Project Design Report (F34-DG09)

by EEE SHOON ZHEN YONG

IE4717 Web Application Design - Project Report

Design project group number: F34-DG09

Team Members: Shoon Zhen Yong, Kua Jia Kang

Project Title: A web portal for online pizza delivering - Connectus

Summary of Project: The objective of this project is to design a web application for online pizza delivery. The web application is a one stop portal for the restaurant. In our homepage, posters and the restaurant's history are displayed. In our web application, users can choose to register and login to our portal for quicker booking process and membership rewards. Our application includes a page showing different food served and their details. Users can customize the food served and add them into their cart. By selecting the cart, users will be directed to our order page to view the full summary of the food added to the cart and the subtotal amount before proceeding to payment. Our application also includes a page for users to redeem vouchers through membership points, unique code and deals offered by the restaurant. Users can check their redeemed vouchers and add them into the order summary before checking out. Few payment methods will be provided for users to choose for user convenience. Once the payment is done successfully, an email notification including the booking details will be sent to the user. Our application also provides users order history checking feature.

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1.Application Requirements and Specifications

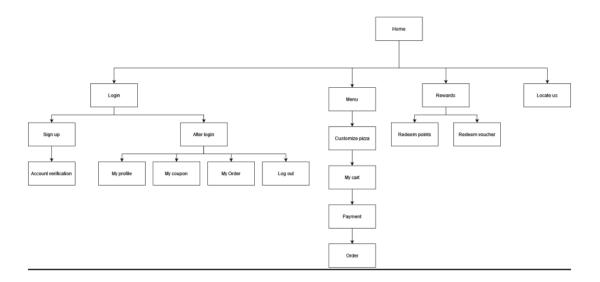|	Requirements	Specifications
R1	Home Page Overview	Users can view posters, best deals and restaurant's introduction in the homepage
R2a	Login	Users can login to the system by filling in his valid email address and password to allow autofill of particulars
R2b	Sign Up	Users can sign up to become our member by filling up account information (email address & password) and personal information (name & contact number)
R3a	My Profile	Signed in users can make changes on their personal information
R3b	My Coupon	Signed in users can view their redeemed coupons
R3c	My Order	Signed in users can view their order history
R3d	Logout	Signed in users can log out anytime
R4a	Menu	Users can view all the available food served (Pizza, Side Order and Beverages) and their description
R4b	Add to Cart	Users can add the available food served to their shopping cart
R4c	View Cart	Users can view their shopping cart and the subtotal amount. User can remove the item from the cart if necessary
R5	Personalize Pizza	Users can choose the size, crust and edit the toppings of the pizza
R6	Add Coupon	Users can add their redeemed coupon to the view cart
R7	Payment	Users can select their preferred payment method
R8	Payment Successful	Payment successful page will be shown and users will receive an order confirmation email with an order ID
R9a	View Tier Benefits	Users can view the different tier benefits and the membership point system
R9b	Redeem Points	Users can redeem voucher/coupons with their membership points
R9c	Redeem Vouchers	Users can redeem voucher/coupons through a unique code or redeem voucher/coupons provided by the restaurant
R10	Locate Us	Users can view and search all the branch available, operating hours and outdoor appearances

