

CAB230

ASSIGNMENT 1 – CLIENT SIDE

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Introduction

Client-Side Implementation Summary		
Item Number	Item Description	Implementation Level
1	Home page	Implemented
2	Register page	Implemented
3	Registration function	Implemented
4	Login page	Implemented
5	Login function	Implemented
7	Offence page	Implemented
8	Display list of offences in a dropdown button	Implemented
9	Search page	Implemented
10	Search for offences	Implemented
11	Display result in table	Implemented
12	Display result in graph	Implemented
13	Display result in map	Partially implemented
14	In-page filtering (areas, ages, genders and years)	Partially implemented

Technical description

React

The project is built base on ReactJS

Styling and layout

Most of the project is based on CSS but I also use packages for tables, chart and map.

Authentication

Register

User can register using register form with email (must include @) and password. The user information is then saved into mySQL database.

Login

User can login using login form with recorded email and password (not shown password). If the user information is matched with the database, user will then be assigned a token, so they can use Search page.

JSON web token

Token is stored in cookies and being use across the project at a time.

Navigation bar

Offences

Show a list of offences.

Search

User can search offences and result display the offence areas, total of the offence, latitude and longitude.

Tables

The result is displayed in sortable table using smart data table package.

Chart

The result is displayed in chart using Rechart package.

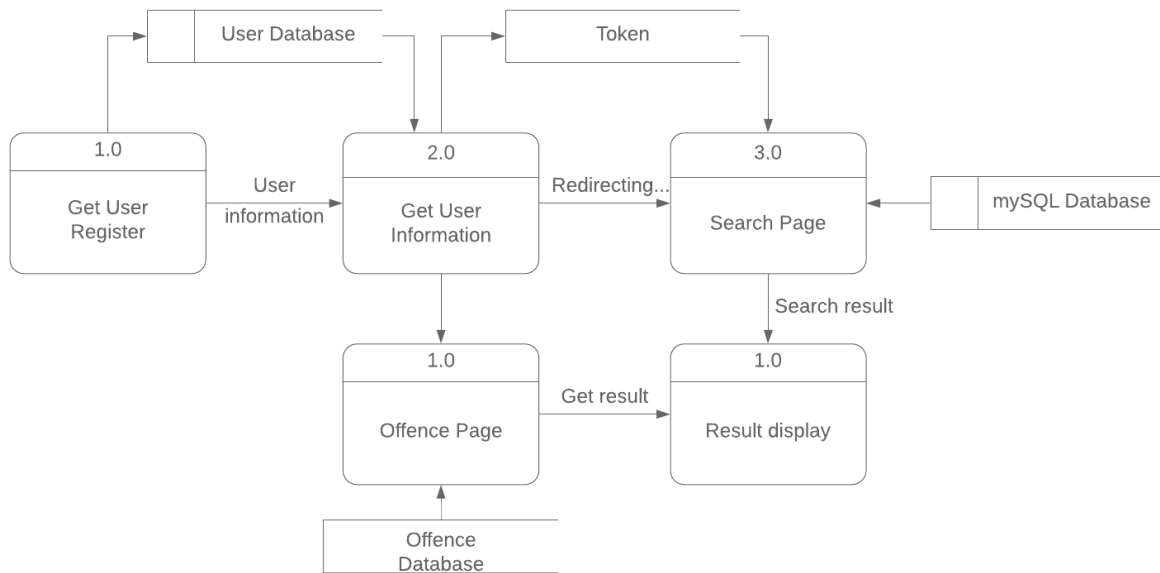
Map

The result is displayed in map using Leaflet package.

Data flow

According to the diagram below, when user register, the information is recorded by mySQL database and used for login. Token is being assigned every time user is logging in and they can now access search page. When user input their search, the data is being accessed from mySQL database (grabbing offences, areas, ages, genders, age and months).

(Hogan, 2019)



Technical issues (problems)

- Token is not being kept global, so I can't access to it at first via login (problem solved)
- Advance search implementation is not working as the input is not being taken and assign to the global variable.
- Map is not showing image.

Testing and limitations

Register

Action	Effect	Result
1. Access to https://localhost	Open the website	PASS
2. Click on register in menu	Display register form	PASS
3. Input email	Email contain @	PASS
4. Input password	Password is not shown	PASS
5. Click register button	Display message register successfully	PASS
6. Click register button again	Display message user already exist	PASS

Login

Action	Effect	Result
1. Access to https://localhost	Open the website	PASS
2. Click on login in menu	Display login form	PASS
3. Input email	Email contain @	PASS
4. Input password	Password is not shown	PASS
5. Click login button	Display message if success or fail to login	PASS

- After login, user will be redirecting to Search Page

Offence

Action	Effect	Result
1. Access to https://localhost	Open the website	PASS
2. Click on offence in menu	Display a list of offences	PASS

- Offence page is accessible without login

Search

Action	Effect	Result
Click on Search in menu tab	Open search page	PASS
Choose offence	User can choose a specific offence	PASS
Click on search button	Display result in table	PASS
Click on chart tab	Display result in chart	PASS
Click on map tab	Display result in map	PASS
Choose age	User can choose a specific age	PASS
Choose area	User can choose a specific area	PASS
Choose gender	User can choose a specific gender	PASS
Choose year	User can choose a specific year	PASS
Click on filter button	Filter the result based on user input	FAIL

- User is being redirecting to Search Page after login

References

Hogan, J., (2019). CAB230 Client-Side Spec. Retrieved from

https://blackboard.qut.edu.au/bbcswebdav/pid-7933578-dt-content-rid-23653060_1/xid-23653060_1 [Accessed 2 June 2019]

Appendix

User guide

1. User install Visual Studio Code
2. User download client-side zip file
3. User install packages:

```
-   "bootstrap": "^4.3.1",  
-   "install": "^0.12.2",  
-   "leaflet": "^1.5.1",  
-   "react": "^16.8.6",  
-   "react-bootstrap": "^1.0.0-beta.8",  
-   "react-bootstrap-dropdown": "^0.3.0",  
-   "react-bootstrap-dropdown-menu": "^1.1.15",  
-   "react-cookie": "^4.0.0",  
-   "react-dom": "^16.8.6",  
-   "react-router-dom": "5.0.0",  
-   "react-scripts": "2.1.8",  
-   "react-smart-data-table": "^0.7.0",  
-   "react-tabs": "^3.0.0",  
-   "recharts": "^1.6.2"
```

4. User type npm start in the terminal