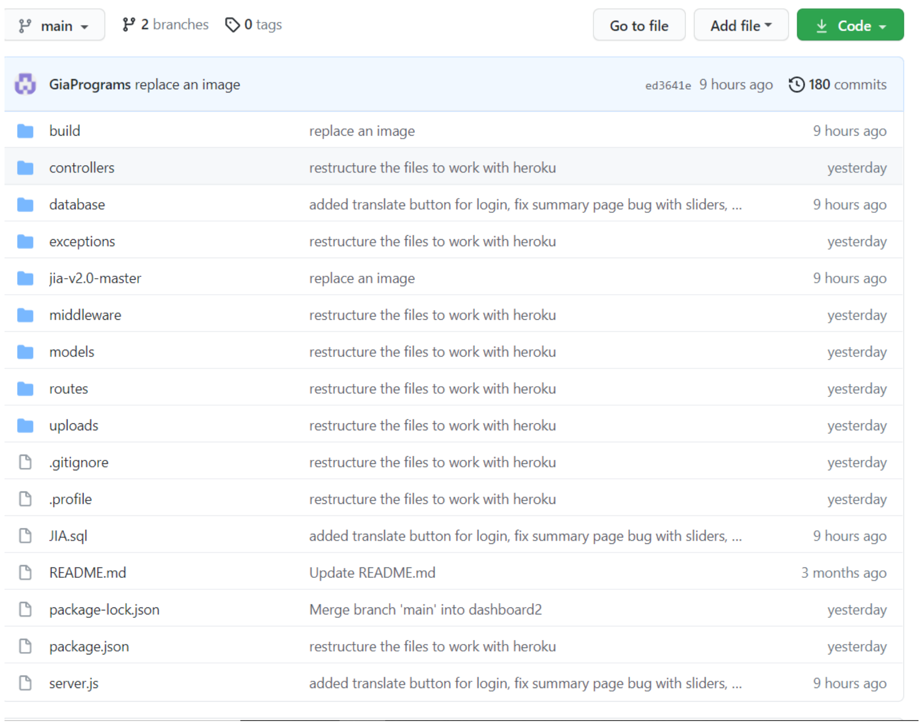
Resources

Below is the following software needed to run the project.

- Integrated development environment (IDE): Visual Studio Code, IntelliJ, Atom, etc.
- Local server environment: XAMPP, MAMP, etc.
- GitHub and Git
- Heroku

Acquiring the project

1. Click the following link to access the GitHub repository - https://github.com/GiaPrograms/Honour_Project

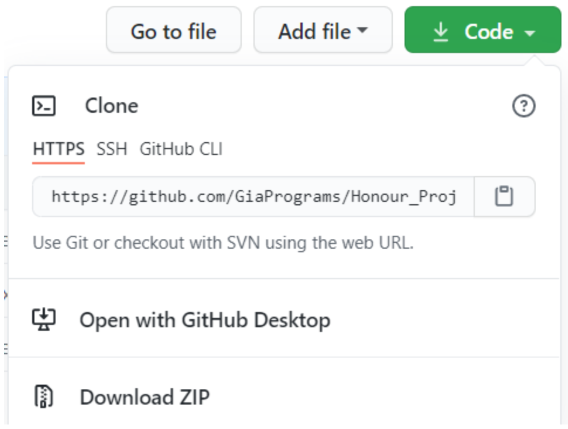


main · 2 branches · 0 tags · Go to file · Add file · Code

GiaPrograms replace an image · ed3641e 9 hours ago · 180 commits

build	replace an image	9 hours ago
controllers	restructure the files to work with heroku	yesterday
database	added translate button for login, fix summary page bug with sliders, ...	9 hours ago
exceptions	restructure the files to work with heroku	yesterday
jia-v2.0-master	replace an image	9 hours ago
middleware	restructure the files to work with heroku	yesterday
models	restructure the files to work with heroku	yesterday
routes	restructure the files to work with heroku	yesterday
uploads	restructure the files to work with heroku	yesterday
.gitignore	restructure the files to work with heroku	yesterday
.profile	restructure the files to work with heroku	yesterday
JIA.sql	added translate button for login, fix summary page bug with sliders, ...	9 hours ago
README.md	Update README.md	3 months ago
package-lock.json	Merge branch 'main' into dashboard2	yesterday
package.json	restructure the files to work with heroku	yesterday
server.js	added translate button for login, fix summary page bug with sliders, ...	9 hours ago

