

CAB230

ASSIGNMENT 1 – SERVER SIDE

DUE: 31 MAY 2019

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6-1-2019

Table of Contents

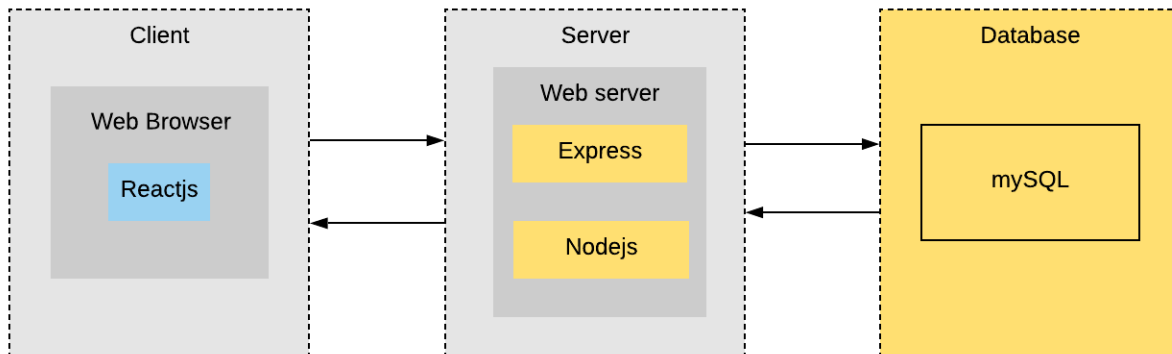
Introduction	2
Technical description	3
Application architecture	3
Middleware	3
Technical issues (problems)	3
Security	3
Test cases	4
Authentication	4
Endpoints	4
Swagger docs	4
Security	4
References	5
Appendix	6
Installation guides	6
Test cases	6
Authentication	6
Endpoints	8
Swagger docs	10
Interact with Swagger docs	14
Security	16

Introduction

Server-Side Implementation Summary			
ID	Function Description		Implementation Level
1	Endpoints	Register (POST)	Implemented
2		Login (POST)	Implemented
3		Search (GET)	Implemented
4		Offences (GET)	Implemented
5		Areas (GET)	Implemented
6		Ages (GET)	Implemented
7		Genders (GET)	Implemented
8		Years (GET)	Implemented
9	Hash + Authentication	Register	Implemented
10		Login	Implemented
11		Search	Implemented
12	Security	Certificate (HTTPS)	Implemented
13		Helmet (Content Security Policy component)	Implemented
14	Logging	Logger	Implemented
15	Middleware + Database connectivity	Express – Routes Knex Etc.	Implemented
16	Appropriate error handling and responses		Implemented
17	Swagger docs		Implemented

Technical description

Application architecture



React and Node.js is a very useful framework to manage client as well as the server-side. In server-side case, it can manage the server-side and database effectively (Existek, 2018).

Middleware

Middleware is a bridge between database and application, in this case, a connection between MySQL database and the user server. There is several middleware is used in this project:

- Express act as a database connection, routers.
- Knex – a simpler way to create and manage DB connectivity.
- Logging (dev and common) – used to track activities happen in requests as well as add headers to the processed token.

(Hogan, 2019)

Technical issues (problems)

- Advance search couldn't filter out any offence name that contain & and / (e.g. Kidnapping & Abduction etc.)

Security

Security is a very crucial part for setting up the server-side. At first, the server is running on HTTP server, which according to Jim: "it's obviously undermines security" (Hogan, 2019). In order to improve the security, I use Helmet package, which provides some standard security measures. According to Jim, Helmet ensures that the HSTS or Strict Transport Security header is shown. After implementing helmet, I can use <http://localhost> and not <http://localhost:3000> (Hogan, 2019).

Next step is to implement certification for the project. I redirect the server to port 80 (not 3000 as before) and assign the SSL certificate to Google Chrome. After finish implementing security to the project, my server-side is now running on <https://localhost> (Hogan, 2019).

