ISAD251 Application Design Document and Application Fact Sheet Ho Ka Shing, Douglas Student Ref. 10679452

Links of the Application for reference

GitHub repository link:

https://github.com/dram001/CW-Douglas-Pub

YouTube Demo Video (1080p):

https://youtu.be/JHUAI1vFS0k

RESTful API Middleware for Items:

https://localhost:44300/api/itemsapi

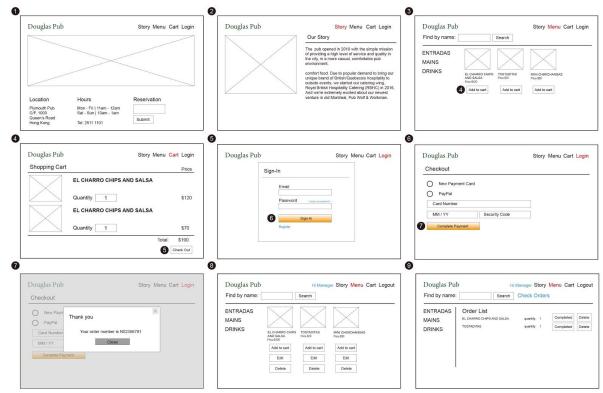
RESTful API Middleware for Orders:

https://localhost:44300/api/ordersapi

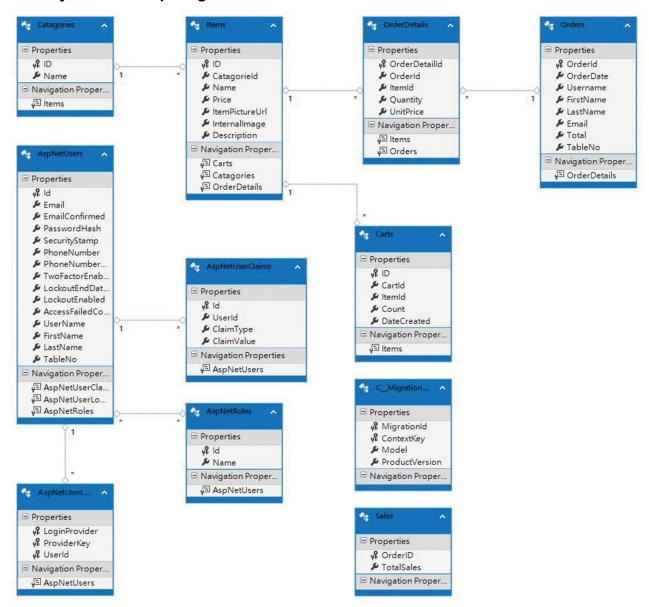
1. Application Design Document

Storyboard

Douglas Pub Storyboard

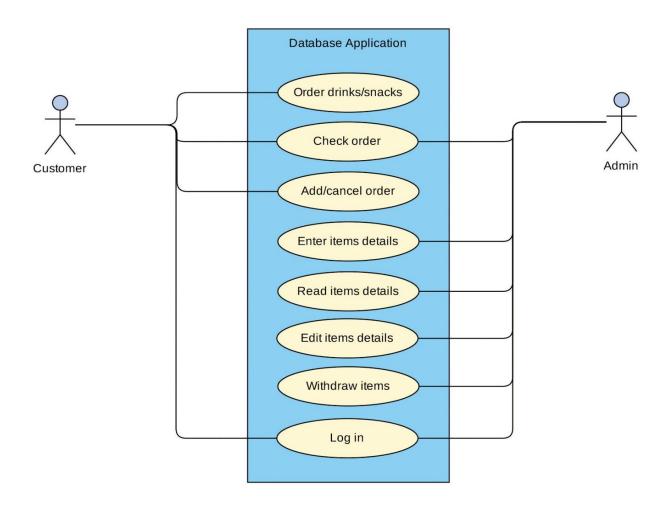


2. Entity-Relationship diagram

