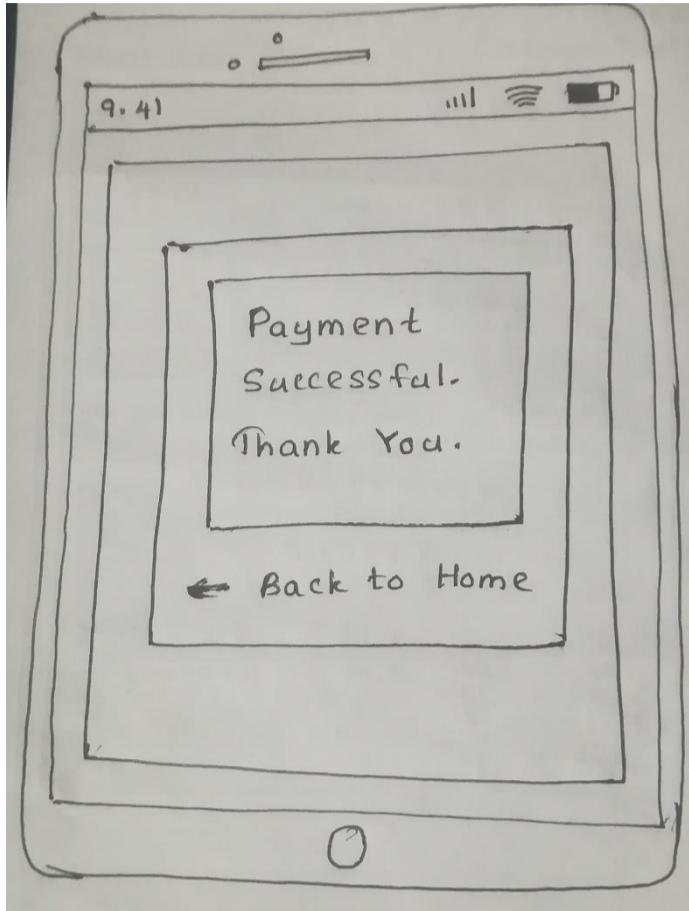
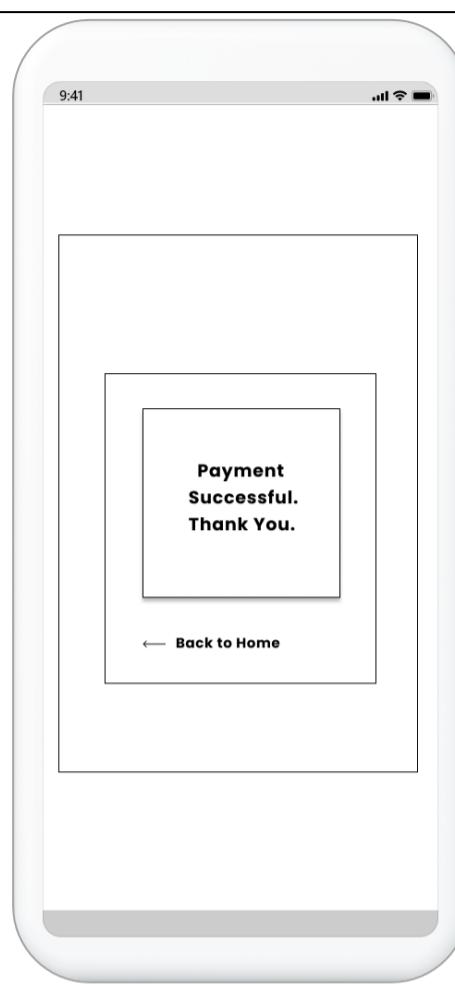
Sketches

Wireframes

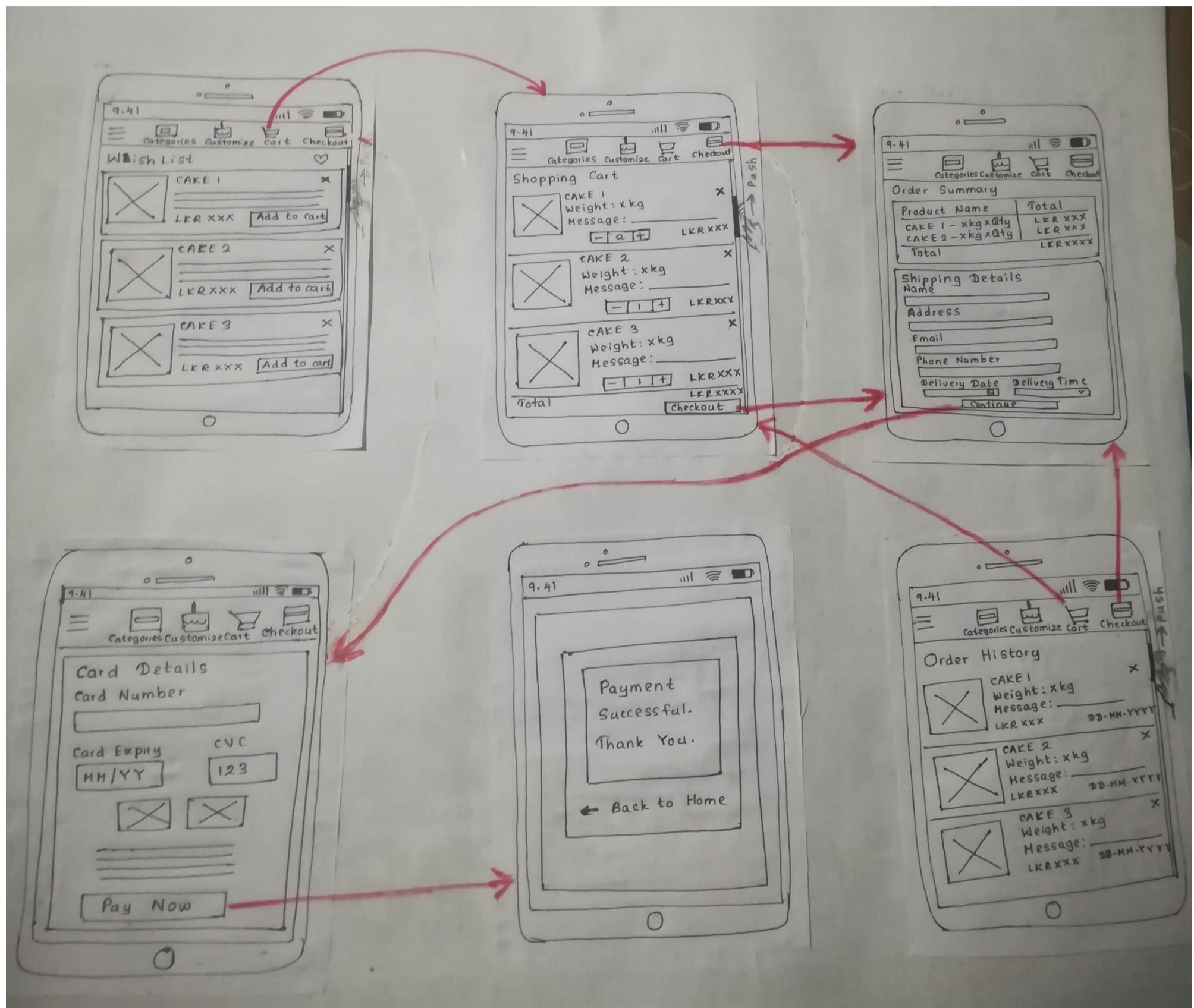


Interface 7 – Payment Success

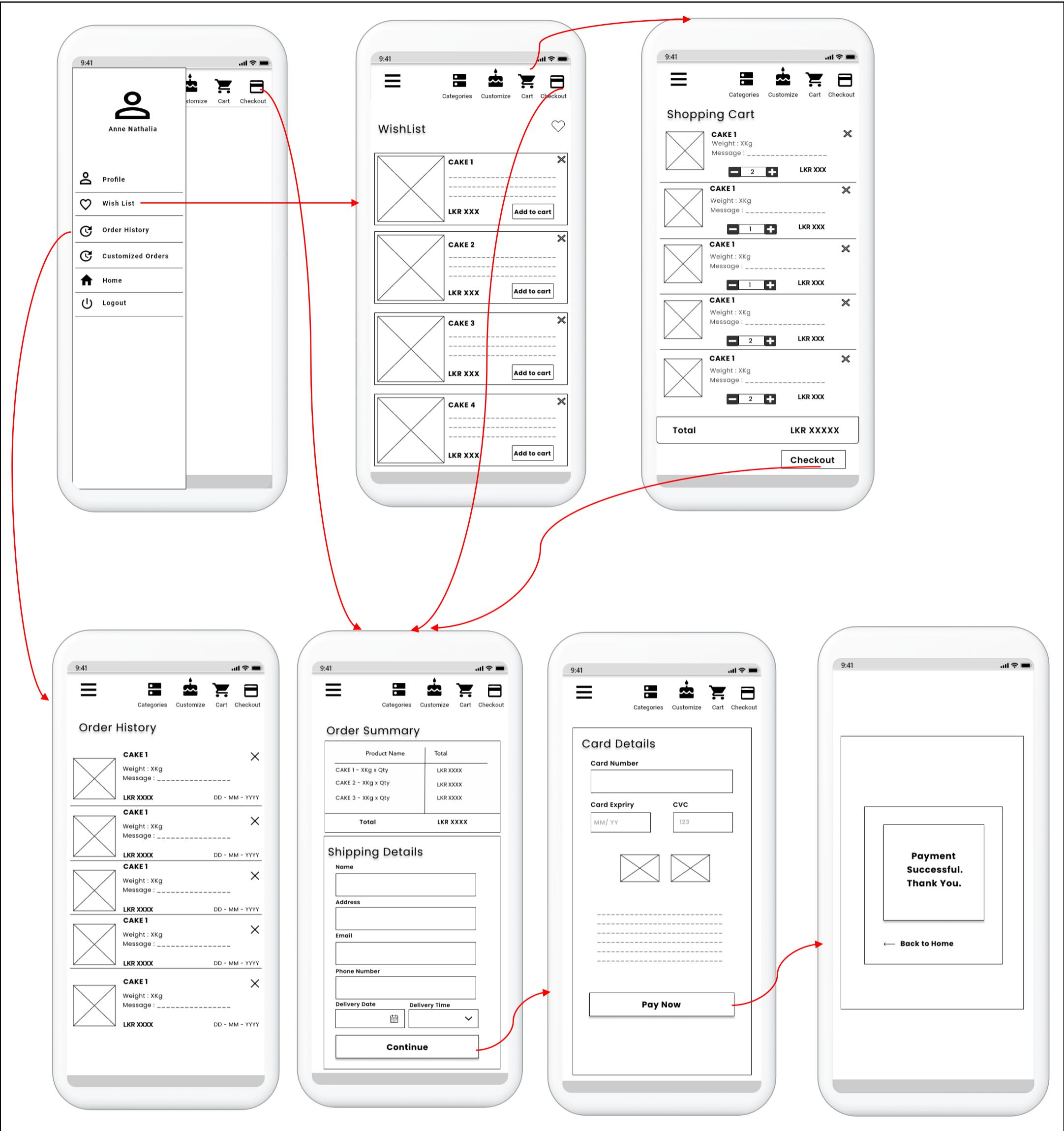
Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
	 A hand-drawn sketch of a smartphone screen. The screen displays a message box with the text "Payment Successful." and "Thank You.". Below the message box is a button labeled "Back to Home" with a left arrow icon. The phone has a speaker at the top, signal bars, and battery status at the top edge. The home button is at the bottom.	 A digital wireframe of a smartphone screen. It features a large white rectangular area at the top. In the center is a smaller white rectangular message box containing the text "Payment Successful." and "Thank You.". At the bottom is a button labeled "Back to Home" with a left arrow icon. The wireframe includes a status bar at the top with the time "9:41" and icons for signal, Wi-Fi, and battery. The home button is at the bottom.
<ul style="list-style-type: none">• There is no payment successful page• Add a message to notify the user that their payment was successful.• User can go to the home page easily by clicking on Back to Home button		