Test cases

Authentication

Test the authentication of register, login and search on Postman app

/register should allow user to register email and password using <https://localhost/register> link. New user account will be recorded in MySQL database with hashed password.

User can test different responses status using email and password (Details are included in appendix test cases)

- 201 – user successfully registered
- 400 – user already exists

/login should allow user to enter email and password using <https://localhost/login> link. User can login using recorded email and password.

User can test different responses status using email and password (Detail test cases are included in appendix test cases)

- 200 – user successfully login
- 400 – invalid password

/search should allow user to search different parameters (offences, areas, ages, genders, years and months) using, for example, <https://localhost/search?offence=arson>. User can test different responses status using different parameters (Detail test cases are included in appendix test cases)

- 200 – result display
- 400 – missing parameters query param
- 401 – if user haven't login and have a token

Endpoints

Endpoints such as **register, login and search** should show swagger docs and other such as **offences, areas, ages, genders and years**, should show a list of those mentioned results (Detail test cases are included in appendix test cases).

Swagger docs

Swagger docs should mimic exactly from <https://cab230.hackhouse.sh/docs#/>. From display layout to responses.

Security

User should access <https://localhost/> and not <http://localhost:3000>.

*****IMPORTANT: Details of test cases are included in Appendix Test Cases**

References

- Existek, (2018). Web Application Architecture. Retrieved from <https://existek.com/blog/web-application-architecture/> [Accessed on 2 June 2018]
- Hogan, J., (2019). CAB230 Web Computing Assignment Server-Side Specification. Retrieved from https://blackboard.qut.edu.au/bbcswebdav/pid-7956819-dt-content-rid-24079911_1/xid-24079911_1 [Accessed on 2 June 19]
- Hogan, J., (2019). Prac 8 Guide. Retrieved from https://blackboard.qut.edu.au/bbcswebdav/pid-7944079-dt-content-rid-23898272_1/xid-23898272_1 [Accessed on 2 June 19]
- Hogan, J., (2019). Prac 9 Guide. Retrieved from https://blackboard.qut.edu.au/bbcswebdav/pid-7953922-dt-content-rid-24363716_1/xid-24363716_1 [Accessed on 2 June 19]
- Hogan, J., (2019). Prac 10 Guide. Retrieved from https://blackboard.qut.edu.au/bbcswebdav/pid-7961405-dt-content-rid-24299892_1/xid-24299892_1 [Accessed on 2 June 19]

Appendix

Installation guides

1. Download Server-Side zip file
2. Open the Server-side file
3. Open terminal and type npm install
4. Npm install packages:
 - Bcrypt
 - Cookie-parser
 - Cors
 - Debus
 - Express
 - Helmet
 - http-errors
 - jade / pug
 - jsonwebtoken
 - knex
 - morgan
 - swagger-ui-express
 - build
5. Type npm start to start the server