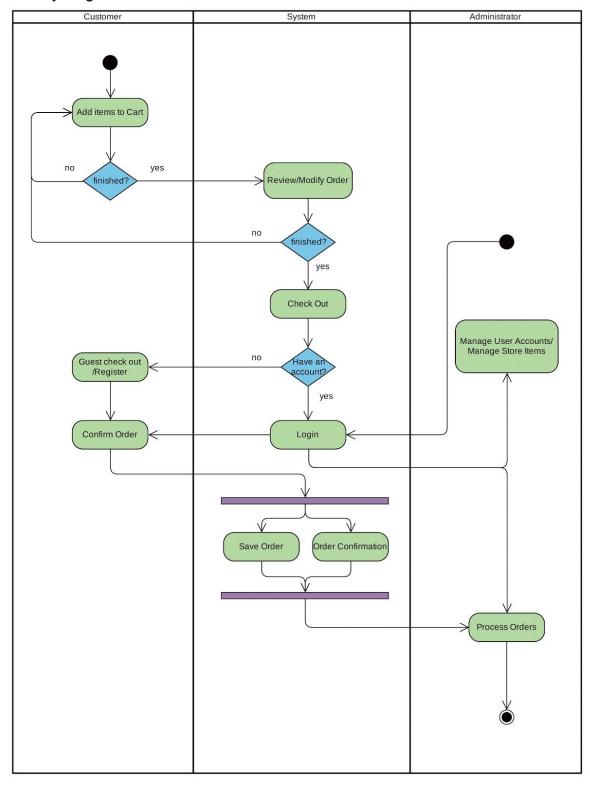


3. UML diagrams

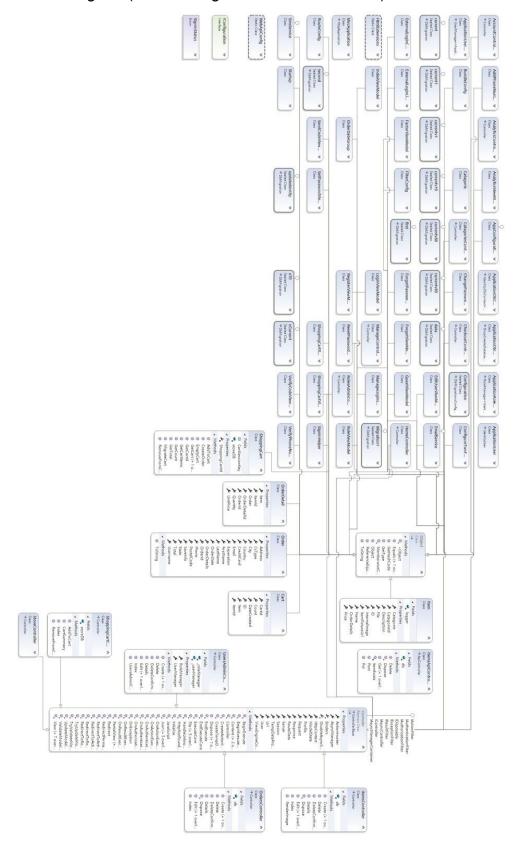
Use case diagram



Activity diagram



Class diagram (a clear image is included in GitHub)



4. Settings

Please first run the package manager console to Seed the Database:

Update-database

Please run the sql (included in the GitHub SQL file folder) for database food images initialization:

- 1) select New Query at Server Explorer
- 2) run the sql queries (included in the SQL folder) for creating a view
- 3) run the sql queries (Please see the sql folder and revise the drive of the suitable path $*D:\$:

Etc.