2. Click on the Code button and copy HTTPS link



Go to file · Add file · Code

Clone

HTTPS · SSH · GitHub CLI

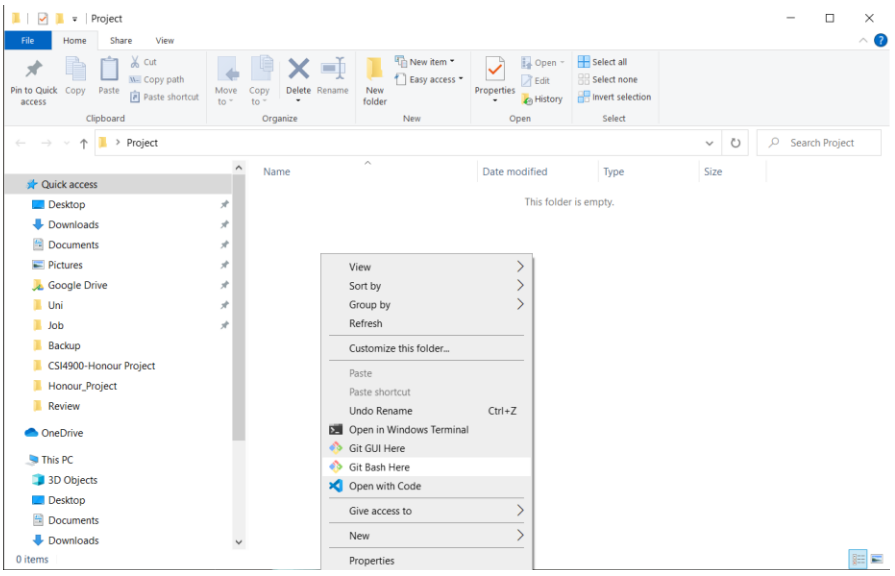
https://github.com/GiaPrograms/Honour_Proj

Use Git or checkout with SVN using the web URL.