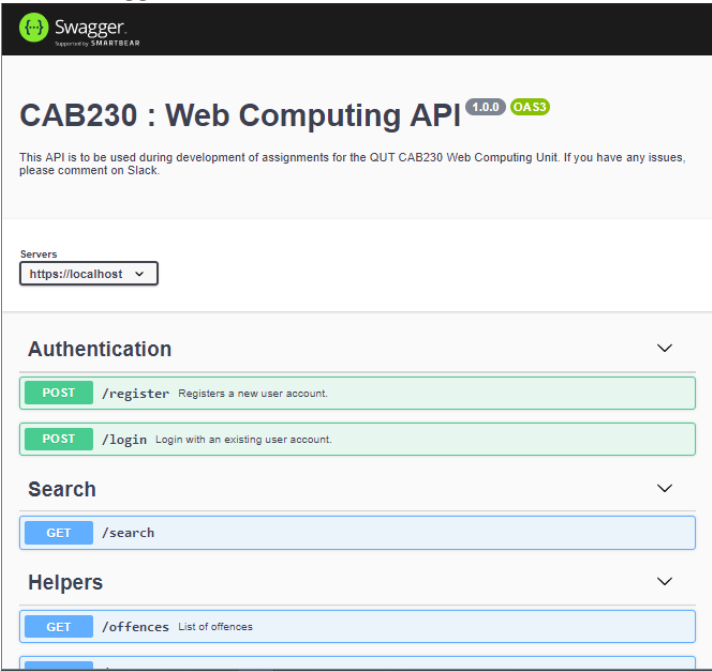
Test cases

Authentication

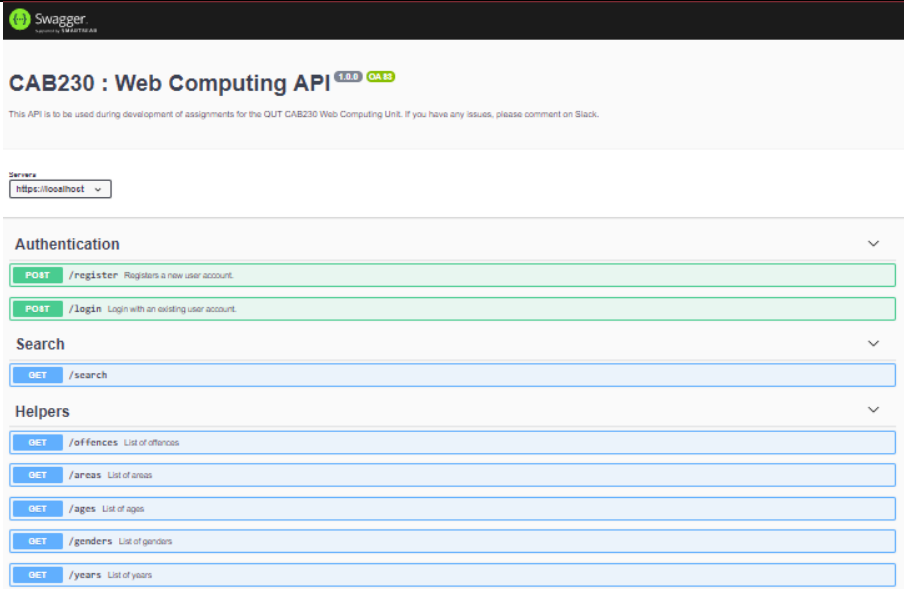
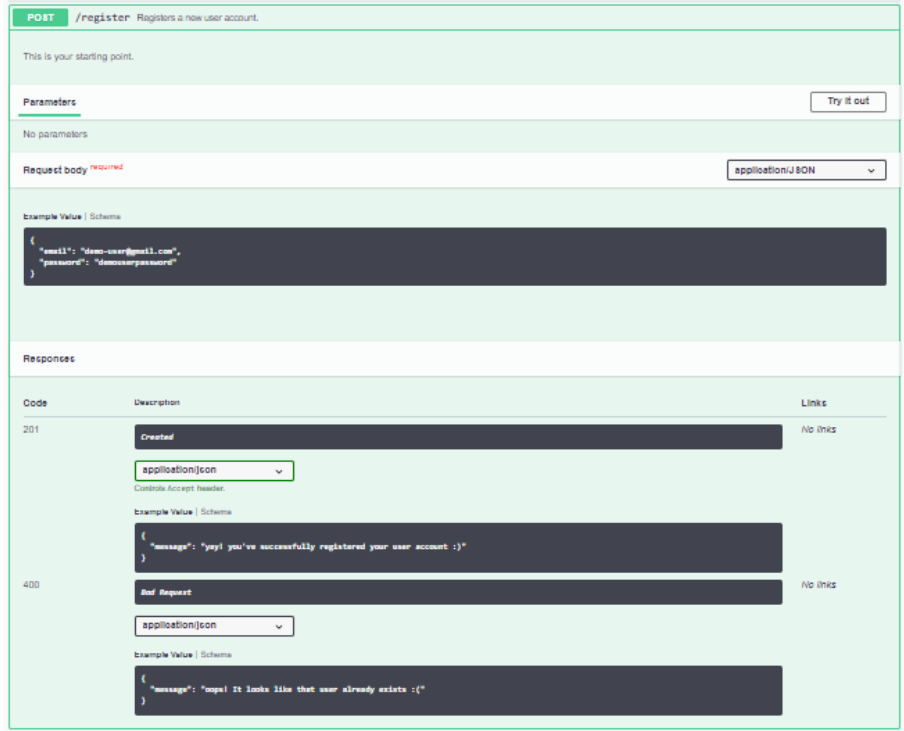
Steps	Expected result	Pass or Fail
1. Open postman app		
2. Access to https://localhost/register with POST request 3. On headers tab, add authorization and value token. 4. Enter key email and password 5. Enter value email and password 6. Click sent button	Code 201 – Created (Check mySQL users table to see new user account) <pre>{ "message": "yay! you've successfully registered your user account :)"}</pre>	PASS
7. Enter wrong value for email/password 8. Click sent button	Code 400 - Display error message user is already existing <pre>{ "message": "oops! It looks like that user already exists : ("}</pre>	PASS
1. Access to https://localhost/search?offence=arson	Code 401 – Unauthorisation <pre>{ "message": "oh no! it looks like your authorization token is invalid..."}</pre>	
1. Access to https://localhost/login with POST request 2. Enter key email and password 3. Enter value email and password 4. Click sent button	Code 200 – OK	PASS