Connection Between UIs



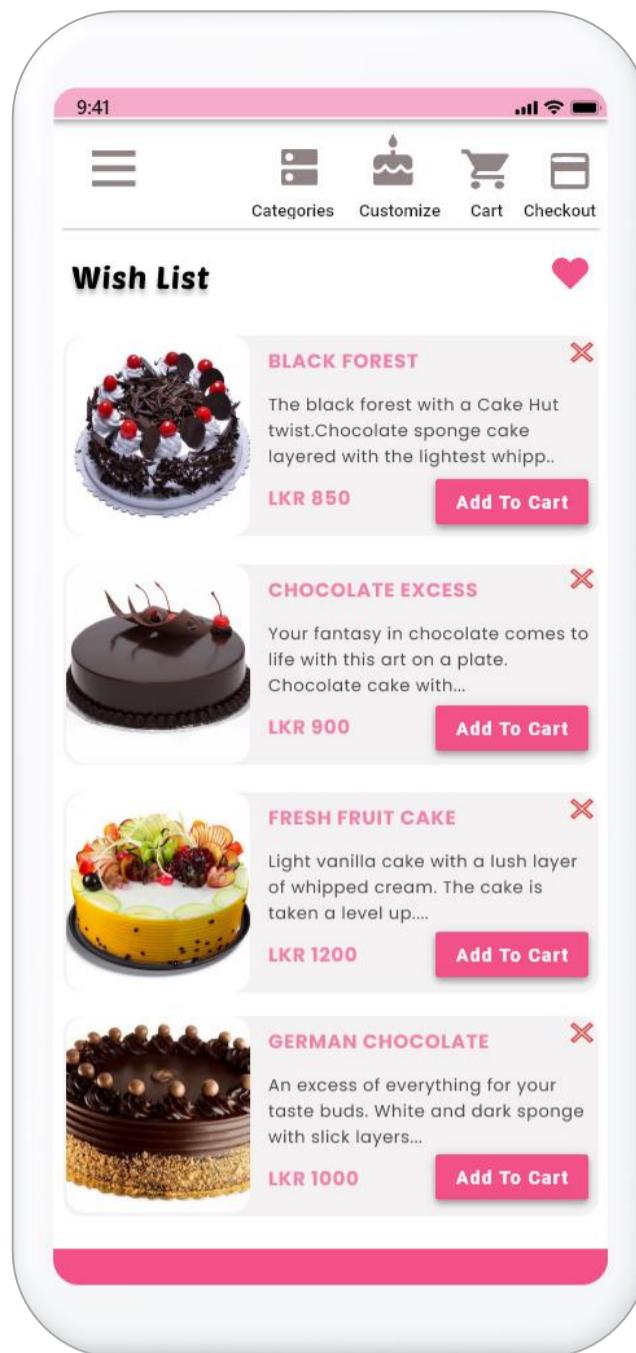
Connection Between UIs



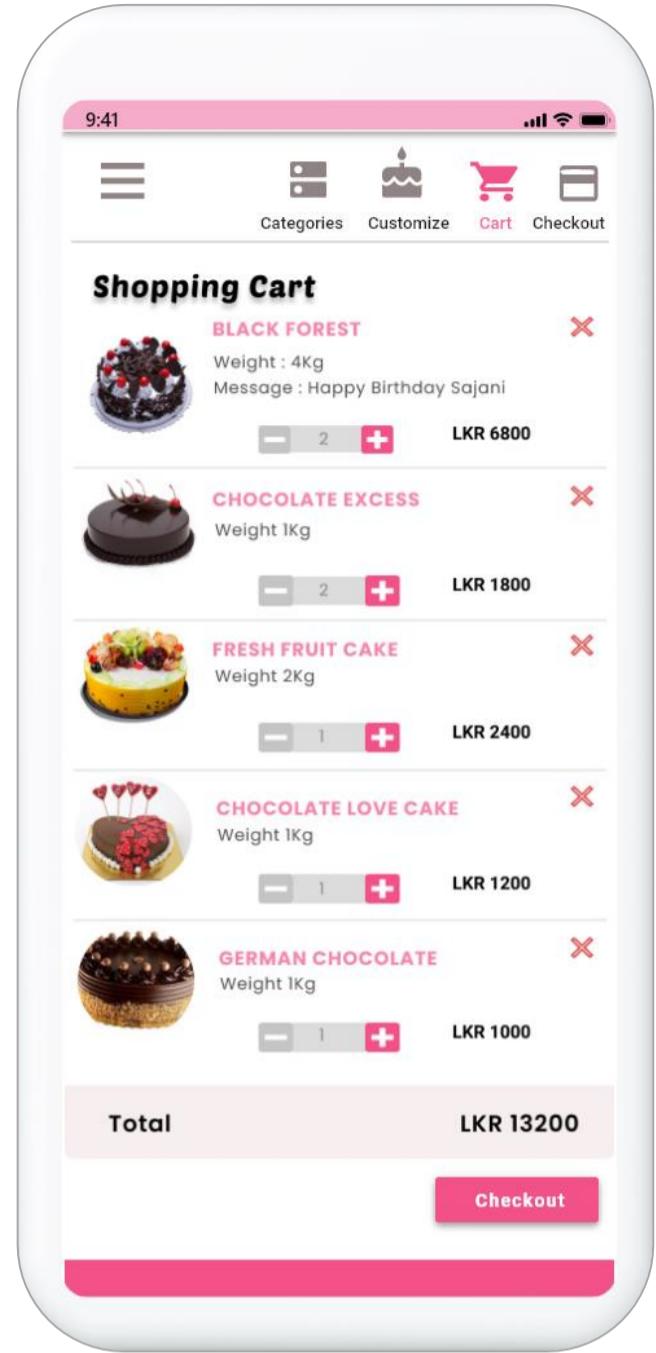
Prototype Version 1



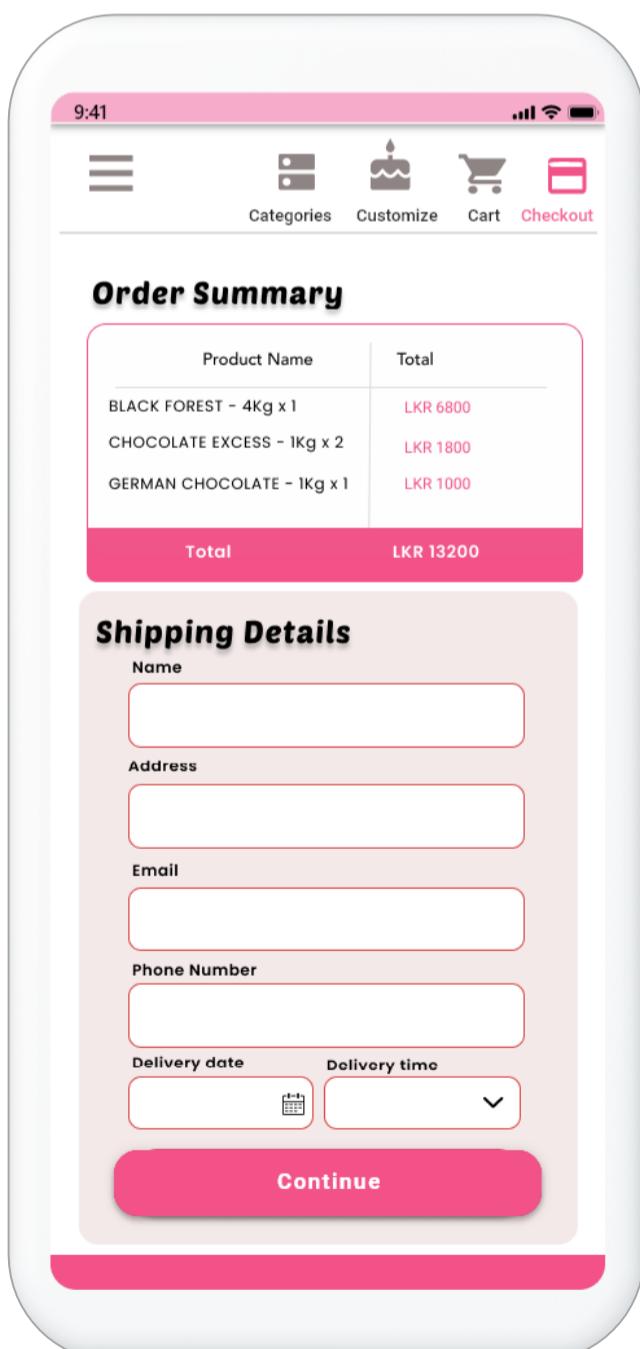
Landing Page



Wishlist



Shopping Cart



Order Summary

Product Name	Total
BLACK FOREST - 4Kg x 1	LKR 6800
CHOCOLATE EXCESS - 1Kg x 2	LKR 1800
GERMAN CHOCOLATE - 1Kg x 1	LKR 1000