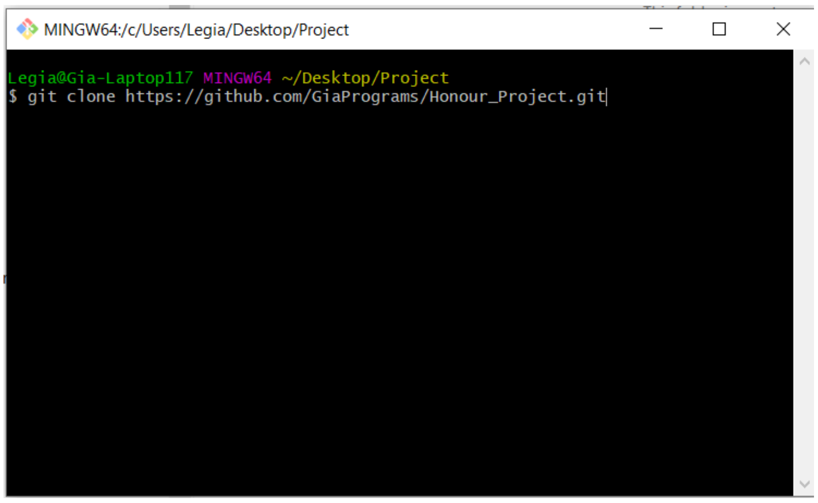
Open with GitHub Desktop

Download ZIP

3. Assuming git is downloaded, create a new folder the right clicks the folder and press “Git Bash Here”.

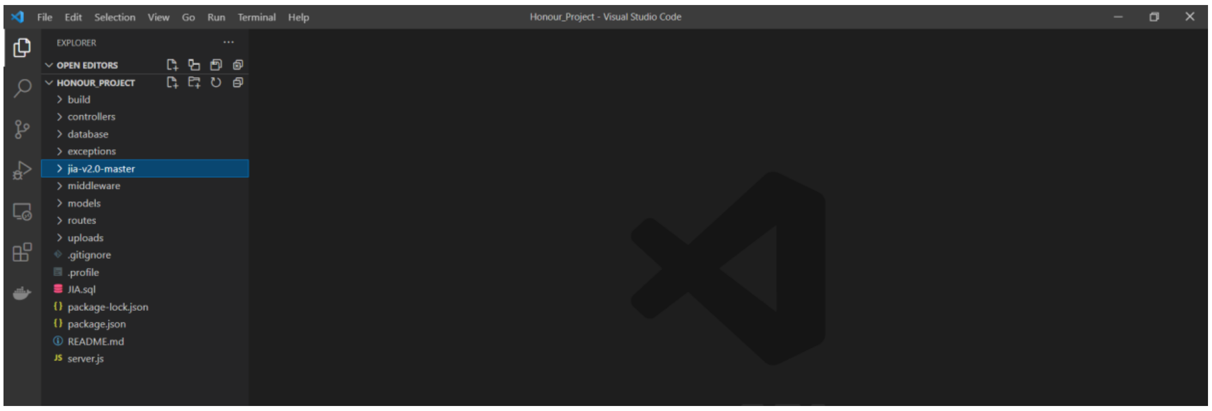


4. A git terminal will open. There you can add the following line “git clone” and the link provided by the GitHub repository.


MINGW64:/c/Users/Legia/Desktop/Project

```
Legia@Gia-Laptop117 MINGW64 ~/Desktop/Project
$ git clone https://github.com/GiaPrograms/Honour_Project.git
```

5. After entering the command, the project will be copy into the folder. From there you can access the project with the IDE of your choice.

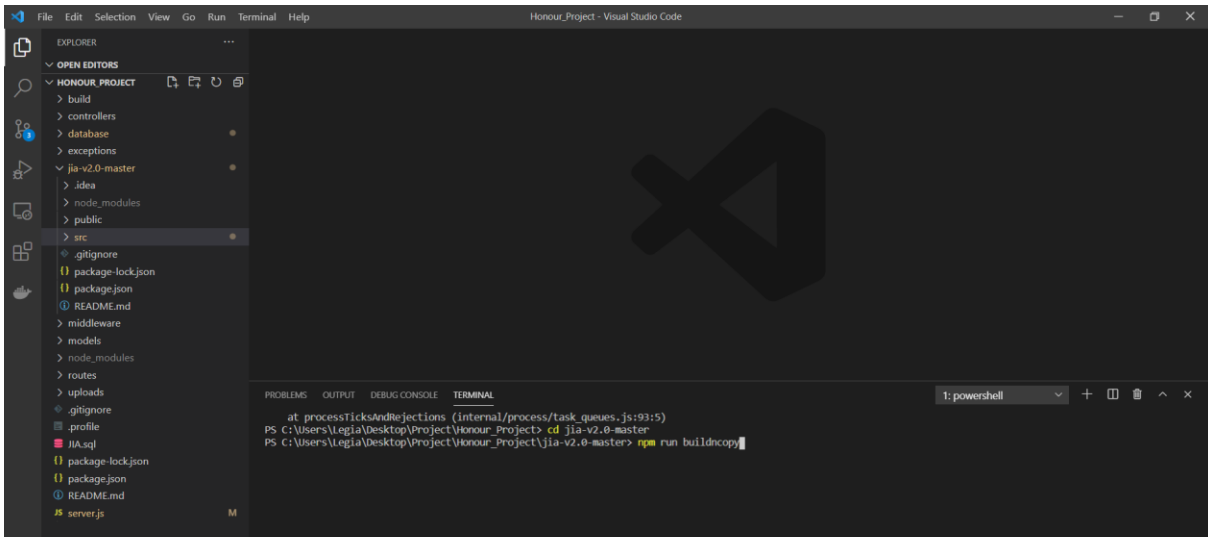


Web Application deployment

Setups for local database, global database, and client-side can be shown within this document. However, in terms of deployment with Heroku, many of these setups are not necessary for launching the website into the world wide web as these setups are only use if you want to run the web application locally. When deploying the web application, Heroku will be responsible in both hosting the web application and connecting the application to the global database.