	<pre>{ "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyIjp7ImkiOiJo1Nzg2Lj1hWmFpbCI6ImR1bW8xMjM0Q", "token_type": "Bearer", "expires_in": 86400 }</pre>	
5. Enter wrong value email/password 6. Click sent button	Code 401 – Bad Request <pre>{ "message": "invalid login - bad password" }</pre>	PASS
1. Access to https://localhost/search?offence=arson	Code 200 - OK <pre>{ "query": { "offence": "Homicide (Murder)" }, "result": [{ "LGA": "Aurukun Shire Council", "total": 4, "lat": -27.470812, "lng": 153.022455 }] }</pre>	PASS
2. Access to https://localhost/search?offence=	Code 400 – Bad Request <pre>{ "message": "oops! it looks like you're missing the offence query param" }</pre>	

Endpoints

Steps	Expected result	Pass or Fail
1. Open Google Chrome		
2. Access to https://localhost/	Show Swagger docs	PASS
3. Access to https://localhost/register	Show Swagger docs 	PASS
4. Access to https://localhost/login		PASS
5. Access to https://localhost/search?	Code 401 – Unauthorisation message <pre>{ "error": true, "message": "oops! it looks like you're missing the authorization header" }</pre>	PASS
6. Access to https://localhost/offences	Display a list of offences from mysql database <pre>{ "offences": ["Advertising Prostitution", "Armed Robbery", "Arson", "Assault", "Attempted Murder", "Bomb Possess and/or use of", "Breach Domestic Violence Protection Order", "Common Assault", "Conspiracy to Murder", "Dangerous Operation of a Vehicle", "Disobey Move-on Direction", "Disqualified Driving", "Drink Driving", "Driving Causing Death", "Drug Offences", "Extortion", "Fare Evasion", "Found in Places Used for Purpose of Prostitution Offences", "Fraud", "Fraud by Cheque", "Fraud by Computer", "Fraud by Credit Card", "Gaming Racing & Betting Offences", "Good Order Offences", "Grievous Assault", "Handling Stolen Goods", "Have Interest in Premises Used for Prostitution Offences", "Homicide (Murder)", "Identity Fraud", "Interfere with Mechanism of Motor Vehicle", "Kidnapping & Abduction etc.", "Knowingly Participate in Provision Prostitution Offences", "Life Endangering Acts", "Liquor (excl. Drunkenness)", "Manslaughter (excl. by driving)", "Manslaughter Unlawful Striking Causing Death", "Miscellaneous Offences", "Offences Against Property", "Offences Against the Person", "Other Drug Offences", "Other Fraud", "Other Handling Stolen Goods", "Other Homicide", "Other Offences", "Other Offences Against the Person", "Other Property Damage", "Other Prostitution Offences", "Other Sexual Offences", "Other Stealing", "Other Theft (excl. Unlawful Entry)", "Permit Minor to be at a Place Used for Prostitution Offences", "Possess and/or use other weapons; restricted items", "Possess Drugs", "Possess etc. Tainted Property", "Possess Property Suspected Stolen", "Procuring Prostitution", "Produce Drugs", "Prostitution Offences", "Public Nuisance", "Public Soliciting", "Rape and Attempted Rape", "Receiving Stolen Property", "Resist Incite Hinder Obstruct Police", "Robbery", "Sell Supply Drugs", "Serious Assault", "Serious Assault (Other)", "Sexual Offences", "Shop Stealing", "Stalking", "Stealing from Dwellings", "Stock Related Offences", "Traffic and Related Offences", "Trafficking Drugs", "Trespassing and Vagrancy", "Unarmed Robbery", "Unlawful Entry", "Unlawful Entry With Intent - Dwelling", "Unlawful Entry With Intent - Other", "Unlawful Entry With Intent - Shop", "Unlawful Entry With Violence - Dwelling", "Unlawful Entry Without Violence - Dwelling", "Unlawful Possess Concealable Firearm", "Unlawful Possess Firearm - Other", "Unlawful Use of Motor Vehicle", "Vehicles (steal from/enter with intent)", "Weapons Act Offences", "Weapons Act Offences - Other"] }</pre>	PASS