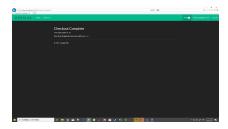
Admin login

user: admin@gmail.com password: Admin@123

5. Tested with different browsers



Chrome

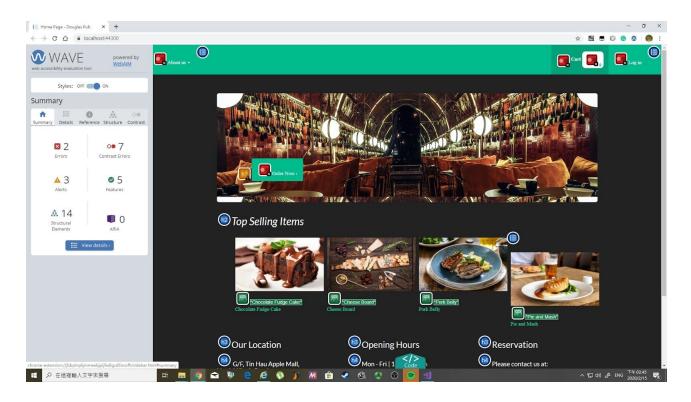


Internet Explorer



Firefox

6. Tested with the WAI guidelines



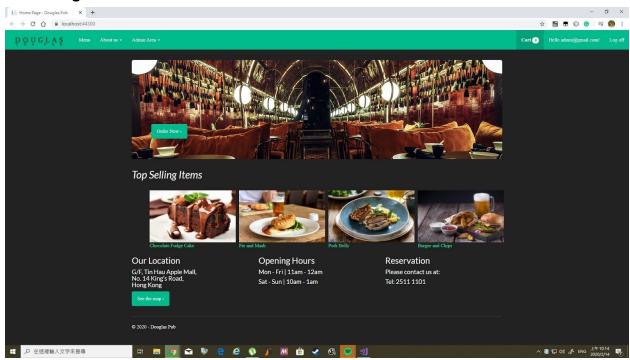
- The application follows some key features of the W3C Web Accessibility Initiative (WAI) Guidelines and tested with WAVE web accessibility evaluation tool.
- According to the Hong Kong Office of the Government Chief Information Officer, the websites need to be accessible due to social responsibility, legal responsibility "The Disability Discrimination Ordinance (Cap 487)", access to hidden markets, rank more prominently in search result and lower costs.
- The results showed that this web application implements the key features of the web accessibility guidelines including linked image with alternative text, using structural elements and form label. However, there are contrast errors for the low contrast of the navigation bar and the order now button.

7. Application fact sheet:

Key Features:

- 1) The application follows the W3C Web Accessibility Initiative (WAI) Guidelines and tested with multiple browsers such as Chrome, Firefox and IE.
- 2) The database is initialized for the first run of the application. This project is using Entity Framework Code-First approach. Therefore, limited SQL is required. Security features such as using @Html.AntiForgeryToken() to protect the application against cross-site request forgery.
- 3) The homepage will automatically shows top-selling items for customers to place an order quickly.
- 4) The administrator can manage users, shop items and orders. Customers can place, review and modify foods and drinks order.
- 5) RESTful API allows the admin user to access and manipulate database items and orders.

Home Page



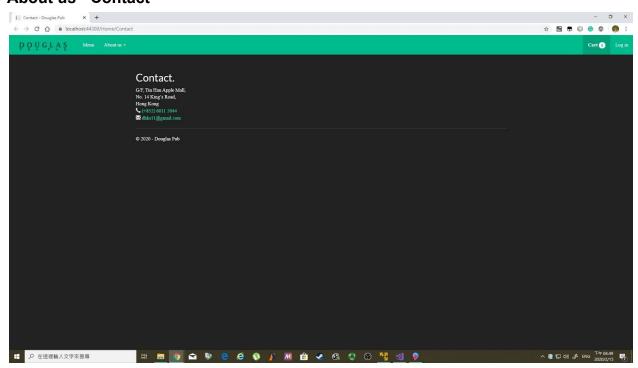
• This home page shows useful information about the pub's location, opening hours and reservation contact number. Users can start to order the foods by clicking the Order Now button, Menu or choose from the auto-generated top-selling items.

About us - Our Story



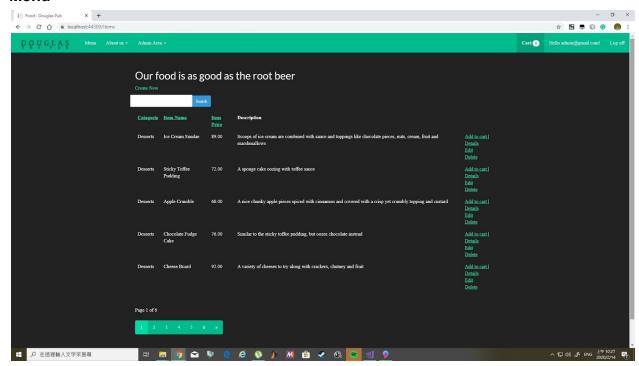
• This page shows the story and basic information about the pub.

