**FACULTY OF COMPUTING & INFORMATICS (FCI)**

**TIS3551**

**MOBILE APPLICATION DEVELOPMENT**

**PROJECT**

**GROUP NAME: Aldeberan**

**Aldeberan Emporium: A Bakery E-Commerce Mobile Application**

|  |  |  |
| --- | --- | --- |
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## Abstract

Recently, most of the economy is heavily affected by the Covid-19 pandemic worldwide. The Malaysian government has started implementing the new policies and Movement Control Order (MCO) on 18 March 2020 to tackle this pandemic. Hence, our team, Aldeberan Emporium (a bakery shop) came up with a solution, to integrate delivery service into a mobile app.

## Objectives

1. To reduce management costs and increase sales.
2. To boost the efficiency of services.
3. To make a responsive e-commerce android application.

## Conditions of the Application

1. Ensure your phone emulator or phone device has the google play app store. Reason is because the user is required to use these built-in features to do the google sign-in authentication for our application.
2. To login as an admin, you should use the email and password that we provided. Admin accounts have extra features like add product, update the product, and delete the product while normal users cannot access these features.

Email: **noreply.aldeberanemporium@gmail.com**

Password: **Admin@ae**

1. For login, the google sign-in is not stable when the user is sign-in it for the first time, so users are required to login back again or at least tried until it login successfully.
2. Do not spam the button for adding the items into the cart and wishlist, do it slowly. Because we are using a free version of API/Databases, hence the speed for data processing is slow.
3. When setting up a new address, please make sure that the address is within West Malaysia ONLY. This is because the delivery service is yet to cover the entire Malaysia. If the address is not within West Malaysia, the user cannot submit or update that particular address.
4. If the user does not want to enter their personal credit card number when doing the item checkout, the user must use the stripe credit card data that we provided in the report. The date/year must be later than the current (real-time) date/year, for CVC and postcode can type any number that the user wants.

**Stripe credit card info**

All time success: **4242 4242 4242 4242**

All time fail : **4000 0000 0000 9995**

Require auth : **4000 0025 0000 3155**

1. Upon completing the order for the first time, the email received will most likely be stashed in the spam mailbox. This is because recently Google had made changes so that the user is required to “trust the sender” first in order for the email to appear in the inbox.

**Screenshots of your application program**

|  |  |  |
| --- | --- | --- |
| 1 | Splash screen when loading the application. |  |
| 2 | For the login page, we do not create a page for the registration. Instead we are using the google sign-in authentication to create an account and login. |  |
| 3 | Homepage which contained the bread products. It allows the user to add the item into the cart or the wishlist.  The navigation bar can navigate to home, another home that shows all of the products, cart, and user setting fragments. |  |
| 4 | Cart pages allow the user to increase or reduce the item quantity. The total amount of the items will be displayed. Clicking the “Confirm Order” button will redirect the user to the checkout page. |  |
| 5 | Checkout page will show the items that the user selected before he/she clicks the “Confirm order” to pay the money.  Inside it will show the item quantity, item name, item total price, button for select the address in address book page, button for go back to homepage to add more item(s), and lastly total price for the summed items and delivery fee. |  |
| 6 | Stripe payment page which will show the total price and allow the user enter their credit/debit card info and postcode. Once the “Pay” button is clicked, the credit/debit card will be validated.  The payment completed message will be shown if the credit/debit card is valid.  3D Secure checkout will be triggered if the particular credit card requires authentication. |  |
| 7 | This is the map page.  Users will be navigated to the map page after completing the payment. Users can see estimated time of arriving, distance and the real-time location of the rider during the delivery. |  |
| 8 | This is the user setting page, inside contains user info, address book, my wishlist, order history, admin panel (Normal users do not have this feature except for admin), and lastly logout. |  |
| 9 | User info fragment inside user setting. This fragment will show the user profile picture, user email, user ID, and user name.  This fragment also allows the user to report a bug if there is an occurrence of bug.  There is a button for the user to return to the user setting as well. |  |
| 10 | Address book page inside user setting.  This activity will allow the user to add, edit or delete their addresses.  Users also can set their default address in this page, allowing them to fast checkout. |  |
| 11 | Wishlist page inside the user setting.  It allowed the user to store their favourite breads in here. The user can click the “Love” icon from the homepage to add items into the wishlist. The user also can remove the items from the wish list or add items into the cart. |  |
| 12 | This is the order history page.  In this page, users can view their order history including the order status, number of ordered items, and the total amount of order. The user can click each row for a particular order history detail.  The order history detail will have order status, list of ordered items, ordered quantity and price for each of the items.  There will be the amount of merchandise subtotal, delivery fee, and order total.  Finally, the payment method will also be shown. |  |
| 13 | This is the search function in the home listing product page and full product listing page.  The result bread will be shown according to the searched input. |  |
| 14 | This is the admin panel page.  The admin can add the item, update the item, and delete the item in this page. Then the home product and all product listings will be updated accordingly. |  |
| 15 | The user will receive an email once the order is successfully checked out. |  |

## Appendix 3: Distribution of the Tasks

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| --- | --- | --- | --- | --- | --- |
| No | Task Description | Member in-charge | Date Assigned | Date Completed | Remark |
| 1 | Login page  (Google Firebase Authentication) | Ong Shuoh Chwen  Yong Wen Kai | 24/09 | 30/09 | When facing problems with login, just clean the project and build again. |
| 2 | Homepage/  Product Listing Page | Leong Kah Ming  Chong Wai Hou | 26/09 | 30/09 | - |
| 3 | Wishlist page | Leong Kah Ming | 24/10 | 26/10 | - |
| 4 | Cart Page | Leong Kah Ming  Chong Wai Hou | 05/10 | 11/10 | The total price/ items sometimes do not update correctly. Required to refresh it if needed. |
| 5 | Order History Page | Chong Wai Hou | 16/10 | 19/10 | - |
| 6 | Order History Detail Page | Chong Wai Hou | 19/10 | 24/10 | - |
| 7 | Checkout page | Leong Kah Ming  Chong Wai Hou | 13/10 | 16/10 | - |
| 8 | Google Map for Food Delivery | Ong Shuoh Chwen | 06/10 | 09/10 | Advised to see the motorcycle till the end. |
| 9 | Online Database (Heroku ClearDB/Google Firebase Realtime-Database) | Yong Wen Kai  Ong Shuoh Chwen | 25/09 | Present | Please be advised that we do have a very slow connection due to free services of heroku. |
| 10 | Backend (PHP, Node.js) | Yong Wen Kai  Ong Shuoh Chwen | 25/09 | Present | - |
| 11 | Payment Gateway | Yong Wen Kai | 03/10 | 05/10 | Please use the credit card info provided as we are using testing mode for all of our payments. |
| 12 | User Info | All members | 04/10 | 04/10 | - |
| 13 | User Address Book/Checkout Address Book | All members | 04/10 | 05/10 | - |
| 15 | Admin Panel | Ong Shuoh Chwen | 25/09 | 03/10 | - |
| 16 | Models/Structures | Ong Shuoh Chwen | 25/09 | Present | - |
| 17 | User interface design/enhancement | All members | 09/10 | 24/10 | - |
| 18 | Debugging | All members | 25/09 | Present | - |
| 19 | Easter eggs | All members | 31/10 | 31/10 | - |