7. Access to https://localhost/areas	Display a list of areas from mysql database	PASS

	<pre>{ "areas": ["Aurukun Shire Council", "Balonne Shire Council", "Banana Shire Council", "Barcaldine Regional Council", "Barcoo Shire Council", "Blackall Tambo Regional Council", "Boulia Shire Council", "Brisbane City Council", "Bulloo Shire Council", "Bundaberg Regional Council", "Burdekin Shire Council", "Burke Shire Council", "Cairns Regional Council", "Carpentaria Shire Council", "Cassowary Coast Regional Council", "Central Highlands Regional Council", "Charters Towers Regional Council", "Cherbourg Shire Council", "Cloncurry Shire Council", "Cook Shire Council", "Croydon Shire Council", "Diamantina Shire Council", "Doomadgee Shire Council", "Douglas Shire Council", "Etheridge Shire Council", "Flinders Shire Council", "Fraser Coast Regional Council", "Gladstone Regional Council", "Gold Coast City Council", "Goondiwindi Regional Council", "Gympie Regional Council", "Hinchinbrook Shire Council", "Hope Vale Shire Council", "Ipswich City Council", "Isaac Regional Council", "Kowanyama Shire Council", "Livingstone Shire Council", "Lockhart River Shire Council", "Lockyer Valley Regional Council", "Logan City Council", "Longreach Regional Council", "Mackay Regional Council", "Mapoon Shire Council", "Maranoa Regional Council", "Mareeba Shire Council", "McKinlay Shire Council", "Moreton Bay Regional Council", "Morningside Shire Council", "Mount Isa City Council", "Murweh Shire Council", "Napranum Shire Council", "Noosa Shire Council", "North Burnett Regional Council", "Northern Peninsula Area Regional Council", "Palm Island Shire Council", "Paroo Shire Council", "Pormpuraaw Shire Council", "Quilpie Shire Council", "Redland City Council", "Richmond Shire Council", "Rockhampton Regional Council", "Scenic Rim Regional Council", "Somerset Regional Council", "South Burnett Regional Council", "Southern Downs Regional Council", "Sunshine Coast Regional Council", "Tablelands Regional Council", "Toowoomba Regional Council", "Torres Shire Council", "Torres Strait Island Regional Council", "Townsville City Council", "Weipa Town Council", "Western Downs Regional Council", "Whitsunday Regional Council", "Winton Shire Council", "Woorabinda Shire Council", "Wujal Wujal Shire Council", "Yarrabah Shire Council"] }</pre>	
8. Access to https://localhost/ages	<p>Display a list of ages from mysql database</p> <pre>{ "ages": ["Adult", "Juvenile"] }</pre>	PASS
9. Access to https://localhost/genders	<p>Display a list of genders from mysql database</p> <pre>{ "genders": ["Female", "Male", "Not Stated"] }</pre>	PASS
10. Access to https://localhost/years	<p>Display a list of years from mysql database</p> <pre>{ "years": [2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019] }</pre>	PASS