About us - Contact

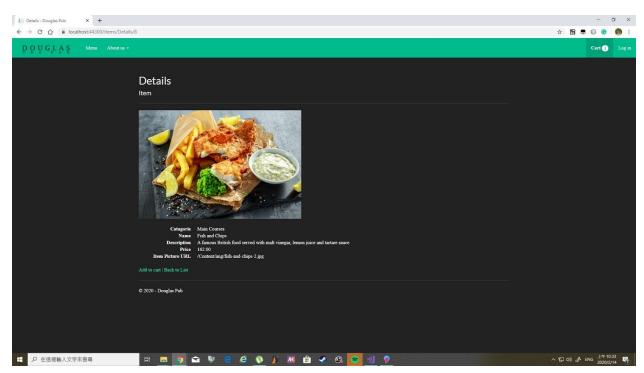


• The contact page provides information for customers if they have any queries.

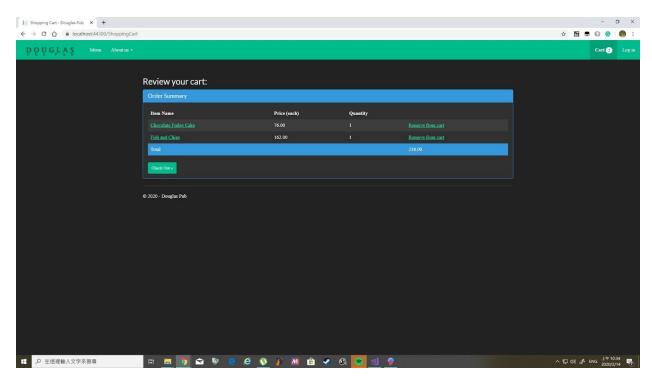
Menu



• Customers can search for specific items and categories by using the search bar at the top or navigate by clicking the page numbers at the bottom in order to select the foods.

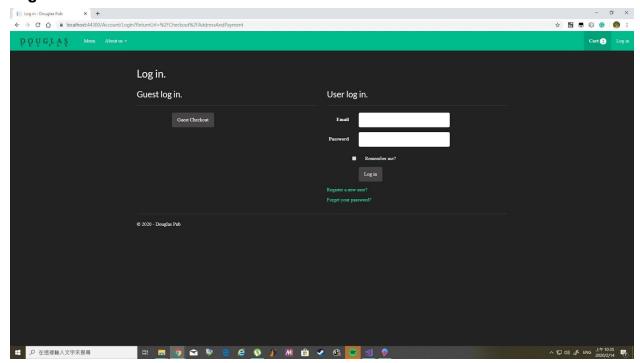


• Customers can view the details or click add to cart of the specific item.

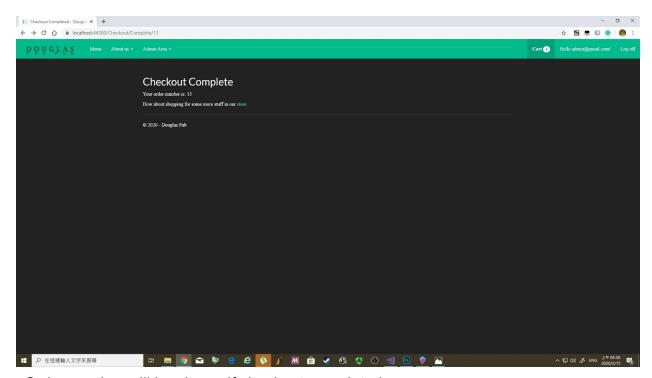


• Then customers can check out or modify the order before check out.

Log in

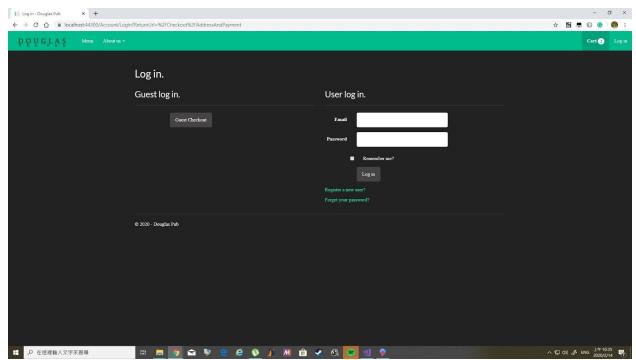


• Customers need to log in the account or just use the guest checkout. They need to fill in basic information then submit order. It is using @Html.AntiForgeryToken() security feature to protect the application against cross-site request forgery.