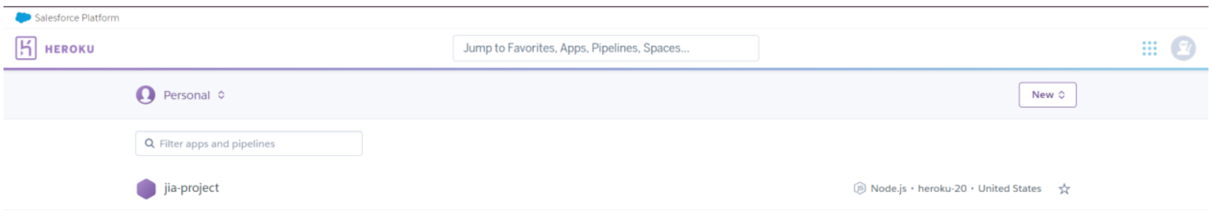
When testing the web application hosted by Heroku, if you want to edit the global database that is link to the hosted web application, follow the “Global Server-side” setup until you reach step 6. For any changes to both the backend and frontend of the program, if you want the changes to reflect in the hosted web application then make sure that you push your changes to the main branch of the GitHub repository as Heroku will view the main branch to check for changes to the web application.

Make sure when you edit the frontend of the program (jia-v2.0-master) that you write the command “npm run buildncopy”. As this command will create a production “build” folder in the backend of the program. This folder allows Heroku to create the visual of the web application that appears in the hosted web application.



```
    at processTicksAndRejections (internal/process/task_queues.js:93:5)
PS C:\Users\Legia\Desktop\Project\Honour_Project> cd jia-v2.0-master
PS C:\Users\Legia\Desktop\Project\Honour_Project\jia-v2.0-master> npm run buildncopy
```

Finally, after editing the application, you will need to relaunch the link so the hosted web application can be updated. This can be done by going to the Heroku website and go to the app “jia-project”.



Salesforce Platform

HEROKU

Jump to Favorites, Apps, Pipelines, Spaces...