Action	Expected result	Pass or Fail
1. Access to https://localhost/		PASS
2. Click on /register		PASS

3. Click on /login

[illegible]

PASS

4. Click on /search

GET

/search

Search for Offence data

Parameters

Try it out

Name	Description
offence <small>* required</small> string <small>(query)</small>	Name of the Offence to search for
area string <small>(query)</small>	List of comma-separated Areas (LGAs) to filter search results by
age string <small>(query)</small>	List of comma-separated Ages to filter search results by
gender string <small>(query)</small>	List of comma-separated Genders to filter search results by
year integer <small>(query)</small>	List of comma-separated Years to filter search results by
month integer <small>(query)</small>	List of comma-separated Months to filter search results by (1-12)

Responses

Code	Description	Links
200	<div><div>OK</div><div>application/json</div></div>	No links

PASS

	<div><div>Example Value Schema</div><div><pre>{ "query": { "offence": "Homicide (Murder)" }, "result": { { "LGA": "Barron Shire Council", "total": 4, "lat": -27.479812, "lng": 153.823405 } } }</pre></div><div>400</div><div>Send Request</div><div>No links</div><div>application/json</div><div>Example Value Schema</div><div><pre>{ "message": "oops! it looks like you're missing the offence query param" }</pre></div><div>401</div><div>Unauthorized</div><div>No links</div><div>application/json</div><div>Example Value Schema</div><div><pre>{ "message": "oh no! it looks like your authorization token is invalid..." }</pre></div></div> <tr><td>5. Click on /offences</td><td><div><div>GET /offences List of offences</div><div>Full listing of offences</div><div>Parameters</div><div>Try it out</div><div>No parameters</div><div>Responses</div><table><tr><th>Code</th><th>Description</th><th>Links</th></tr><tr><td>200</td><td><div>or</div><div>application/json</div><div>Controls Accept header.</div><div>Example Value Schema</div><div><pre>{ "offences": ["Advertising Prostitution", "Armed Robbery"] }</pre></div></td><td>No links</td></tr></table></div><tr><td>6. Click on /areas</td><td><div><div>GET /areas List of areas</div><div>Full listing of areas</div><div>Parameters</div><div>Try it out</div><div>No parameters</div><div>Responses</div><table><tr><th>Code</th><th>Description</th><th>Links</th></tr><tr><td>200</td><td><div>or</div><div>application/json</div><div>Controls Accept header.