2.Functional Requirements and Specifications

	Requirements	Specifications
F1	Home page overview	- A banner which shows the restaurant's foods and best deals. - A section for history which highlights the history of pizza. - A section for how the restaurant started to have a brief introduction for the restaurant. - A section for chef introduction to introduce the chef of the restaurant.
F2a	Login	- A login form for users to login into their account using their email address and password. User must fill in all these information to login,
F2b	Sign up	- A sign up page for new users to sign up for a new account. Users must key in all required fields to sign up. - Once a new user completes a sign up form, a verification email will be sent to the user's email.
F3a	My Profile	- Users can make any changes to their personal information by accessing My Profile in the top right corner after login. - Information such as email, password, title, name, date of birth, mobile number can be modified here.
F3b	My Coupon	- Users can view their redeemed coupons by accessing My Coupon in the top right corner after login.
F3c	My Order	- Users can view their orders by accessing My Order in the top right corner after login.
F3d	Logout	- Users can log out of their account by accessing the top right corner of the page and will display the homepage upon logging out from the web portal
F4a	Menu	- Display all pizzas, side dishes and beverages with their prices. - Users can click on Add To Cart to start ordering their pizza.
F4b	Add to Cart	- Display buttons for users to add the items to cart.
F4c	View cart	- Display items in cart and their subtotal. - Display individual orders and remove them if neccesary.
F5	Personalize Pizza	- Display a drop-down list for users to select the pizza's size and crust. - Display button number incrementers for users to edit the topping value and quantity of the pizza. - Display button for users to select whether they want to add

			cheese or not. When the button is pressed, another color will be displayed.
R6	Add Coupon	-	Display redeemed vouchers to be added to cart.
R7	Payment	- -	Display payment methods available for users to select. Once completed, the payment will be handled by a third-party portal.
R8	Payment Successful	- -	Display the booking reference upon successful payment. Send the confirmation email to the user. Display a direct link for the user to click to view his order history.
R9a	View Tier Benefits	-	Display an image that shows the user's membership points.
R9b	Redeem Points	-	Display the details and membership points needed to redeem the voucher.
R9c	Redeem Vouchers	- -	Display the form for users to enter a unique voucher code to redeem the voucher. Display the details of the voucher release by the restaurant
R10	Locate Us	- -	Display the search bar for users to search for the location of the other branch of the restaurant. Display the information (opening hours, exact location, outdoor appearances) of the restaurant.

3. Design of the Web Application

3.1 Sitemap

3.2 Storyboard

The storyboard is designed based on certain scenarios. The list of scenarios that we had planned is shown as below.

- Users wish to login or sign up for an account
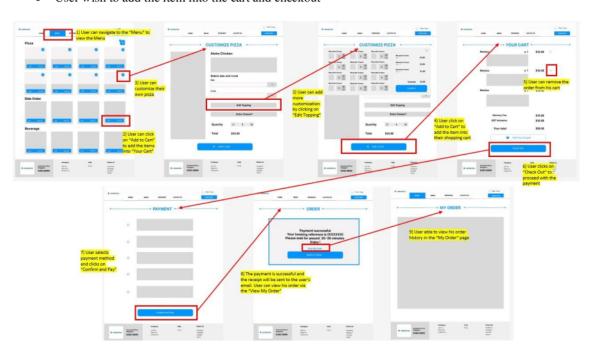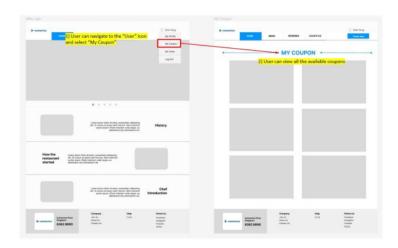- Users wish to reset their account password
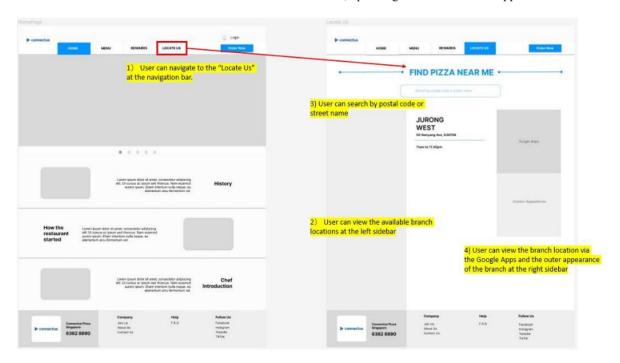- Users wish to add the items into the cart and checkout
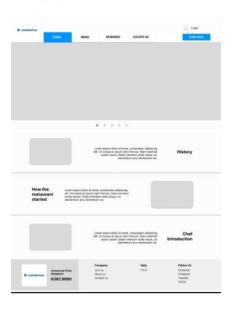- Users wish to view their reward points, redeem vouchers and view their vouchers
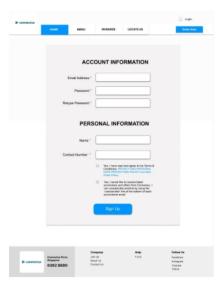- Users wish to check for our restaurant's branch location, operating hours and outdoor appearance
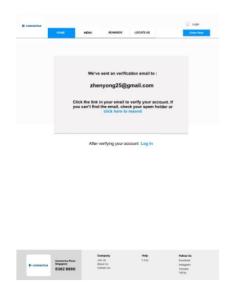
- Users wish to login or sign up for an account