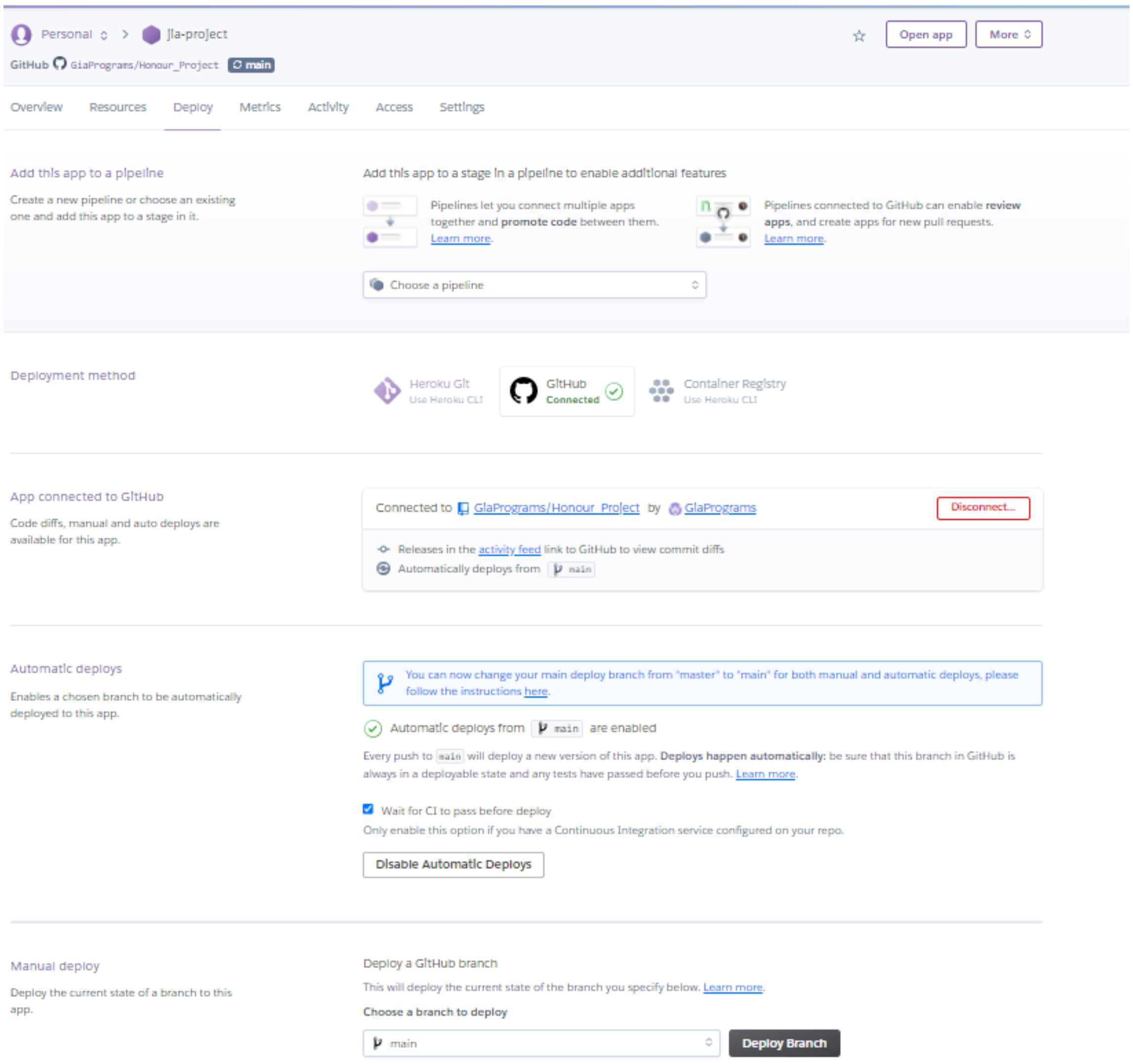
Personal

New

Filter apps and pipelines

jia-project — Node.js • heroku-20 • United States

Then go to the deploy tab, make sure that Heroku is link to the main branch in the GitHub repository, and click on the deploy branch. Heroku will build the web application and provide you the link to the hosted web application if you click on the “view” or “open app” button. Here is the following link to view the hosted web application: https://jia-project.herokuapp.com/



Personal > jia-project

GitHub GiaPrograms/Honour_Project main

Open app | More

Overview | Resources | Deploy | Metrics | Activity | Access | Settings

Add this app to a pipeline

Create a new pipeline or choose an existing one and add this app to a stage in it.

Add this app to a stage in a pipeline to enable additional features

Pipelines let you connect multiple apps together and **promote code** between them. Learn more.

Pipelines connected to GitHub can enable **review apps**, and create apps for new pull requests. Learn more.

Choose a pipeline

Deployment method

Heroku Git — Use Heroku CLI | GitHub — Connected | Container Registry — Use Heroku CLI

App connected to GitHub

Code diffs, manual and auto deploys are available for this app.

Connected to GiaPrograms/Honour_Project by GiaPrograms — Disconnect...

Releases in the activity feed link to GitHub to view commit diffs

Automatically deploys from main

Automatic deploys

Enables a chosen branch to be automatically deployed to this app.

You can now change your main deploy branch from "master" to "main" for both manual and automatic deploys, please follow the instructions here.

Automatic deploys from main are enabled

Every push to main will deploy a new version of this app. **Deploys happen automatically:** be sure that this branch in GitHub is always in a deployable state and any tests have passed before you push. Learn more.