Total LKR 13200

Shipping Details

Name

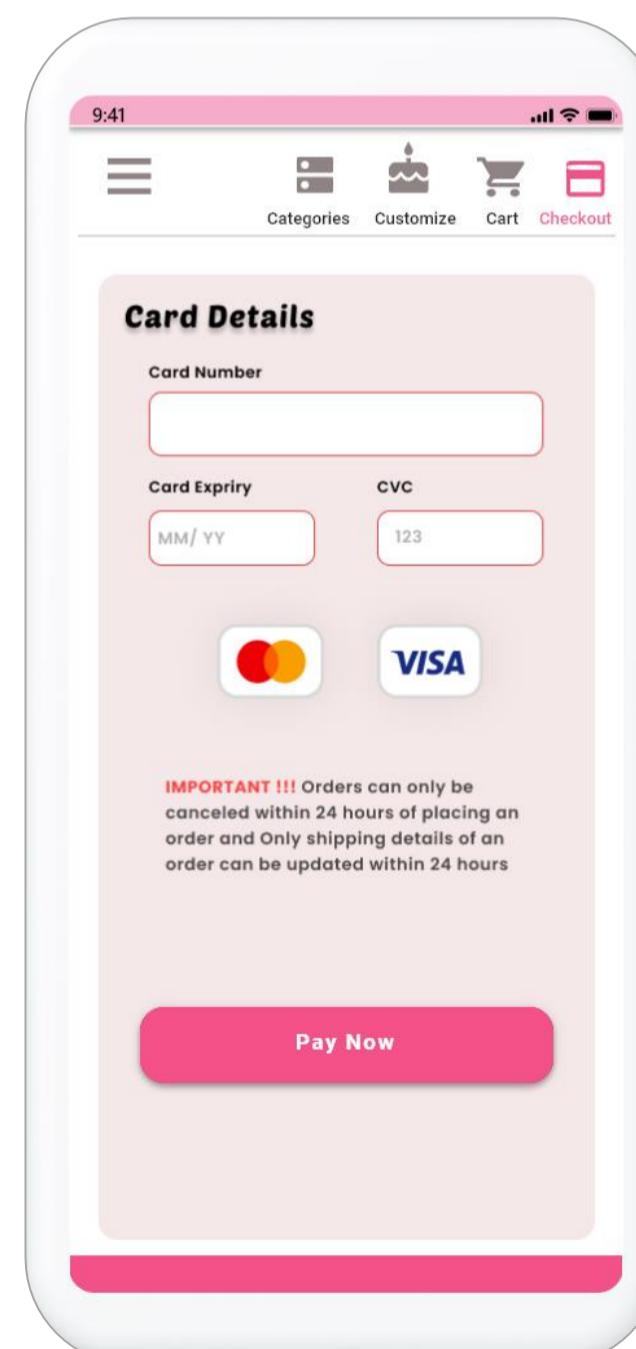
Address

Email

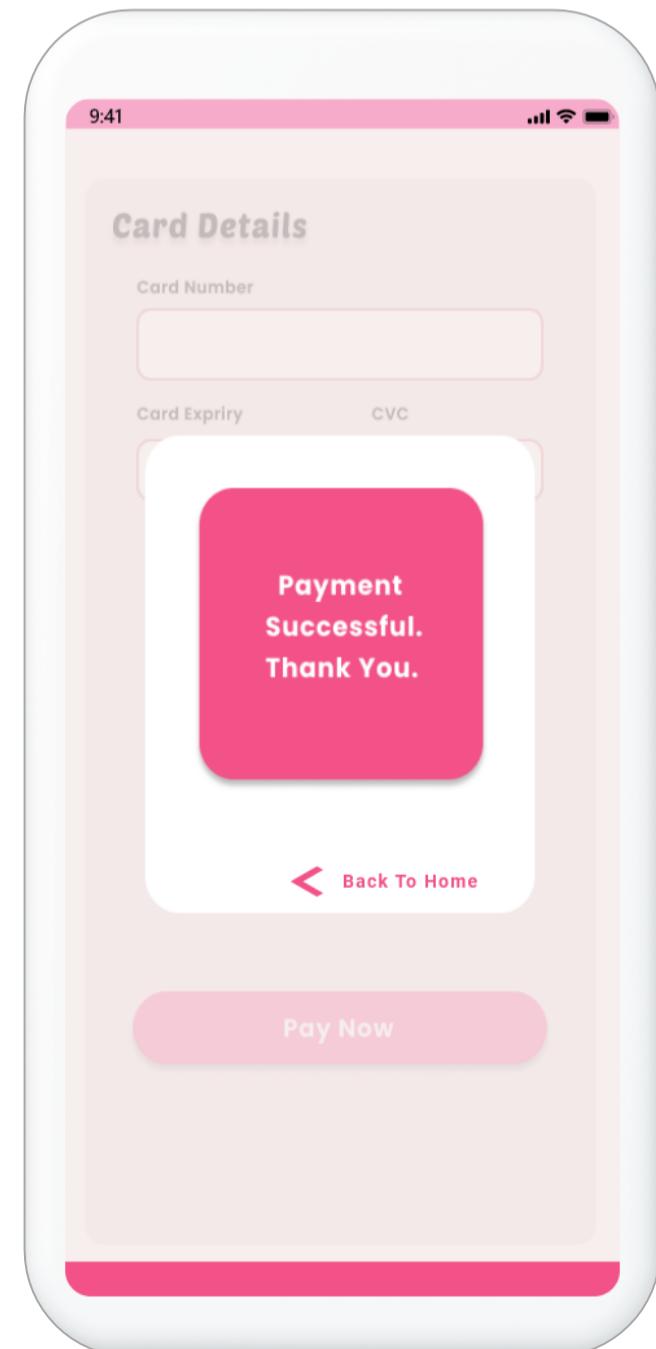
Phone Number

Delivery date Delivery time

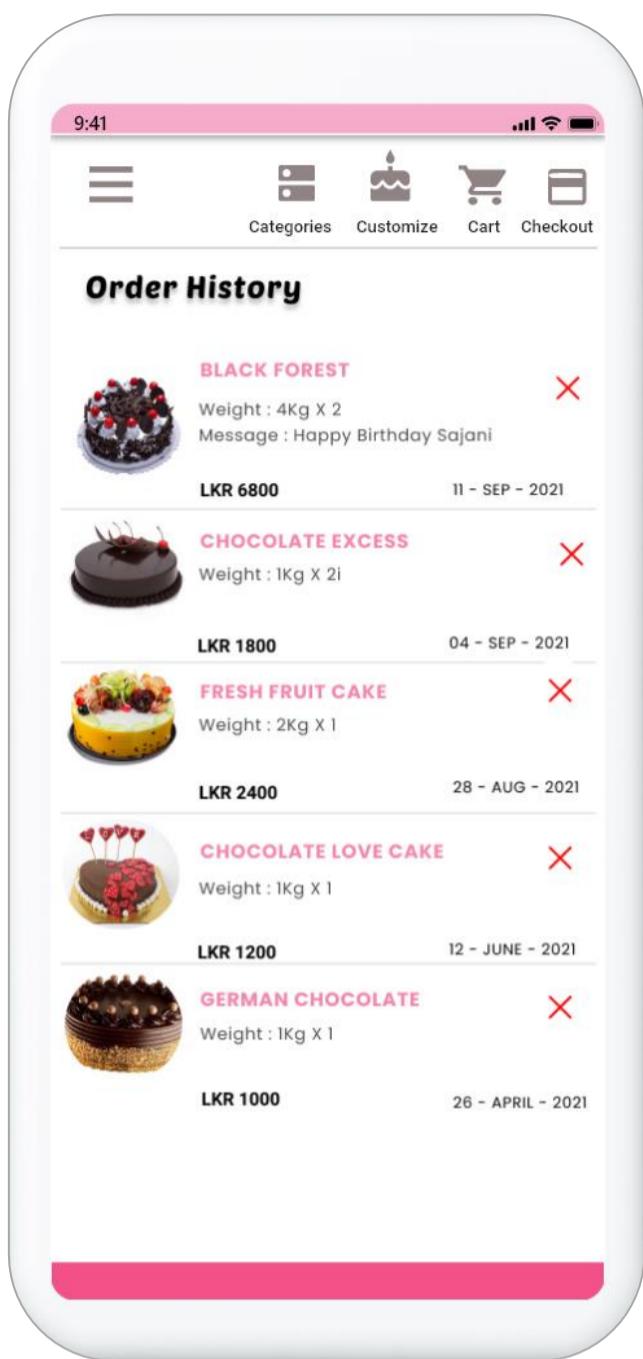
Payment – Shipping Details



Payment – Card Details



Payment Successful

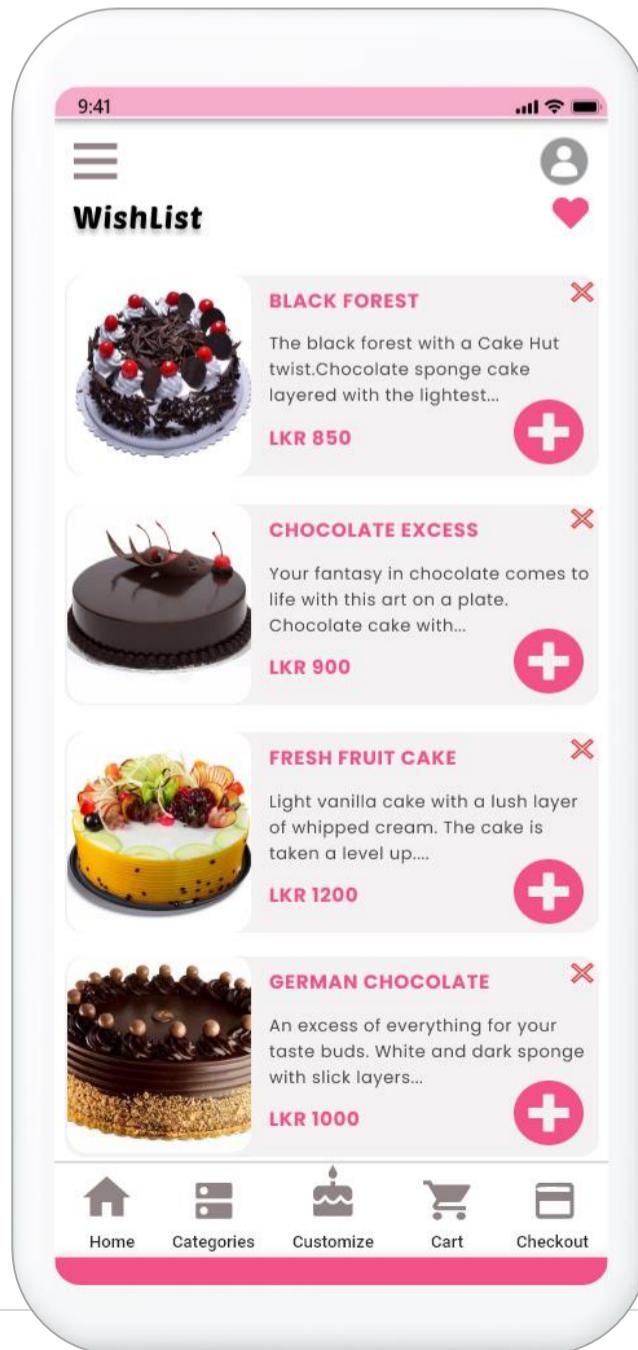


Order History

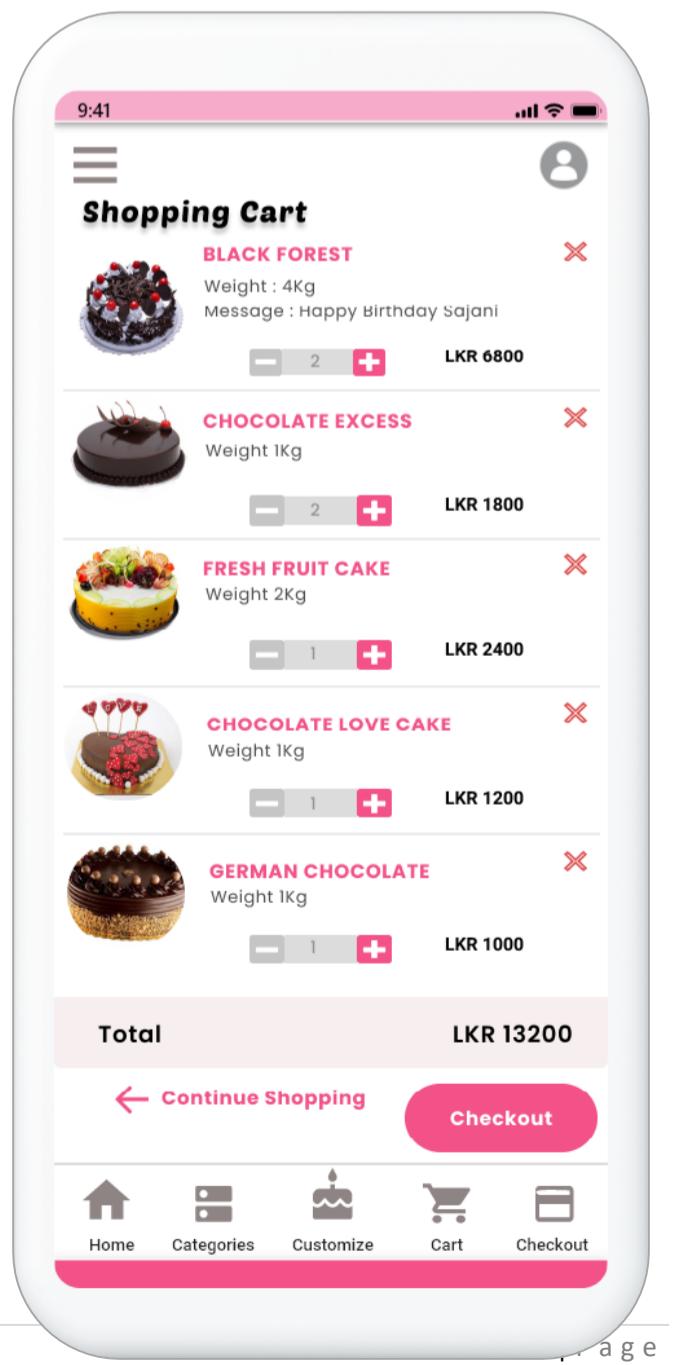
Prototype Version 2



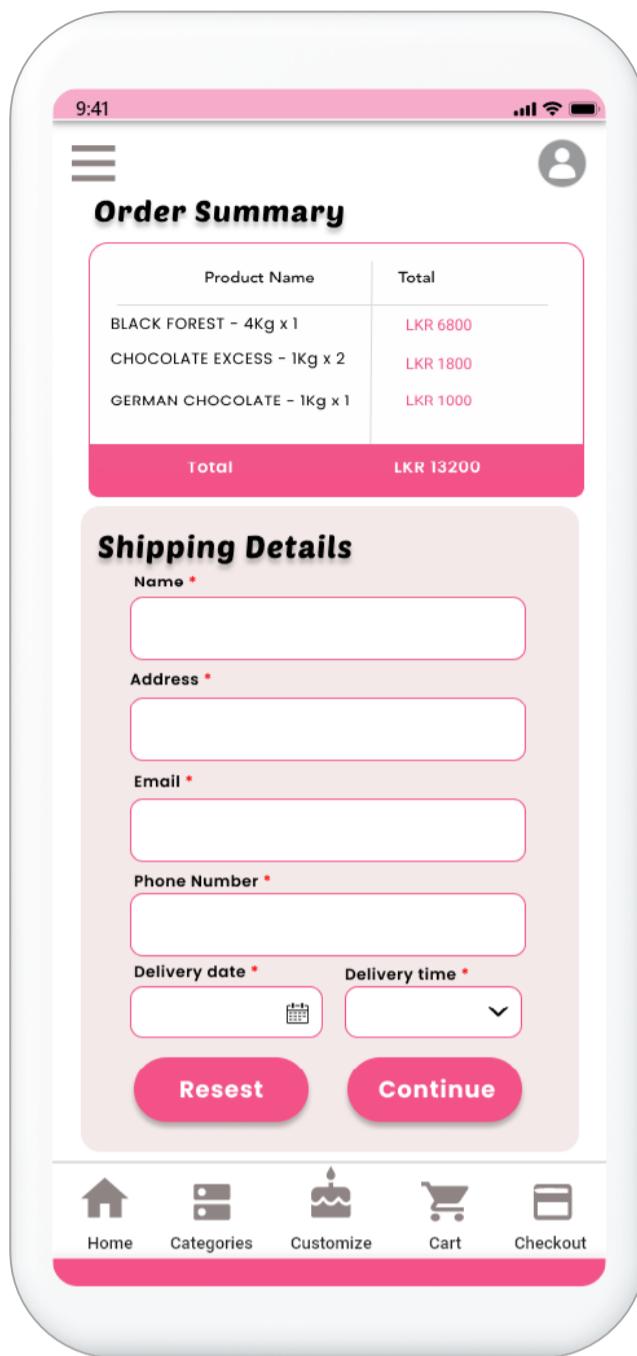
Landing Page



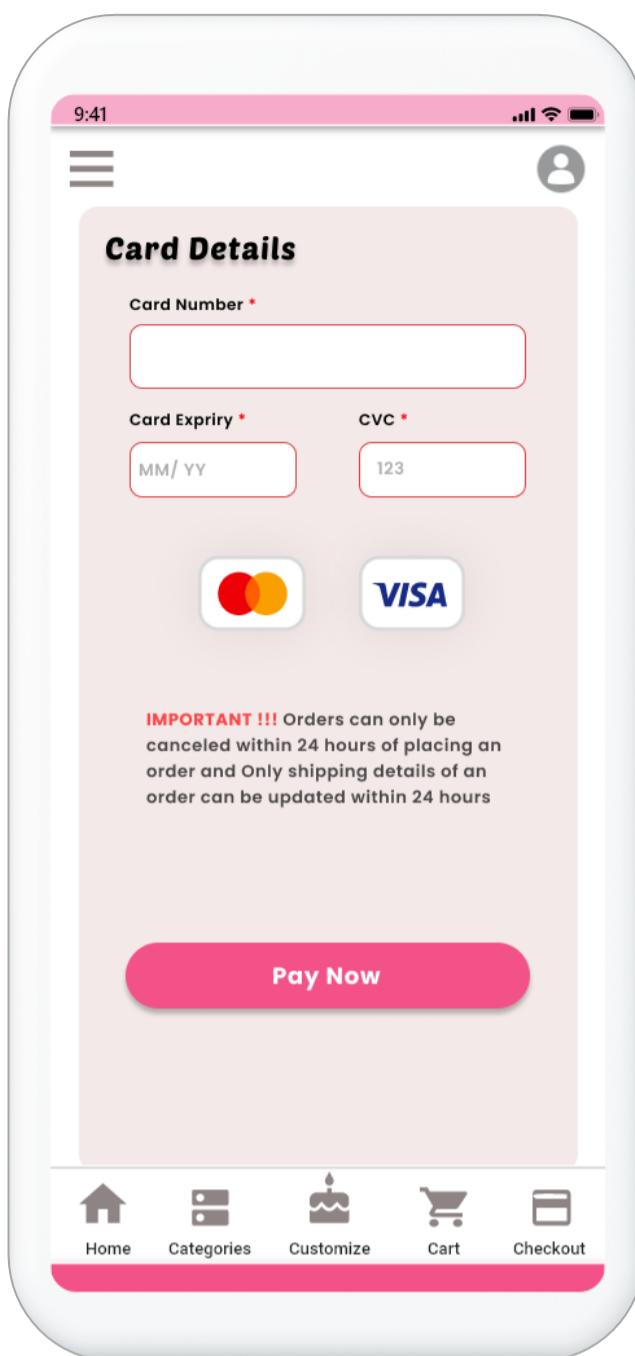
Wishlist



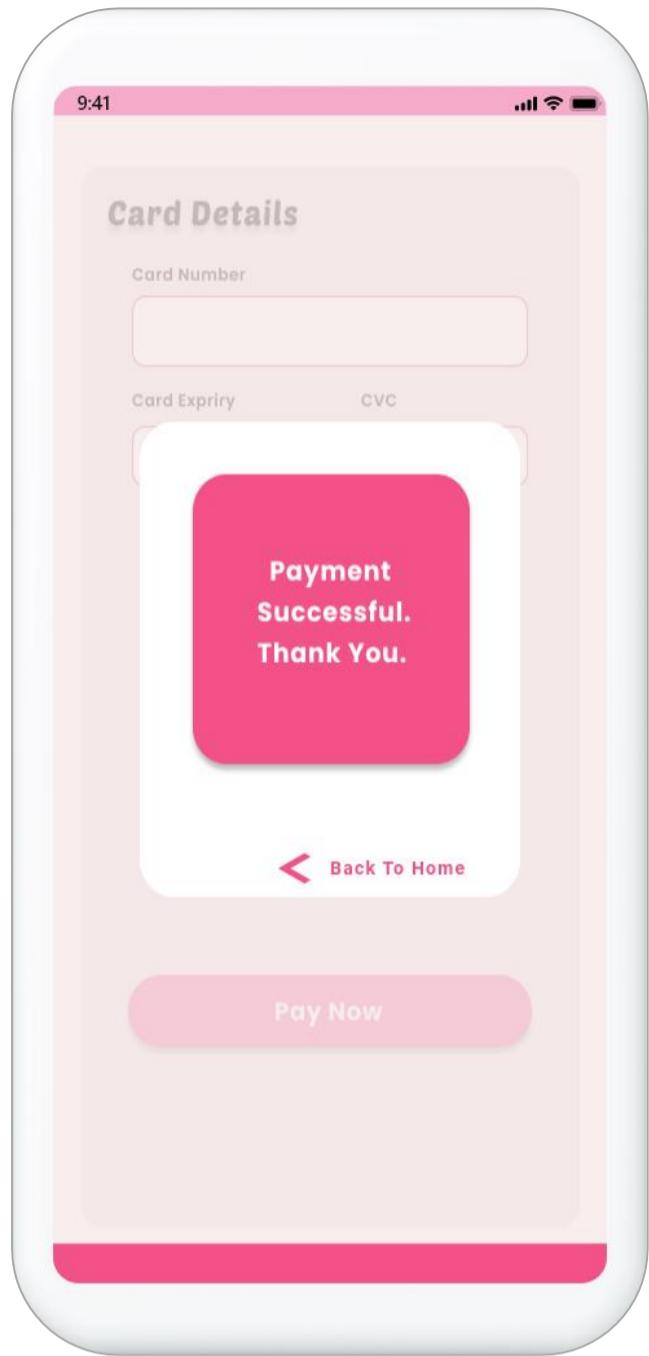
Shopping Cart



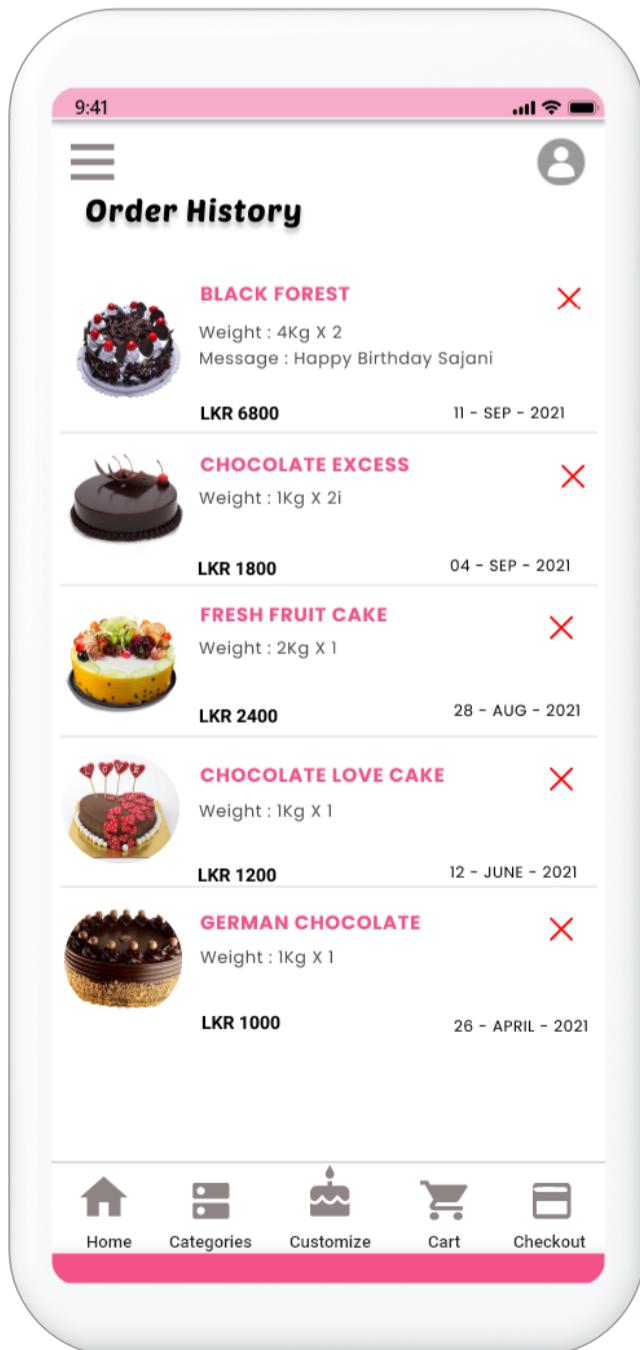
Payment – Shipping Details



Payment – Card Details



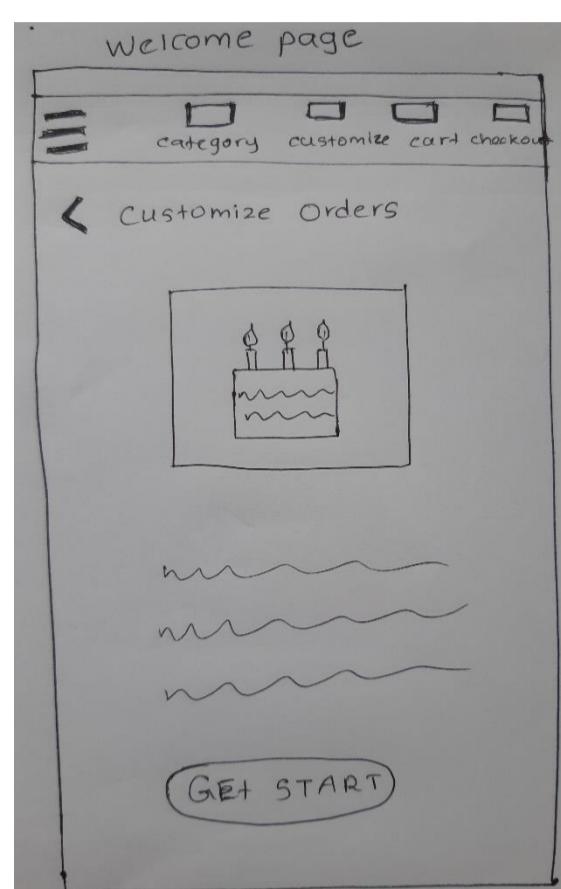
Payment Successful



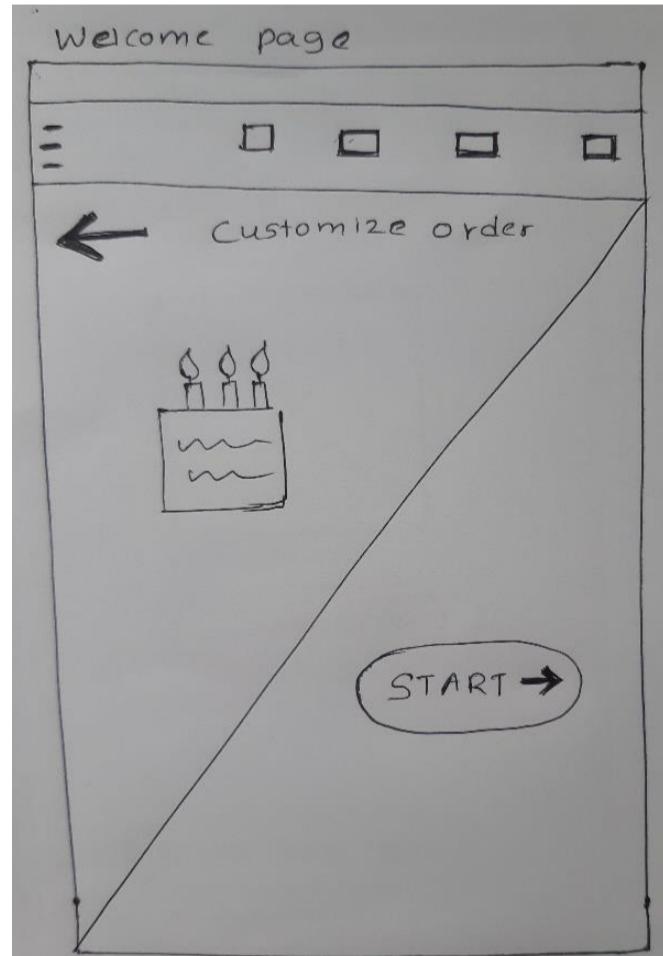
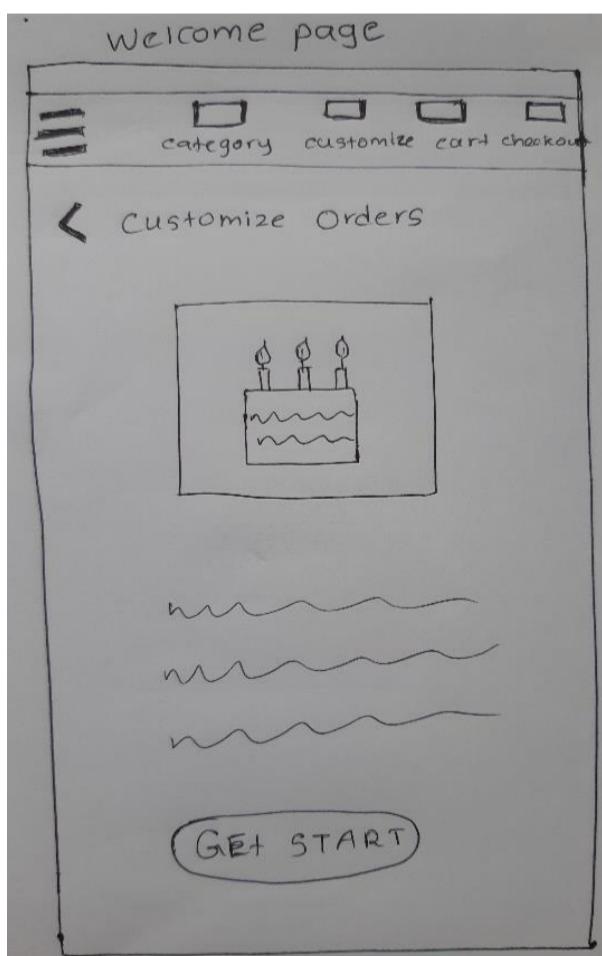
Order History

Interface 1 – Welcome Page – Customized Cake

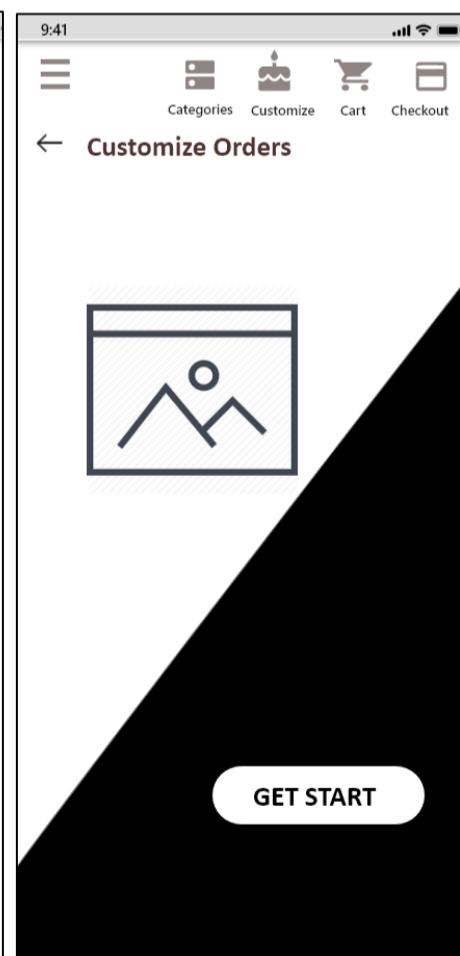
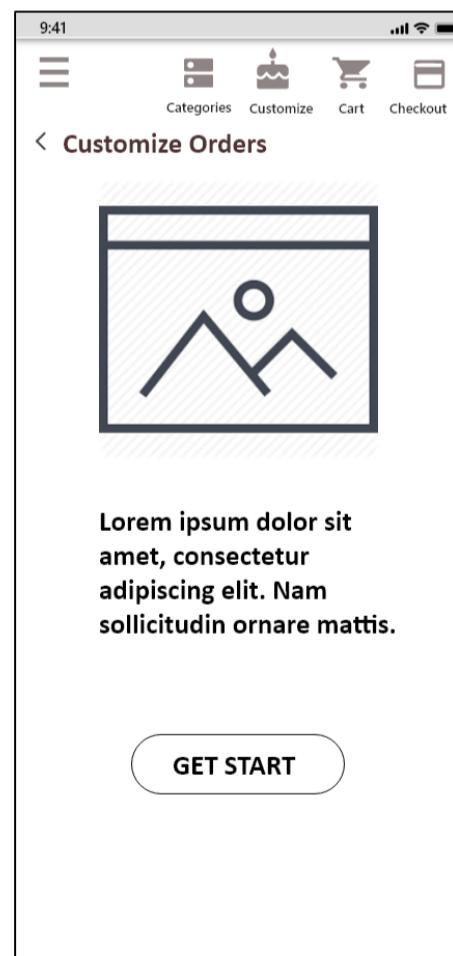
Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
		