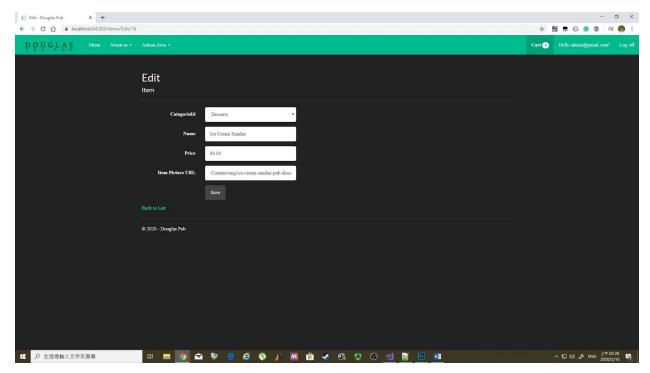


• Order number will be shown if checkout completed.

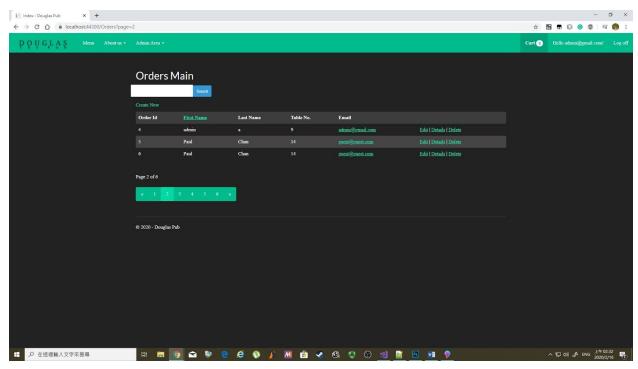
Administrator



• The administrator can log in by using Email: "admin@gmail.com" and Password: "Admin@123".

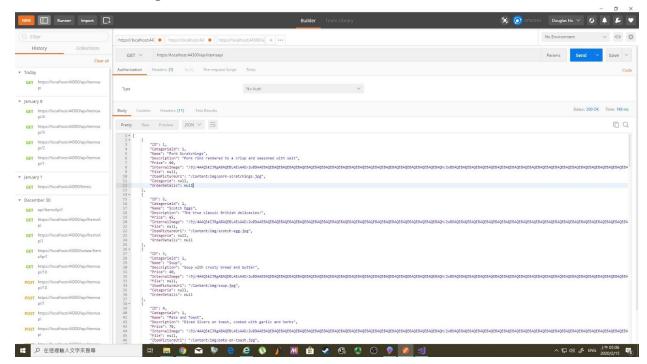


• The administrator can create/edit items in the Menu page.



- The Admin Area provides information of the Orders, Sales and Categories. The administrator can also control the user account and roles.
- Users can click the user name on the top right-hand corner for changing their password.

RESTful API testing



• RESTful API Middleware is tested with Postman for GET/PUT/POST/DELETE.

For Items

https://localhost:44300/api/itemsapi

For Orders

https://localhost:44300/api/ordersapi

Reference links for the application:

Web Accessibility Handbook:

https://www.ogcio.gov.hk/en/our_work/community/web_mobileapp_accessibility/promulgating_resources/handbook/

The W3C Web Accessibility Initiative (WAI) Guidelines https://www.w3.org/WAI/

The W3C Web Content Accessibility Guidelines (WCAG): https://www.w3.org/WAI/standards-guidelines/wcag/

The ASP.NET MVC 3 music store:

https://docs.microsoft.com/en-us/aspnet/mvc/overview/older-versions/mvc-music-store/mvc-music-store-part-1

CSS framework Bootstrap:

https://bootswatch.com/3/

The pictures used in the application:

Home image:

https://www.mott32.com/home

Food images:

https://britishgrubhub.com/british-pub-food/