[✓] Wait for CI to pass before deploy

Only enable this option if you have a Continuous Integration service configured on your repo.

Disable Automatic Deploys

Manual deploy

Deploy the current state of a branch to this app.

Deploy a GitHub branch

This will deploy the current state of the branch you specify below. Learn more.

Choose a branch to deploy

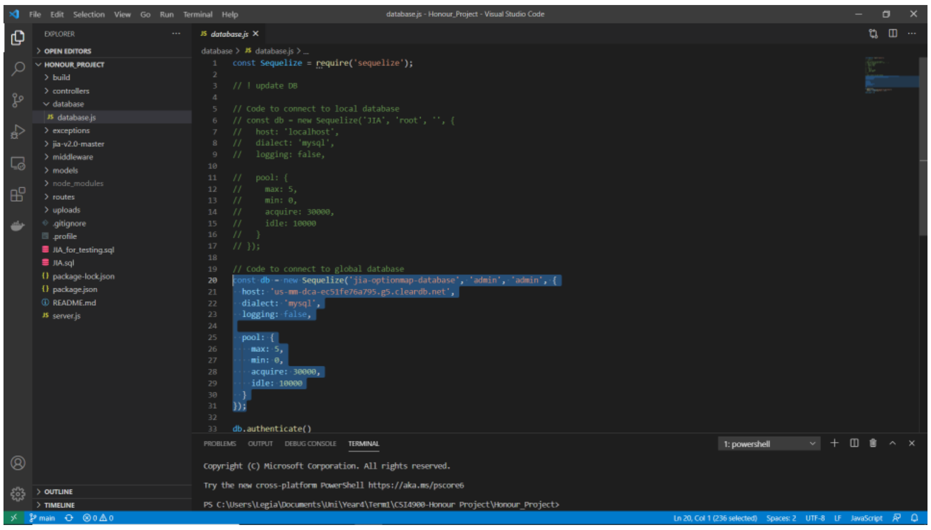
main — Deploy Branch

Global Server-side setup

Setting the project to link to the global database. **For this setup, I will use XAMMP and its functions to do the global server-side setup but feel free to use any other local server environment if you prefer a different environment over XAMMP.*

*Before running the global server-side, make sure codes that connect to the global database are uncommented and codes that connect to the local database are commented as shown in the following file.

database.js



```
const Sequelize = require('sequelize');

// ! update DB

// Code to connect to local database
// const db = new Sequelize('JIA', 'root', '', {
//   host: 'localhost',
//   dialect: 'mysql',
//   logging: false,

//   pool: {
//     max: 5,
//     min: 0,
//     acquire: 30000,
//     idle: 10000
//   }
// });

// Code to connect to global database
const db = new Sequelize('jia-optionmap-database', 'admin', 'admin', {
  host: 'us-mm-dca-ec51fe76a795.g5.cleardb.net',
  dialect: 'mysql',
  logging: false,

  pool: {
    max: 5,
    min: 0,
    acquire: 30000,
    idle: 10000
  }
});

db.authenticate()
```

```
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Legia\Documents\Uni\Year4\Term1\CSI4900-Honour Project\Honour_Project>
```
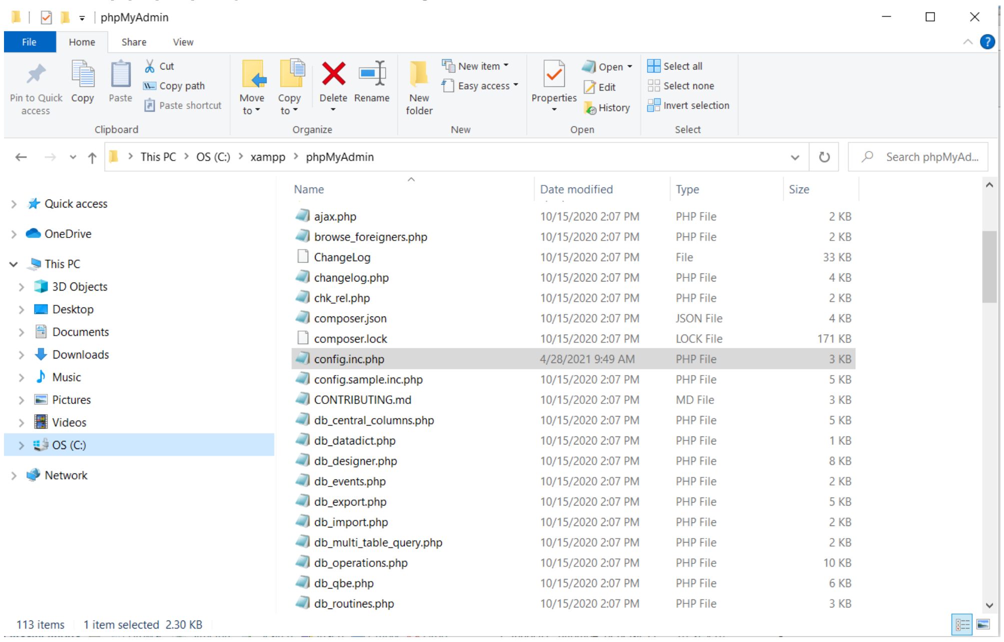