<p>Failure points of the UI:</p> <ul style="list-style-type: none"> • There is no customize cake function 	<p>Suggested solutions:</p> <ul style="list-style-type: none"> • According to user feedback they need to get a feature for Customize their order 	

Sketches



Wireframes



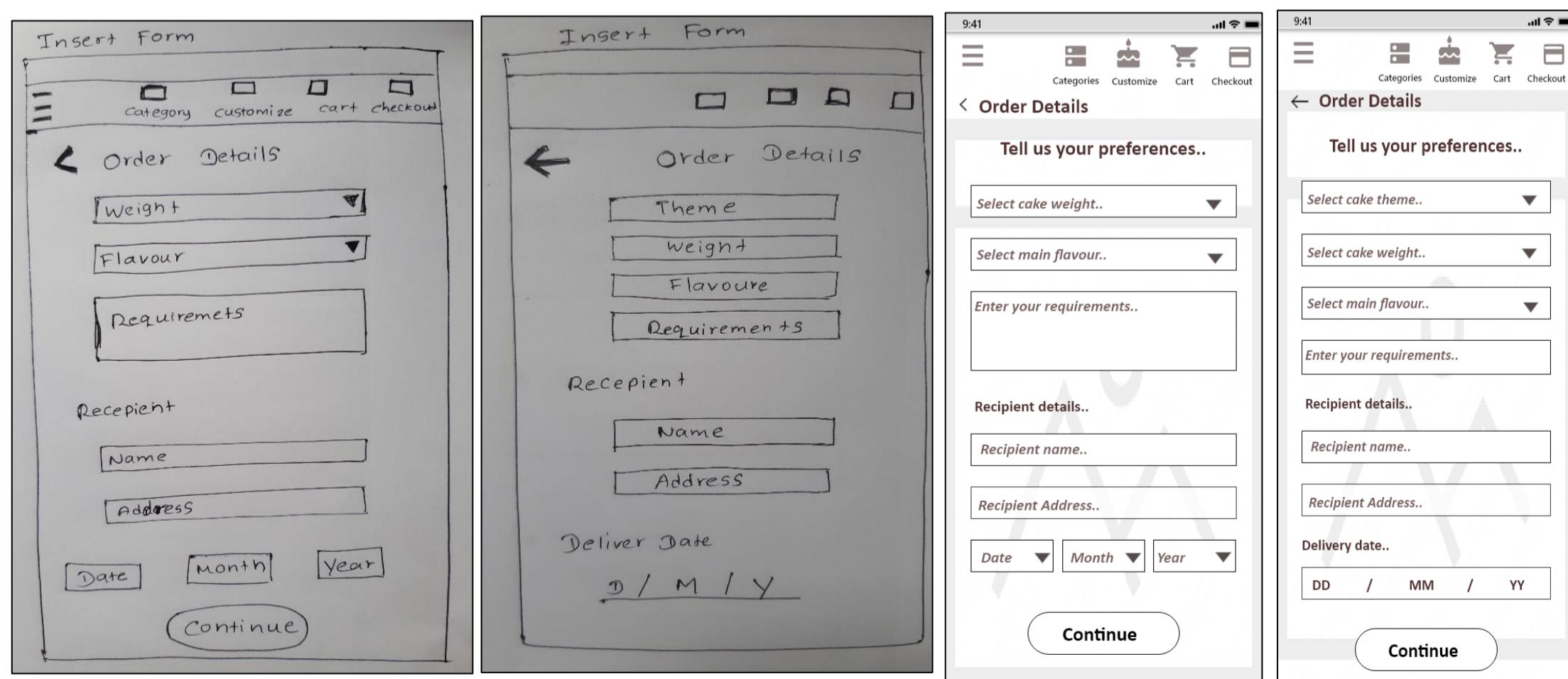
Interface 2 – Place Customized Cake Order

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
<p>Failure points of the UI:</p> <ul style="list-style-type: none"> There is no customize cake function but fixed failure of their general form designs which is form fields are very small 	<p>Suggested solutions:</p> <ul style="list-style-type: none"> According to user feedback they need to get a feature for customize their order. And form fields should be in appropriate size 	

Sketches

Wireframes

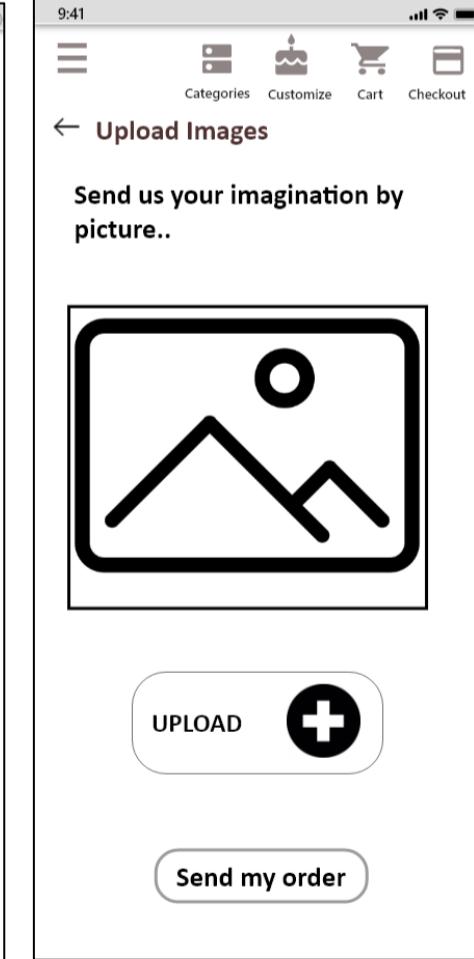
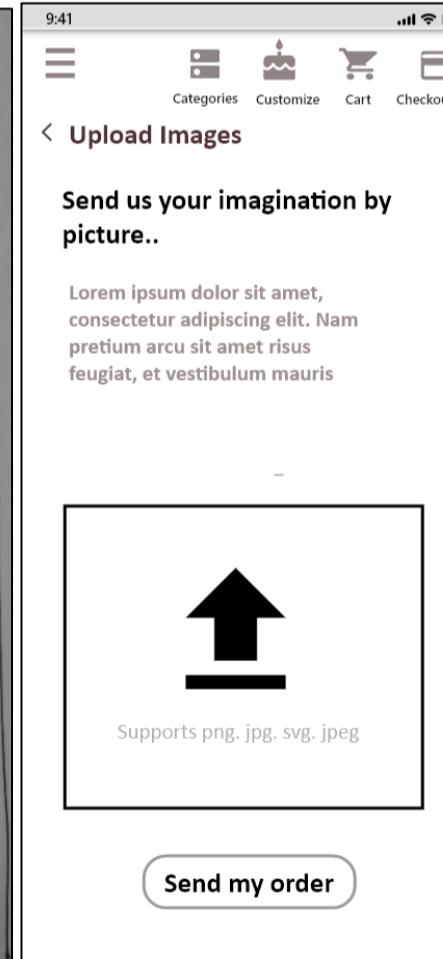
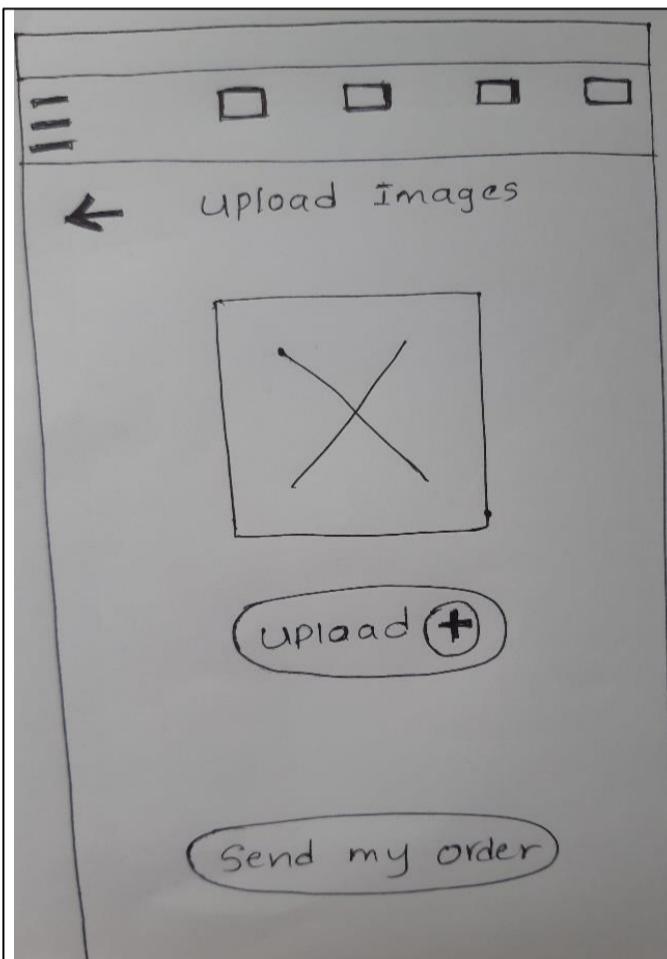
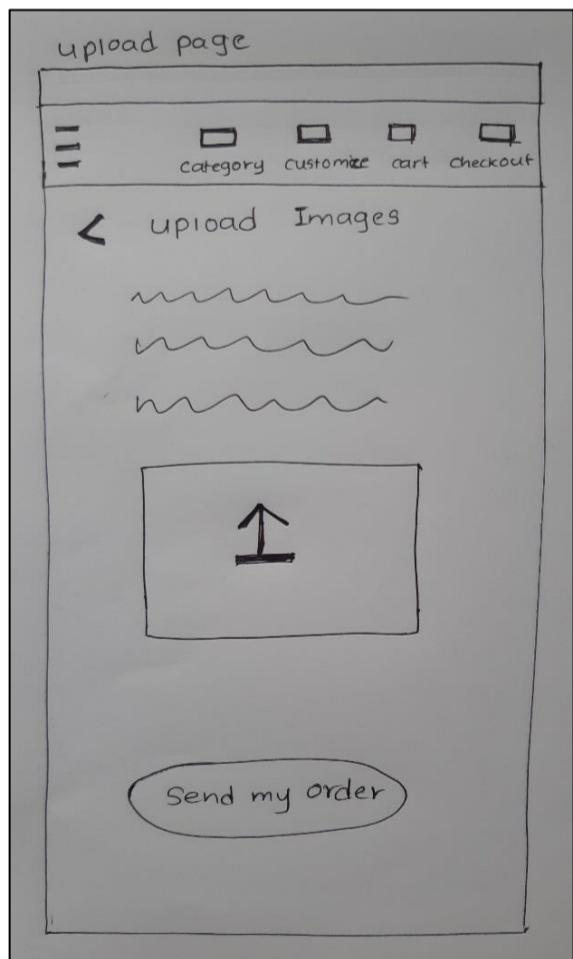