- Users wish to reset their account password

Anonymous User

Logged-In User

- User wish to add the item into the cart and checkout

- Users wish to view their reward points, redeem vouchers and view their vouchers

1) Users can navigate to "Rewards" and see how much reward points they have. It also shows the available rewards for users to exchange

2) User can view the rewards description and points needed to redeem the voucher

3) User can navigate to redeem vouchers by entering unique external voucher code or redeem voucher provided by restaurant

4) A pop-up notification will appear to show that your coupon has been redeemed successfully. Upon redemption, you can view all your coupons by clicking on the "View your coupon"

Alternatively,

1) User can navigate to the "User" Icon and select "My Coupon"

2) User can view all the available coupons

● Users wish to check for our restaurant's branch location, operating hours and outdoor appearance

1) User can navigate to the "Locate Us" at the navigation bar.

FIND PIZZA NEAR ME

3) User can search by postal code or street name

JURONG
WEST
50 Nanyang Ave, 639798

11am to 11.30pm

Google Maps

Outdoor Appearances

2) User can view the available branch locations at the left sidebar

4) User can view the branch location via the Google Apps and the outer appearance of the branch at the right sidebar

3.3 Wireframe

Homepage

Homepage

User Login

User Sign Up

User Sign Up (Verification)

User (Forget Password)

User (Reset Password)

User (Profile Bar)

User (My Profile)

User (My Coupon)

User (My Order)

Menu
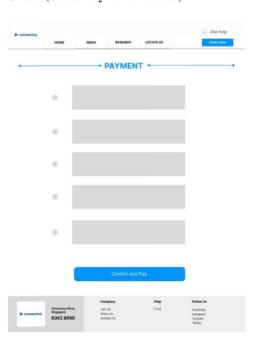
Menubar

Menu (Customize Pizza)

Menu (Edit Topping)

Order (My Cart)

Order (Select Payment Method)
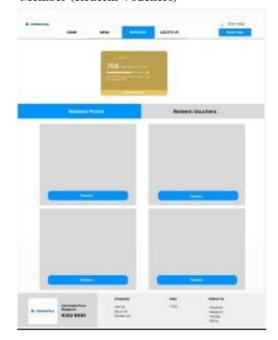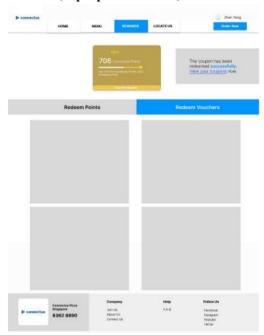

Order (Payment successful)

Rewards

Member (Redeem Points)
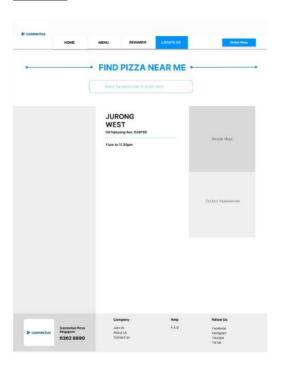

Member (Redeem Vouchers)

Member (Pop-Up Notifications)

Locate Us

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