1. Assuming your local server environment has been installed and before you open the local server environment, the "config.inc.php" file must be edited to access the global database. This file can be typically found in the file path "C:\xampp\phpMyAdmin\config.inc.php".



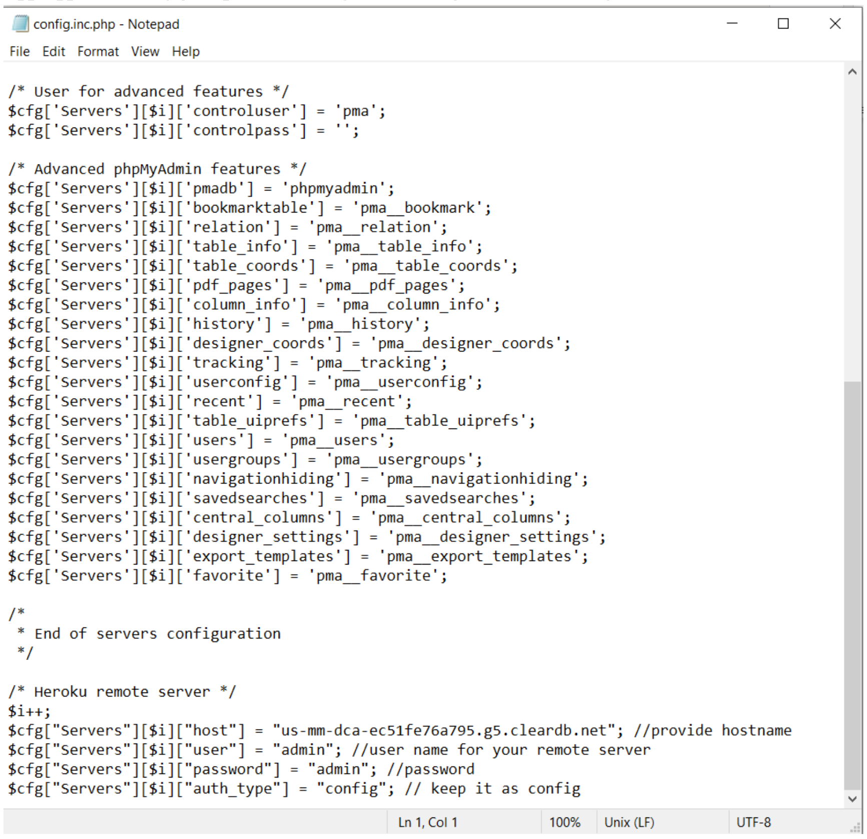
This PC > OS (C:) > xampp > phpMyAdmin

Name	Date modified	Type	Size
ajax.php	10/15/2020 2:07 PM	PHP File	2 KB
browse_foreigners.php	10/15/2020 2:07 PM	PHP File	2 KB
ChangeLog	10/15/2020 2:07 PM	File	33 KB
changelog.php	10/15/2020 2:07 PM	PHP File	4 KB
chk_rel.php	10/15/2020 2:07 PM	PHP File	2 KB
composer.json	10/15/2020 2:07 PM	JSON File	4 KB
composer.lock	10/15/2020 2:07 PM	LOCK File	171 KB
config.inc.php	4/28/2021 9:49 AM	PHP File	3 KB
config.sample.inc.php	10/15/2020 2:07 PM	PHP File	5 KB
CONTRIBUTING.md	10/15/2020 2:07 PM	MD File	3 KB
db_central_columns.php	10/15/2020 2:07 PM	PHP File	5 KB
db_datadict.php	10/15/2020 2:07 PM	PHP File	1 KB
db_designer.php	10/15/2020 2:07 PM	PHP File	8 KB
db_events.php	10/15/2020 2:07 PM	PHP File	2 KB
db_export.php	10/15/2020 2:07 PM	PHP File	5 KB