Interface 3 – Place Customized Cake Order – Upload Image

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
<p>Failure points of the UI:</p> <ul style="list-style-type: none"> There is no customize cake function but designed by fixing failure of their general interfaces which related to usage of faded colors small font size 	<p>Suggested solutions:</p> <ul style="list-style-type: none"> According to user feedback they need to get a feature for customize their order. And used font size in appropriate way. And added file upload facility for better user experience 	

Sketches



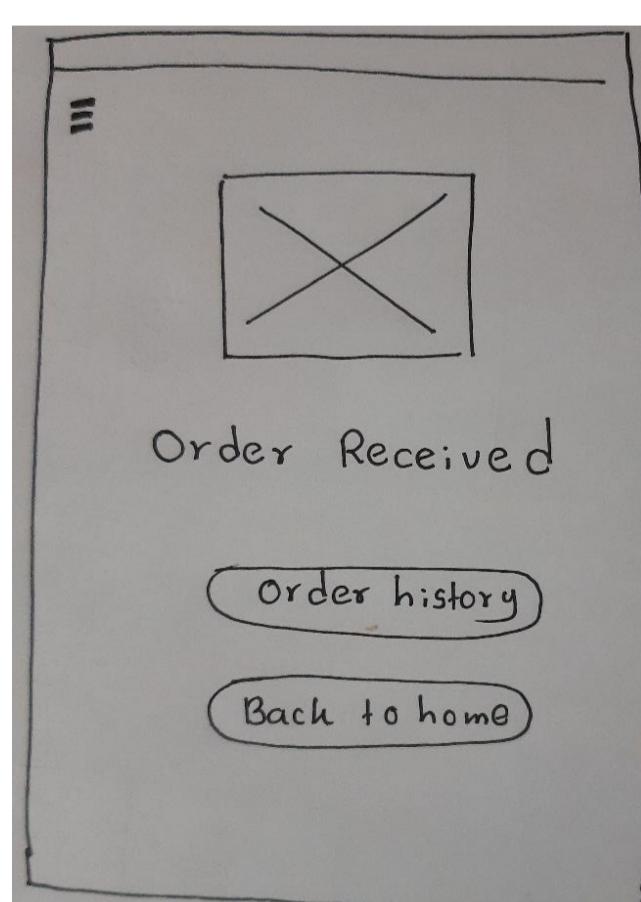
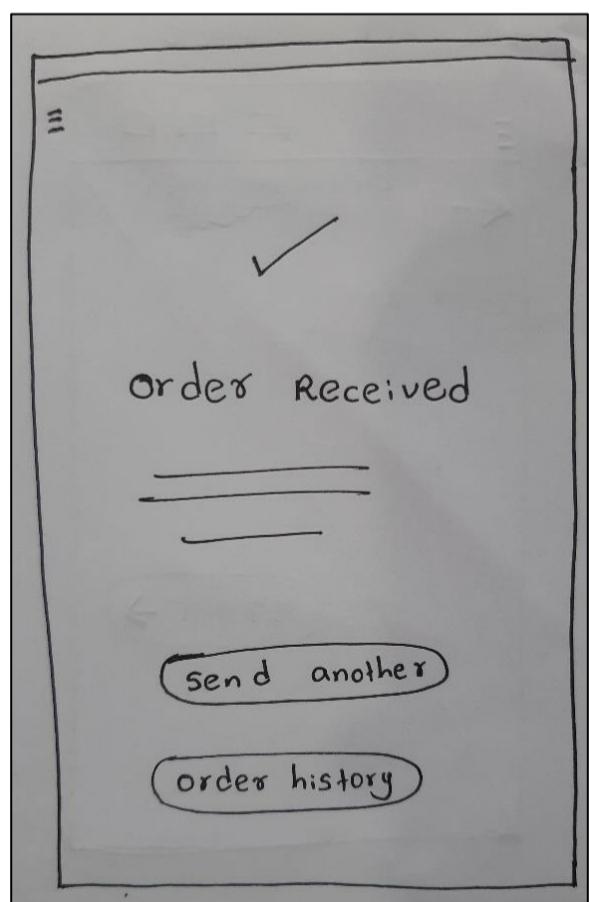
Wireframes

Interface 4 – Place Customized Cake Order Confirmation

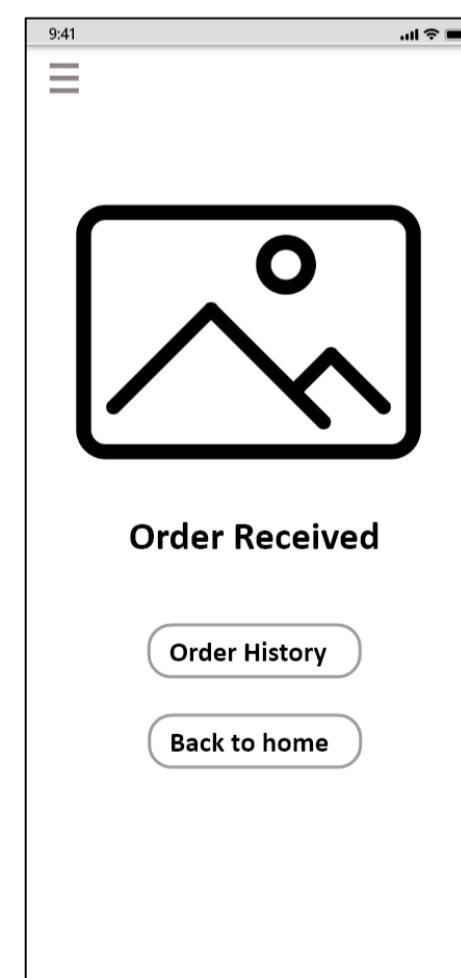
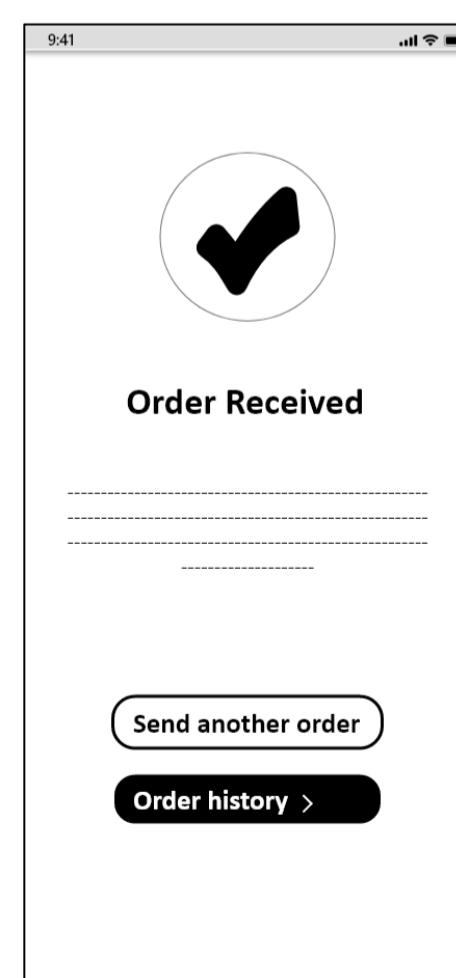
Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
<p>Failure points of the UI:</p> <ul style="list-style-type: none"> There is no customize cake function but designed by fixing failure of their general interfaces which related to not giving confirmation messages after any process. 	<p>Suggested solutions:</p> <ul style="list-style-type: none"> According to user feedback they need to get a feature for customize their order. And used font size in appropriate way. As well as navigation 	

Sketches

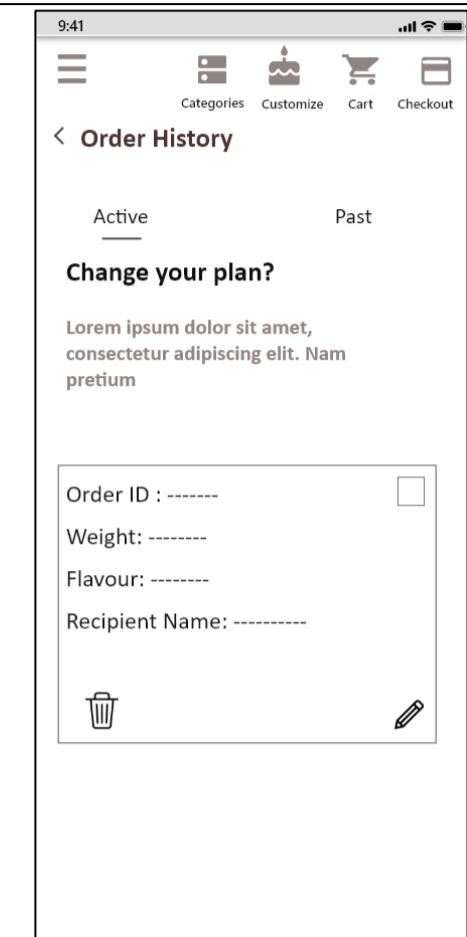
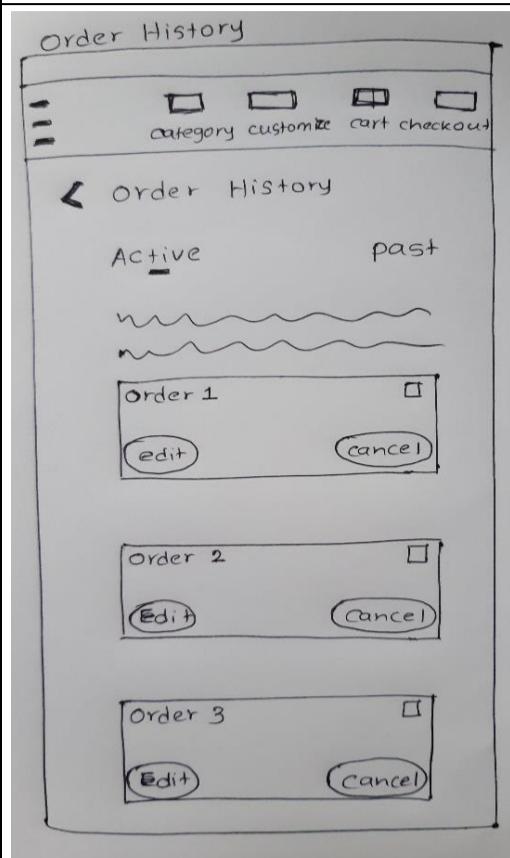


Wireframes

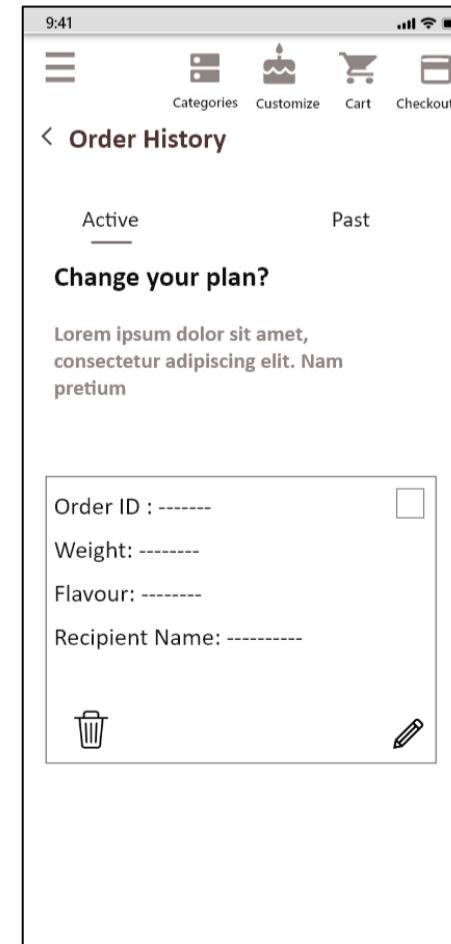
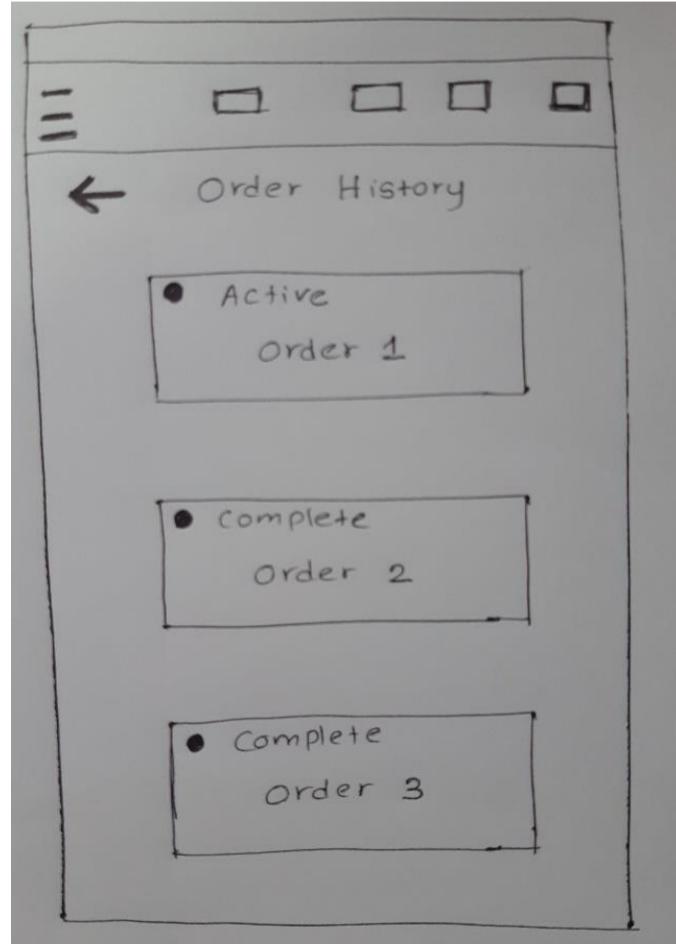
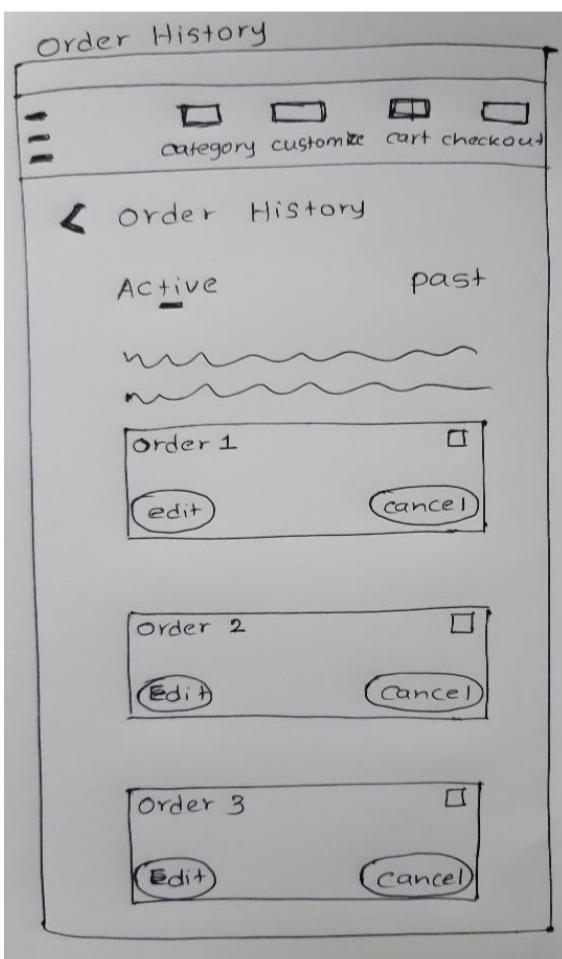


Interface 5 – Customized Cake Order History

Design Suggestions

Screenshot of the GUI	Proposed sketch	Proposed wireframe
		
<p>Failure points of the UI:</p> <ul style="list-style-type: none"> There is no customize cake function but designed by fixing failure of their general interfaces which related to not having order history to see their previous order details and manage them 	<p>Suggested solutions:</p> <ul style="list-style-type: none"> According to user feedback they need to get a feature for customize their order. And facilitated them to manage their order history by adding cancel orders edit order details in appropriate way. 	