</div><div>Example Value Schema</div><div><pre>{ "areas": ["Barron Shire Council", "Belconnen Shire Council"] }</pre></div></td><td>No links</td></tr></table></div><tr><td></td><td>PASS</td></tr><tr><td></td><td>PASS</td></tr></td></tr></td></tr>	5. Click on /offences	<div><div>GET /offences List of offences</div><div>Full listing of offences</div><div>Parameters</div><div>Try it out</div><div>No parameters</div><div>Responses</div><table><tr><th>Code</th><th>Description</th><th>Links</th></tr><tr><td>200</td><td><div>or</div><div>application/json</div><div>Controls Accept header.</div><div>Example Value Schema</div><div><pre>{ "offences": ["Advertising Prostitution", "Armed Robbery"] }</pre></div></td><td>No links</td></tr></table></div> <tr><td>6. Click on /areas</td><td><div><div>GET /areas List of areas</div><div>Full listing of areas</div><div>Parameters</div><div>Try it out</div><div>No parameters</div><div>Responses</div><table><tr><th>Code</th><th>Description</th><th>Links</th></tr><tr><td>200</td><td><div>or</div><div>application/json</div><div>Controls Accept header.</div><div>Example Value Schema</div><div><pre>{ "areas": ["Barron Shire Council", "Belconnen Shire Council"] }</pre></div></td><td>No links</td></tr></table></div><tr><td></td><td>PASS</td></tr><tr><td></td><td>PASS</td></tr></td></tr>	Code	Description	Links	200	<div>or</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "offences": ["Advertising Prostitution", "Armed Robbery"] }</pre></div>	No links	6. Click on /areas	<div><div>GET /areas List of areas</div><div>Full listing of areas</div><div>Parameters</div><div>Try it out</div><div>No parameters</div><div>Responses</div><table><tr><th>Code</th><th>Description</th><th>Links</th></tr><tr><td>200</td><td><div>or</div><div>application/json</div><div>Controls Accept header.</div><div>Example Value Schema</div><div><pre>{ "areas": ["Barron Shire Council", "Belconnen Shire Council"] }</pre></div></td><td>No links</td></tr></table></div> <tr><td></td><td>PASS</td></tr> <tr><td></td><td>PASS</td></tr>	Code	Description	Links	200	<div>or</div> <div>application/json</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "areas": ["Barron Shire Council", "Belconnen Shire Council"] }</pre></div>	No links		PASS		PASS
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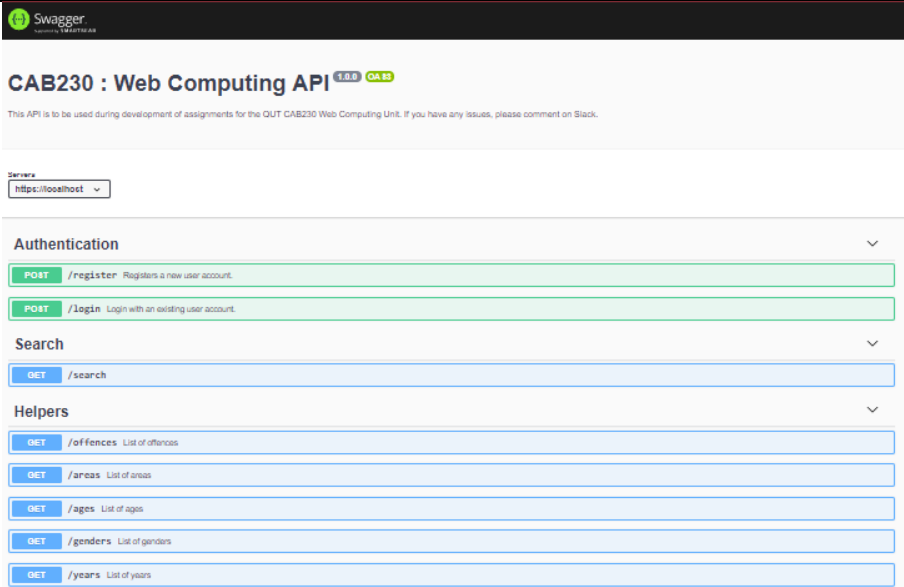
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Interact with Swagger docs