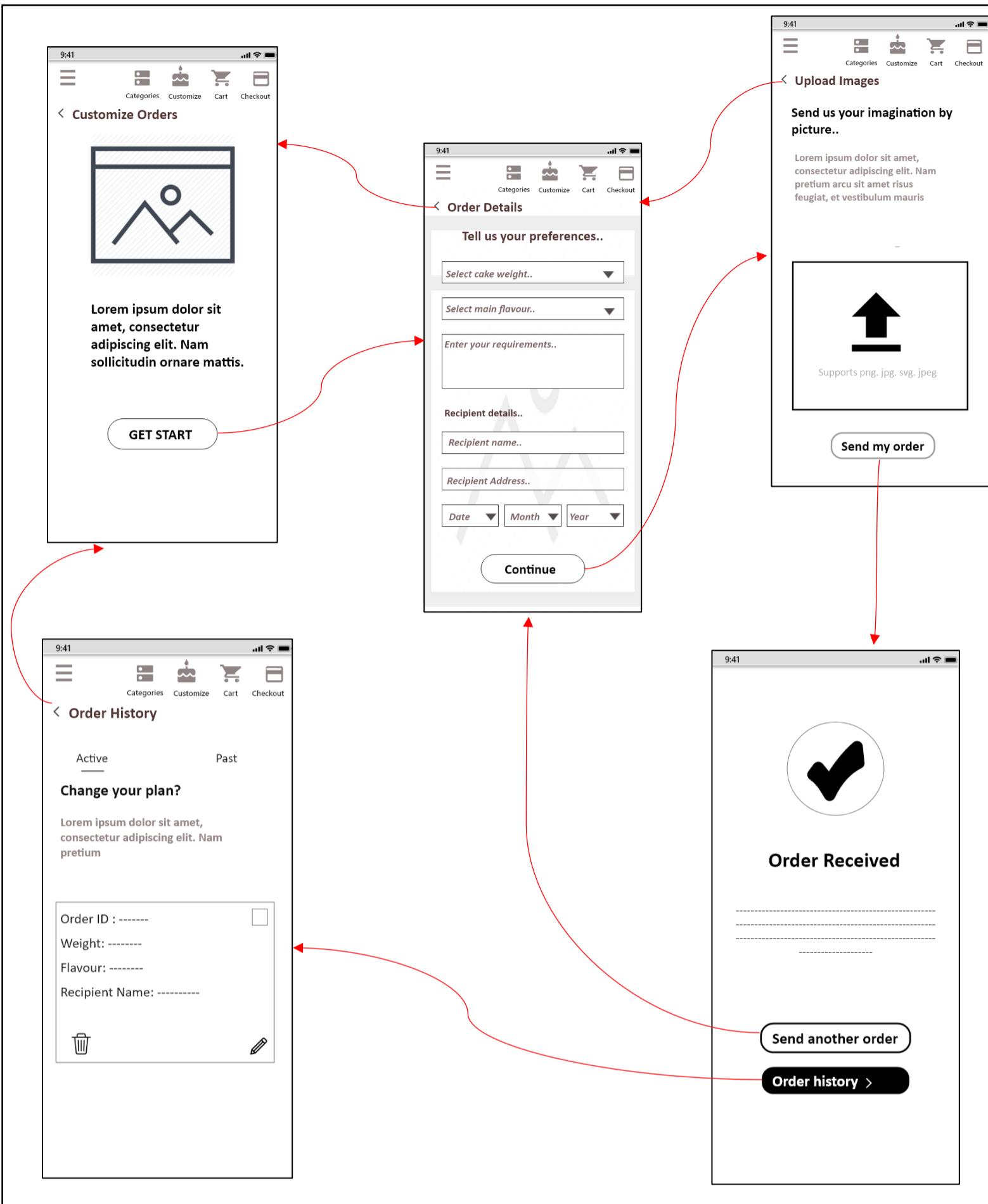
Sketches



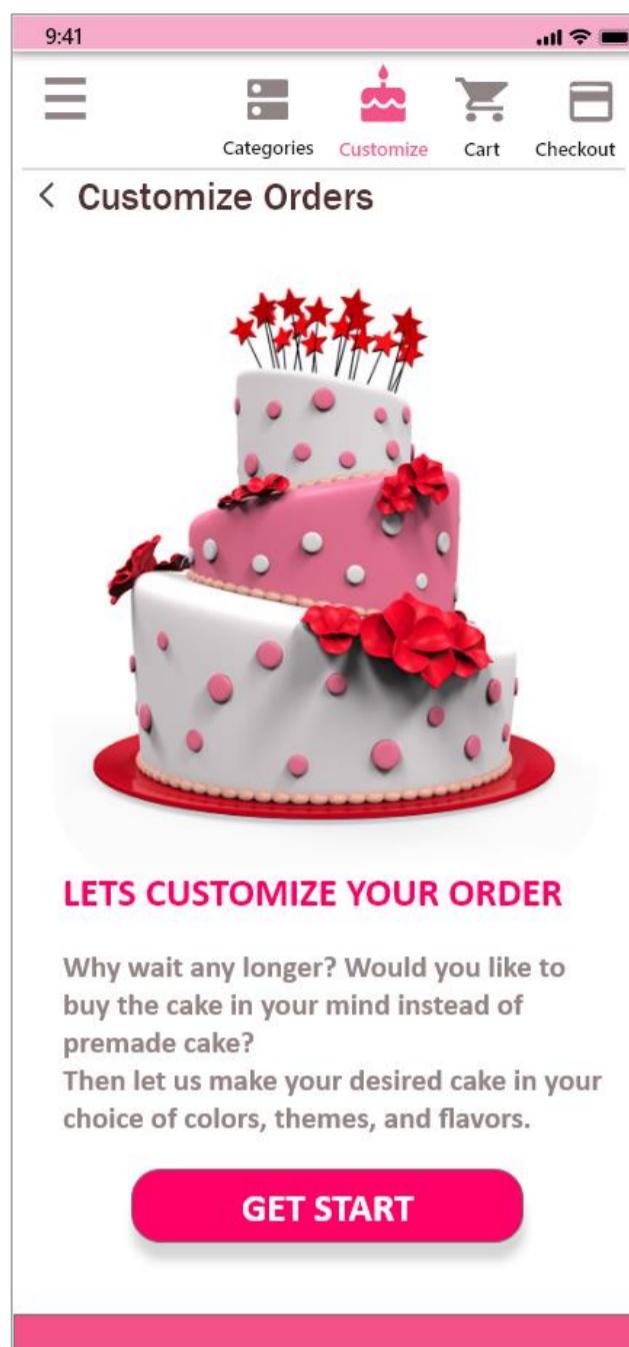
Wireframes



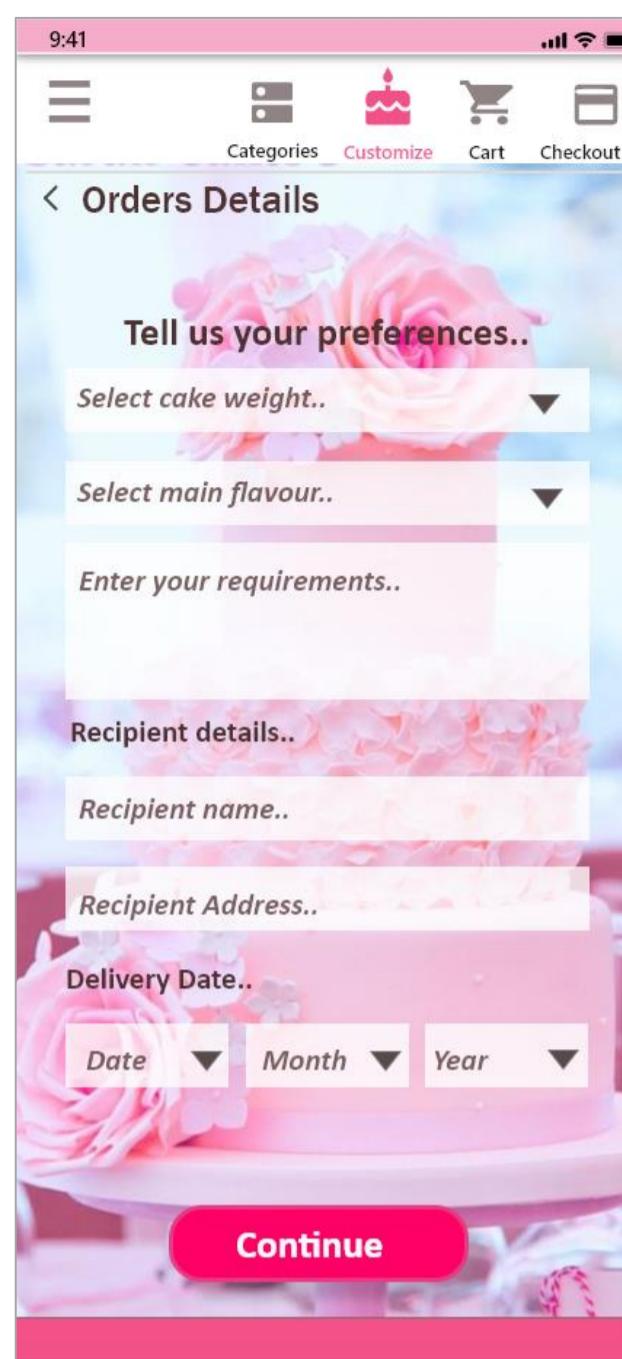
Connection Between UIs



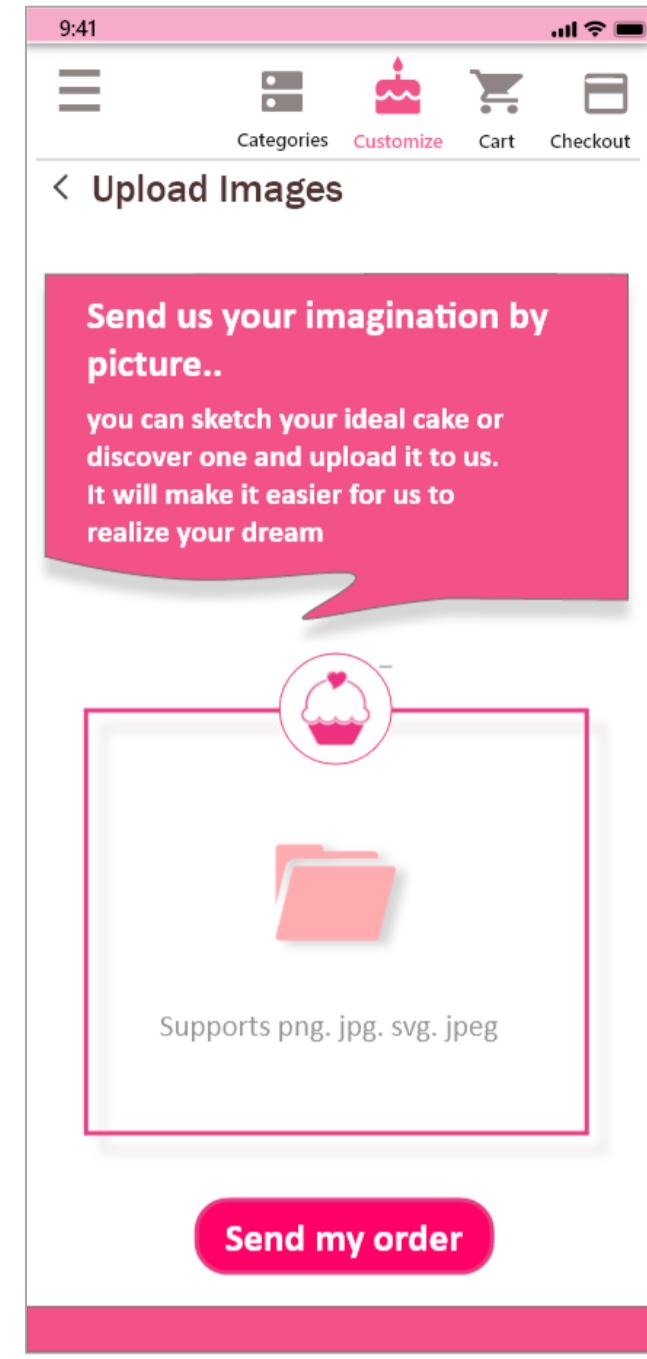
Prototype Version 1



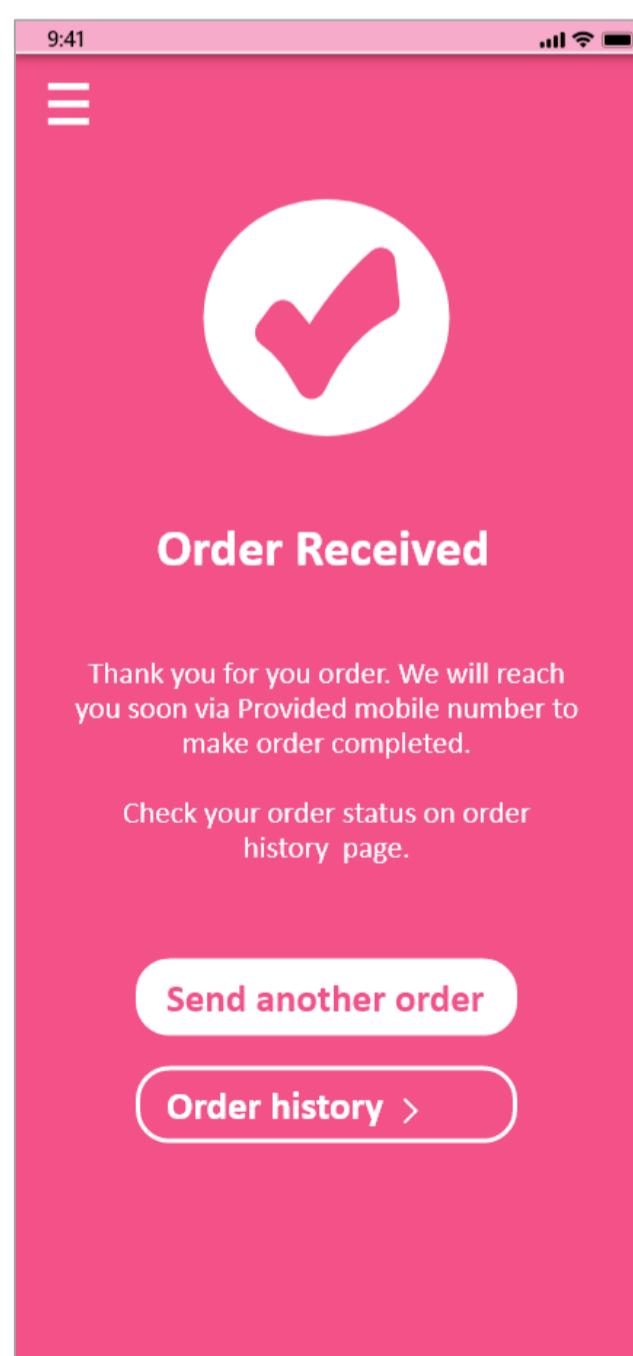
Welcome Page - Customized Orders



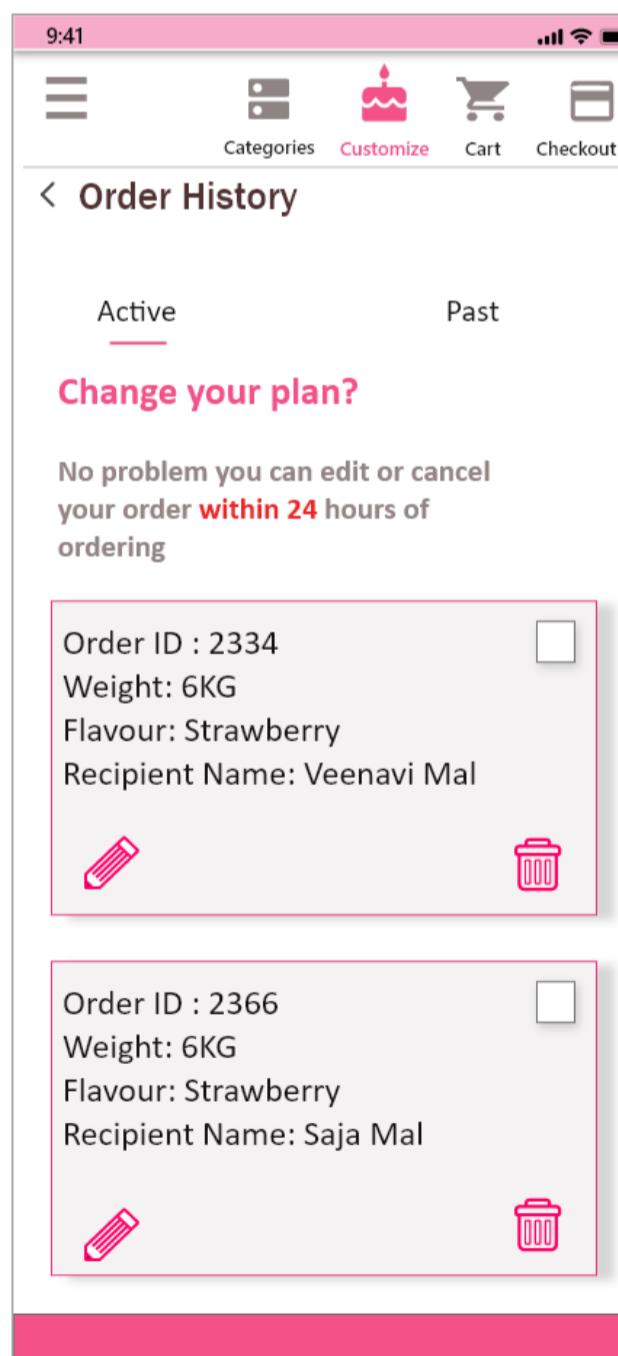
Place Customized Cake Order



Place Customized Cake Order – Upload Image

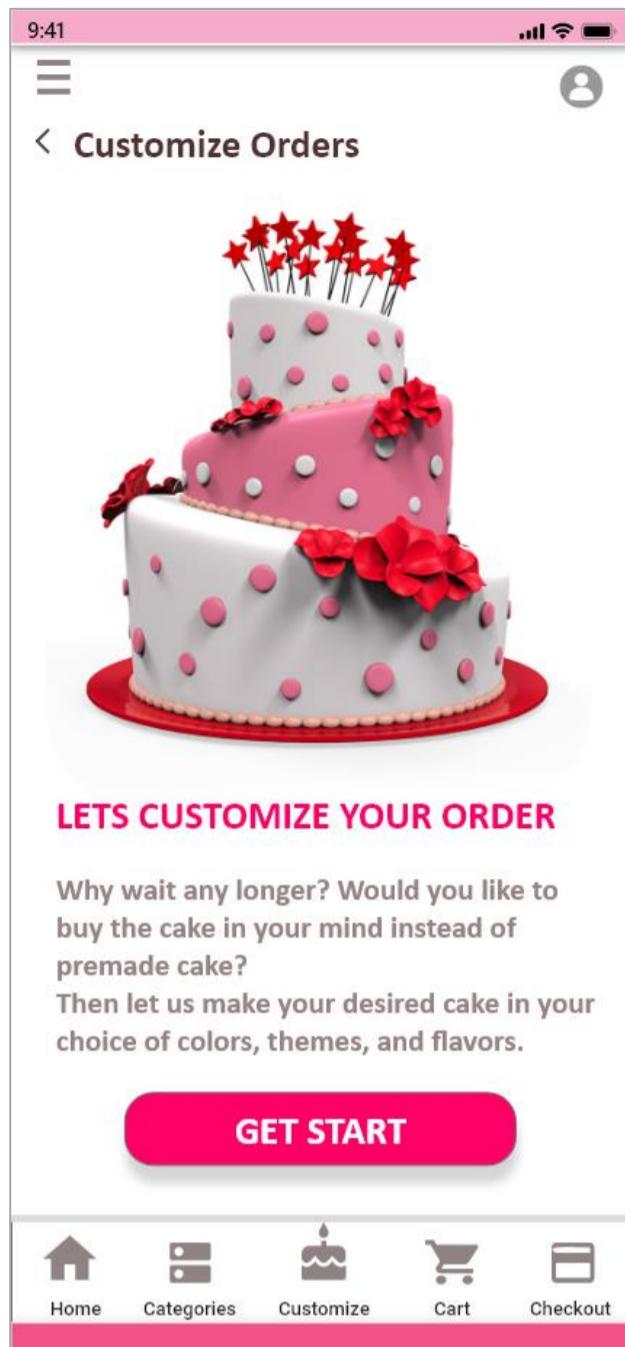


Place Customized Cake Order Confirmation



Customized Cake Order History

Prototype Version 2



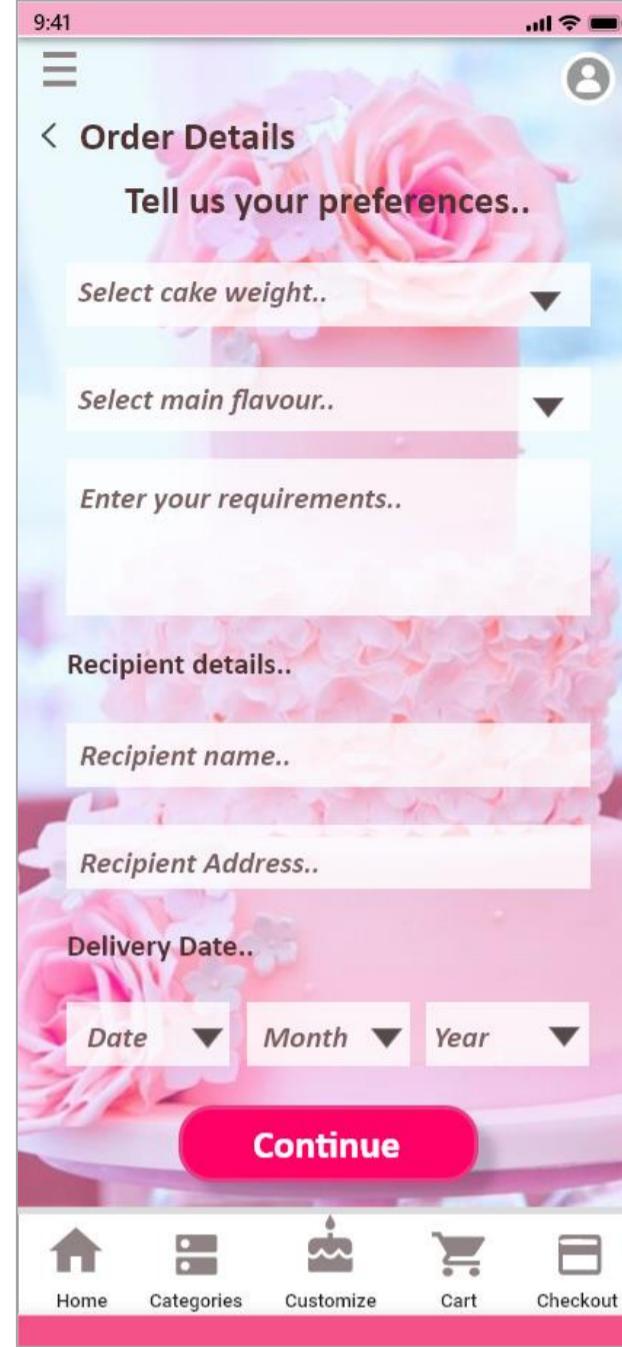
LETS CUSTOMIZE YOUR ORDER

Why wait any longer? Would you like to buy the cake in your mind instead of premade cake?
Then let us make your desired cake in your choice of colors, themes, and flavors.

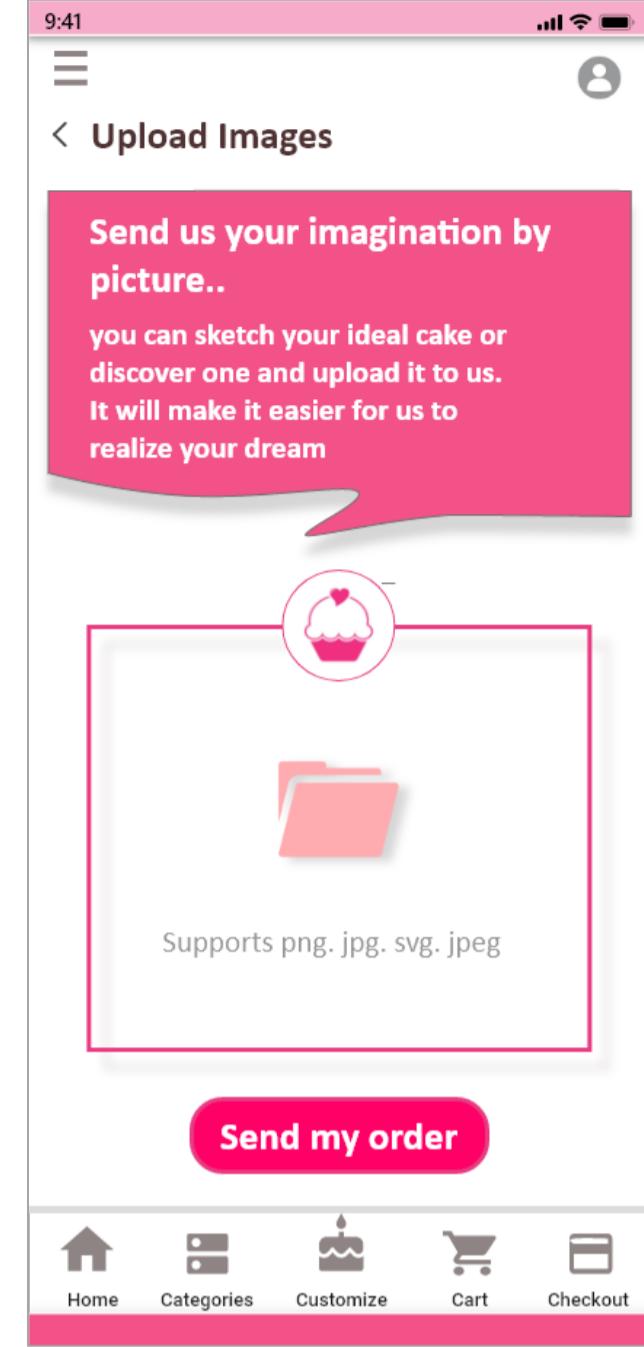
GET START

Home Categories Customize Cart Checkout

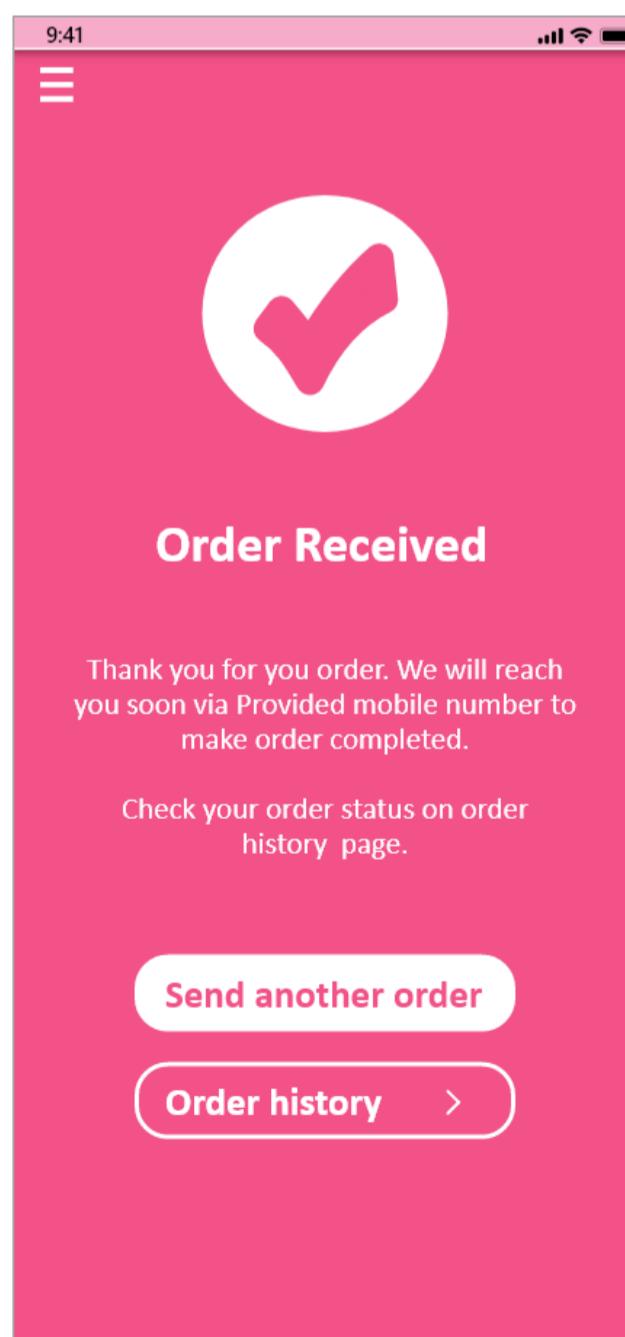
Welcome Page - Customized Orders



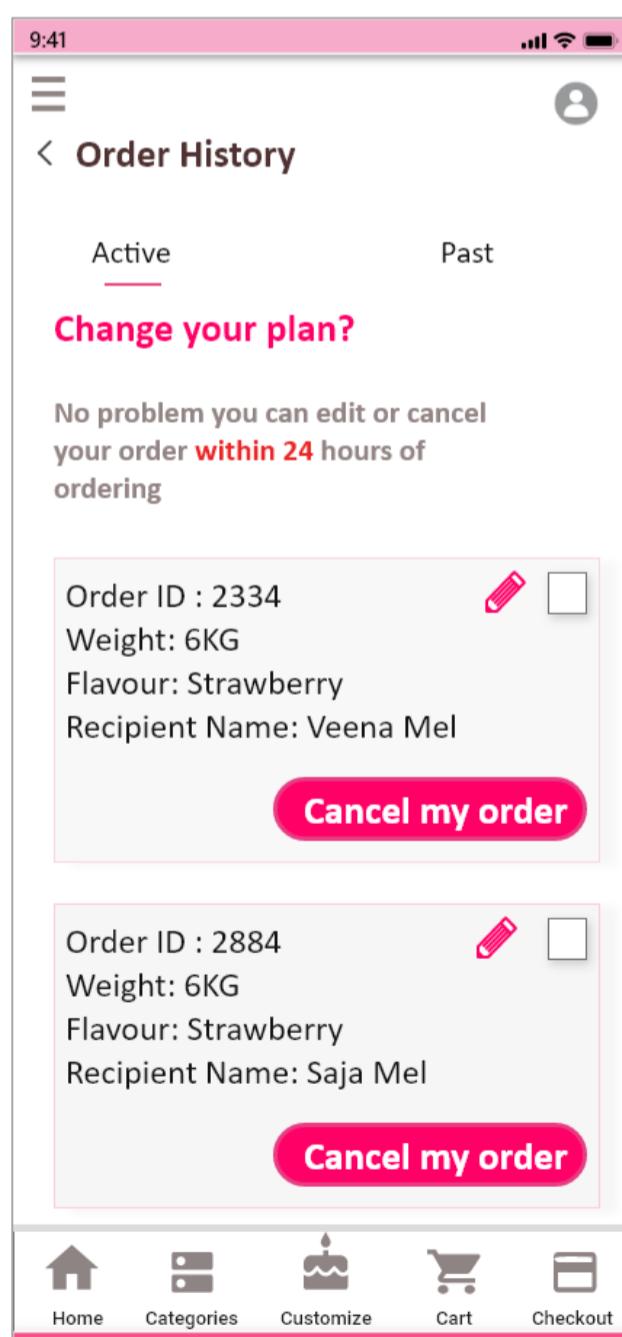
Place Customized Cake Order



Place Customized Cake Order – Upload Image



Place Customized Cake Order Confirmation



Customized Cake Order History

User Feedback for the Prototype

Video reference link: https://mysliit-my.sharepoint.com/:f/g/personal/it19953984_my_sliit_lk/EpficZYvClpAmfFwBSQxS7cBxM9tuesL8ewo8QJYXcHq0w?e=MsVLR8