Action	Expected result	Pass or Fail
10. Access to https://localhost/register swagger doc 11. Click Try it out button. 12. Enter email and password 13. Click execute button	Display respond code - 201 <pre>{ "message": "yay! you've successfully registered your user account :)" }</pre> - 400 <pre>{ "message": "oops! It looks like that user already exists : (" }</pre>	PASS
1. Access to https://localhost/login swagger doc 2. Click Try it out button 3. Enter email and password 4. Click execute button	Executable and display respond code 200 if user information is correct <pre>{ "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VyIjp7Im1kIjo1Nzg2LCJlbWFnZW50Ij09IiwiaWF0Ij0iMTUzMTU0OTU0Lm085iKUAQ_h8n8-6pkeNNs5CCnV0G8hScxhi_m1_Q6c", "token_type": "Bearer", "expires_in": 86400 }</pre>	PASS
	Executable and display respond code 401 if user password is incorrect <pre>{ "message": "invalid login - bad password" }</pre>	PASS
1. Access to https://localhost/search? swagger doc 2. Click Try it out button without login 3. Enter offence: arson 4. Click execute button	Executable and display respond code 401 <pre>{ "message": "oh no! it looks like your authorization token is invalid..." }</pre>	PASS
1. Access to https://localhost/search? swagger doc 2. Logging in 3. Click Try it out button 4. Enter right offence and/or area and/or age and/or gender and/or year and/or month 5. Click execute button	Executable and display respond code 200 with the search input data <pre>{ "query": { "offence": "Homicide (Murder)" }, "result": [{ "LGA": "Aurukun Shire Council", "total": 4, "lat": -27.470812, "lng": 153.022455 }] }</pre> Example:	PASS
1. Access to https://localhost/search? swagger doc 2. Logging in 3. Click Try it out button	Executable and display respond code 400 <pre>{ "message": "oops! it looks like you're missing the offence query parm" }</pre>	PASS

4. Enter wrong offence and/or area and/or age and/or gender and/or year and/or month 5. Click execute button		
1. Access to https://localhost/docs 2. Click on helpers /offences 3. Click Try it out button 4. Click execute button	Executable and display responses message <ul style="list-style-type: none"> 200: "OK" - with response body, a list of offences, and response headers <pre> access-control-allow-origin: * content-length: 2400 content-security-policy: default-src * data: 'unsafe-eval' 'unsafe-inline' content-type: application/json; charset=utf-8 date: Sat, 01 Jun 2019 12:23:05 GMT etag: W/"960-04zLdTMUyLvNb4Bvz7naOH7ubZs" referrer-policy: no-referrer-when-downgrade server: nginx status: 304 strict-transport-security: max-age=15552000; includeSubDomains, max-age=31536000; includeSubDomains; preload x-content-type-options: nosniff, nosniff x-dns-prefetch-control: off x-download-options: noopen x-frame-options: SAMEORIGIN, SAMEORIGIN x-xss-protection: 1; mode=block, 1; mode=block </pre>	PASS
1. Access to https://localhost/docs 2. Click on helpers /areas 3. Click Try it out button 4. Click execute button	Executable and display responses message <ul style="list-style-type: none"> 200: "OK" - with response body, a list of areas, and response headers (similar to offences response headers) 	PASS
1. Access to https://localhost/docs 2. Click on helpers /ages 3. Click Try it out button 4. Click execute button	Executable and display responses message <ul style="list-style-type: none"> 200: "OK" - with response body, a list of ages, and response headers (similar to offences response headers) 	PASS
1. Access to https://localhost/docs 2. Click on helpers /genders 3. Click Try it out button 4. Click execute button	Executable and display responses message <ul style="list-style-type: none"> 200: "OK" - with response body, a list of genders, and response headers (similar to offences response headers) 	PASS
1. Access to https://localhost/docs 2. Click on helpers /years 3. Click Try it out button 4. Click execute button	Executable and display responses message <ul style="list-style-type: none"> 200: "OK" - with response body, a list of years, and response headers (similar to offences response headers) 	PASS

Security

Action	Expected result	Pass or Fail
Access to http://localhost:3000/	 <h3>This site can't be reached</h3> <p>localhost refused to connect.</p> <p>Try:</p> <ul style="list-style-type: none"> • Checking the connection • Checking the proxy and the firewall <p>ERR_CONNECTION_REFUSED</p> <p>Reload Details</p>	PASS
Access to https://localhost/		PASS