Script – Interview 1

K.A.S.S Rupasinghe: Hi Mr. Shashi. So, it's us again. Today we are going to do a usability test. So, you may remember that last time we showed you this app and get your feedback. So, from your feedback, we were able to close the gap of this app. So according to your feedback we have implemented a prototype which is minimize the shortcomings that you have mentioned. So today we came to get feedback about our prototype. So, I will record this session as we did before. So, are you agree with it?

Mr. Shashi: Yes. I agree with it.

K.A.S.S Rupasinghe: OK, let's navigate to home page through the login and sign up and tell me about what do you think about the new appearance of this app.

Mr. Shashi: Actually, there is a big difference in this app over the previous one. It's very beautiful. It was very pleasing to the eye when using the app. In the previous the login and sign up were looks really like a card view. Now the form fields are in right size and it can be easy to fill and by clicking the sign up, it will navigate to the home page and the home page is really nice. It's nice to having these kind of item arrangements. Now we can maintain a wishlist also. Usage of eye-catching quality good picture is tempted to buy.

K.A.S.S Rupasinghe: Yeah, so it means the better than previous. Actually, we have used the quality pictures and the nice arrangements. I think than previous versions, right? So, this seems like the app is much better now than ever before. So, let's navigate to the cart by adding item and tell me about your opinions. Let's go back to the home and just add the item and go ahead.

Mr. Shashi: Actually, this is also very attractive and it's very clear and the fields that are used here is very easy to fill and the font sizes are very clear and there is option to increase the quantity and decrease the quantity and by adding, it will navigate to the cart and the shopping cart. In the previous version of the shopping cart is a very unclear because the picture of cake did not come to the cart so far. Now we can see pictures of the item on the cart, so it is very easy to recognize the item quantity and we can increase and decrease from here and the price also appears here, and if some user doesn't want to buy the item that added to the cart he can remove the item from the shopping cart easily.

K.A.S.S Rupasinghe: Yeah, the previous version, the items were without pictures. So now you have picture and you can clearly recognize what you have added the cart right? So, it's very easy to use I think yeah, so according to you, is there anything else that can be done to increase the user experience of this app.

Mr. Shashi: I think it's good to be navigation bar at the bottom of the interface because we use our phone most of the time we use the phone using our right hand and it's very easy and it's very easy to find and touch the navigation bar, if it's here and it will be easy for the navigation. When we come to the home page and this add to cart option I think it is too small and I think it would be nice to make it like a plus mark or an icon.

K.A.S.S Rupasinghe: Uh, OK, yeah there are minor shortcomings in there, right? Yeah OK Mr. Shashi. So, let's navigate to the payment option. So, what do you think about our brand-new payment option. We have done so many new arrangements of these payment options also.

Mr. Shashi: The payment function is really easy now because there were six or seven steps in the previous version and now there are a few steps to process the payment and form fields are in the right size so that the payment can be made without much hassle.

K.A.S.S Rupasinghe: Yeah, there were 7 or 8 steps to go through payment process, right? So yeah, we have done it from within two or three steps. So, Mr. Shashi according to you, this app can be used more efficiently than ever before, right? So, we added a brand-new feature to this app, which gives ability to order your own customized cake instead of pre-made cake. So, I would love to hear your thoughts on our new feature. So, let's navigate to the customized cake function and tell us your opinion.

Mr. Shashi: Yeah, I have mentioned this before, so I'm really happy about the customize cake page and it has been done very nicely and has a nice welcome page and also it's very user friendly and very pleasant and it allows user to fill those fields easy and it's very clear and it's allow user to add pics from Google and ask the cake makers to make the cakes like in that way and I can manage my orders very easily, so I am very happy about the feature.

K.A.S.S Rupasinghe: Yeah, you can manage your order by order history right so?

Mr. Shashi: Yeah, I can manage orders from order history.

K.A.S.S Rupasinghe: Yeah, so Mr. Shashi, what do you think about the overall app. Give me some brief explanation.

Mr. Shashi: Well, it is really much nicer than before. Very easy to use, very user friendly. It really made me to buy cake and I am happy with this app.

K.A.S.S Rupasinghe: OK, Mr. Shashi, so we really get good comments and thank you so much for giving us feedback and making time for us and we hope to improve this app by fixing those minor shortcomings that you have mentioned. So thank you for your participation.

Mr. Shashi: Thank you for inviting me.

Script – Interview 2

K.A.S.S Rupasinghe: Hi Mr. Janith, it's us again so today we are going to do a usability test again so you may remember that last time we showed you this app and get your feedback. So, from your feedback, we were able to close the gap of this app. So according to your feedback, we have implemented prototype which is minimize the shortcomings that you have mentioned earlier, so today we came to get feedback about the prototype from you. So, I will record this session as we did before. So, are you agree with it and ready?

Mr. Janith: Yes, that's OK and I'm ready, thanks.

K.A.S.S Rupasinghe: OK. Let's start, so let's navigate home page through the login and signup and tell me what do you think about the new appearance of this app.

Mr. Janith: Shall I take control?

K.A.S.S Rupasinghe: OK, you can get control of my screen.

Mr. Janith: All right, OK, so now I'm taking here I'm guessing this is the loading page and yeah. Going home and this is the sign in page. This is already much better than it was before. I mean, this feels like a sign in page. That's what I mean. So, there are bigger fonts here. I can see the words clearly and this is much more user friendly. I really like it. Do I need to fill these fields now? I can just move on, right?

K.A.S.S Rupasinghe: Yeah, you can move on. Ok. Tell me something about home page.

Mr. Janith: Yeah, this is the home page alright, let me check. First off, the picture quality is much, much better than what it was before. And yeah, the overall theme and the colors and the add to cart button everything feels so different and really usable. I mean, this is quite attractive. You've done a great job.

K.A.S.S Rupasinghe: How do you feel about?

Mr. Janith: I really like this and I see there's also a search bar here. Yeah, this could really work out. This feels very professional. Yeah, this is a great upgrade that you've done here.

K.A.S.S Rupasinghe: Yeah OK, that seems like the app is much better now than ever before, right?

Mr. Janith: Yeah, definitely better than before.

K.A.S.S Rupasinghe: OK, so let's navigate for the cart by adding some item and tell me about your opinions about the add to cart function.

Mr. Janith: Alright, so I'm clicking here then. OK, that navigates me here alright, and again reflecting back on what it was before. This is much more usable. I mean, this is more comfortable than what it was before. First of the color scheme I just love the color scheme, which is really pleasant. And there's not that many fields also, right? So, it's very easy to add something to the cart, right? I like it, and if I click here this will be added to the cart right.

K.A.S.S Rupasinghe: Yeah, you can click. OK something about the cart. What do you feel about the new shopping cart?

Mr. Janith: OK, difference I'm seeing here is that yeah, it there are pictures for the items which are already added to the cart right? So that's a massive upgrade from what it was because last version only had the letters, I mean the titles in the cart so you couldn't see what you already picked as the products were about purchase right so this I really like this, this is much better than it was and you could. You can clearly see the prices on everything we've added. And you can easily remove what's there on the path, so I really like this. This is much more than what was before. This is very user friendly and much more usable.

K.A.S.S Rupasinghe: Yeah, you can clearly recognize that what you have added to the cart. Right?

Mr. Janith: Yeah, that's a great.

K.A.S.S Rupasinghe: Yeah, OK. So according to you, is there anything else that can be done to increase the user experience of this app? Anything else according to your point of view.

Mr. Janith: Are there any more fields that you want me to show?

K.A.S.S Rupasinghe: No, let's give a brief explanation that if there are anything that increase the user experience of this app according to your point of view in the cart and homepage from anything.

Mr. Janith: I saw a two sort of buttons kind of things, then sort and filters somewhere. Can you get back to that place?

K.A.S.S Rupasinghe: Yeah, it's a home page I think.

Mr. Janith: Yeah. About these buttons, I think I icons much better than just having text on those on these buttons. What is the purpose of this buttons actually?

K.A.S.S Rupasinghe: Which means sort and filter. Yeah, it's actually it's a drop down, but I think, you cannot recognize at the first glance, right?

Mr. Janith: Yeah, I would have never guessed that it was a drop down. It doesn't work that we should have icons for those buttons.

K.A.S.S Rupasinghe: Yeah, according to your point of view, we have to increase our usage of icons, right? OK, instead of these two buttons. OK, so Mr. Janith the payment function is a troublesome one right in the previous version?

Mr. Janith: Yeah, there were so many pages in the previous.

K.A.S.S Rupasinghe: Yeah, there are so many steps also so I just wanted to know about your feelings about our brand-new checkout function so. Yeah, you can directly navigate through checkout, yeah?

Mr. Janith: I'm going. Alright OK. So, this I'm actually OK with this. I mean you could see what you can see clearly actually are purchasing and there are like not that many fields, but still enough of relevant information. Then like two payment details, right? So, this is what it should have been earlier, right? I mean, this is easy and this is just doable. I mean, you would want to purchase something from app like this, right? You don't want to go through multiple pages, right? Nobody, wants to go through 6 pages just to make a purchase, right? Yeah, that's my point all right.

K.A.S.S Rupasinghe: We have made it with 2 steps just two steps.

Mr. Janith: Yeah, alright, so if I click here. Yeah, it's a payment, successful message. OK, so you also give a payment successful message and that's really nice, OK so, if I click here. I'm getting it back to home, right?

K.A.S.S Rupasinghe: Yeah, so Mr. Janith, according to you, this app can be used more efficiently than ever before, right?

Mr. Janith: Yeah, I seriously believe that this is a big upgrade for that, and I think this is really user friendly and it was before it feels like a cake buying app.

K.A.S.S Rupasinghe: OK, so as you said, we added a brand-new feature to this app which gives you, ability to order your own customized cake instead of pre-made cake. So, I would love to hear your thoughts on our new feature. So let's navigate to the customized cake function and tell me about your feelings and tell me what you think about it.

Mr. Janith: OK, I believe it's the tab on the top of the page. OK, that's a really nice starting page. Yeah, quite user friendly. And if I click here, it navigates to you to this page. OK, I believe that you are letting the customer pick the cake he wants like click alright.

K.A.S.S Rupasinghe: Letting customize their own cake.

Mr. Janith: OK, alright, that's really smart and this page. Yeah, I'm really comfortable with this page. This is a good page nice, alright, I'll continue.

K.A.S.S Rupasinghe: Yeah, OK. And this facilitates to add some pictures from Google your device and you decide cake. Your imagination like that. Yeah you can sketch someone and add.

Mr. Janith: So, you can ask for a similar cake to the picture that's in here, right?

K.A.S.S Rupasinghe: To this because it gives bakers to the cake in your mind. They can get better idea about the cake.

Mr. Janith: Alright, I understand alright, so if I take here what would happen in my order? OK, send my order can click it and it will get confirmation message and you can navigate to this. So yeah, this is a really nice message that you can like. Give us a confirmation you said I really like this whole interface that you implemented here.

K.A.S.S Rupasinghe: Yeah. Do you love the used colors and the color blend? Yeah, because previous one has so faded colors they have used.

Mr. Janith: Yeah, yeah.

K.A.S.S Rupasinghe: OK, you can navigate to the order history and go.

Mr. Janith: Alright, let's see. Alright, I'm clicking here, yeah?

K.A.S.S Rupasinghe: So, what do you think about the order history management?

Mr. Janith: Looking at it normally it feels quite fine, but what does this dustbin icons do here.

K.A.S.S Rupasinghe: Ah, it's for cancel your order.

Mr. Janith: I believe a cancel order button which spells out the word cancel order would be much better than, dustbin icon, and these are the orders I believe. Yeah, I mean, they're pretty decent and brief. Yeah, I like it that way. And these should be proper buttons instead of just icons, right? That's the only concern I have with this.

K.A.S.S Rupasinghe: OK, you're telling that the trash icon should be removed, and there's some kind of a button should be added, right? OK. Mr. Janith, So what do you think about the overall app? I think you have missed some pages in home and categories.

Mr. Janith: Or you could wait till we get to home page from. The yeah, that's also a new feature, right? Yeah, I like that I like that you can do that before.

K.A.S.S Rupasinghe: You have to go through all the steps to navigate the home page in previous version, right? That's good because your journey this have made so troublesome with this homepage navigation I have.

Mr. Janith: Yeah, I remember yes. Yeah, so if I click here. OK, so categories I remember doing a drop-down list and I believe this is a way better representation of categories. Yeah, you can see the nice pictures and everything so.

K.A.S.S Rupasinghe: So, what do you think about the overall app? What you can tell?

Mr. Janith: So, I think it is way better than what it was before. I would really love to use this app after implemented properly and completed. And yeah, this is a better user experience than what was in the first step. Yeah, I really like this.

K.A.S.S Rupasinghe: OK. Mr. Janith, we really got good comments and thank you so much for giving us feedbacks and making time for us. Actually, because you are instead even you are a very busy person.

Mr. Janith: I'm sorry about the call in the middle of the meeting.

K.A.S.S Rupasinghe: It's totally OK and we hope to improve this app by fixing those minor shortcomings that you have mentioned to us. So, thank you so much for your participation.

Mr. Janith: Alright, thank you very welcome and thank you for having me.

K.A.S.S Rupasinghe: Thank you so much and goodnight Mr. Janith.

Mr. Janith: Goodnight.

Features that need to be further developed according to user feedbacks

- Better have a filter icon and sort icon instead of version 1 design in home page. Because, it seems like two buttons.
- Better to have a delete button instead of trash icon in customized order history
- Better to have a '+' icon instead of 'add to cart' button. Because it takes too much space in cake list view
- Better to add a 'reset' buttons to forms
- Better to add the navigation bar to bottom of the UI.