db_import.php	10/15/2020 2:07 PM	PHP File	2 KB
db_multi_table_query.php	10/15/2020 2:07 PM	PHP File	2 KB
db_operations.php	10/15/2020 2:07 PM	PHP File	10 KB
db_qbe.php	10/15/2020 2:07 PM	PHP File	6 KB
db_routines.php	10/15/2020 2:07 PM	PHP File	3 KB

113 items   1 item selected 2.30 KB

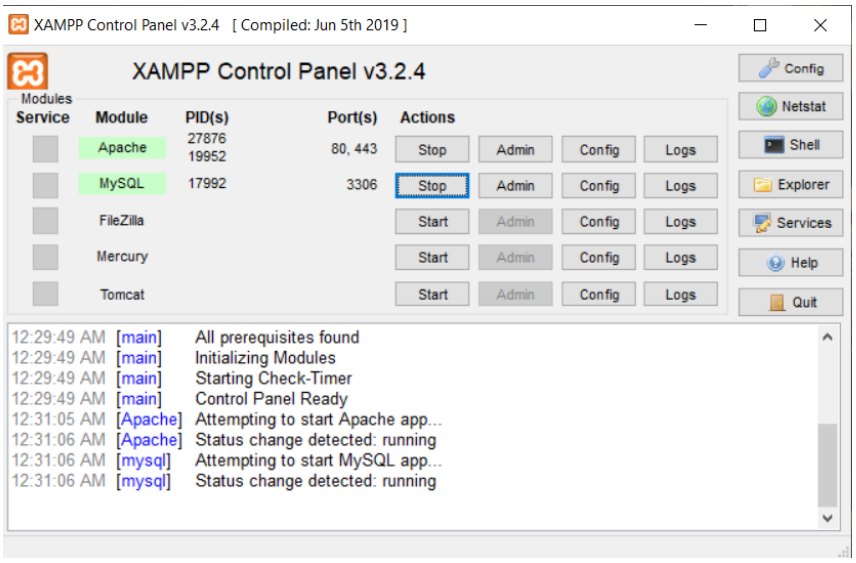
2. Access the php file and add the following host, username, password, and auth_type at the end of the file. (*Go to additional notes if credential has changed for the global database)

/* Heroku remote server */
$i++;
$cfg["Servers"][$i]["host"] = "us-mm-dca-ec51fe76a795.g5.cleardb.net"; //provide hostname
$cfg["Servers"][$i]["user"] = "admin"; //user name for your remote server
$cfg["Servers"][$i]["password"] = "admin"; //password
$cfg["Servers"][$i]["auth_type"] = "config"; // keep it as config



```
/* User for advanced features */
$cfg['Servers'][$i]['controluser'] = 'pma';
$cfg['Servers'][$i]['controlpass'] = '';

/* Advanced phpMyAdmin features */
$cfg['Servers'][$i]['pmadb'] = 'phpmyadmin';
$cfg['Servers'][$i]['bookmarktable'] = 'pma__bookmark';
$cfg['Servers'][$i]['relation'] = 'pma__relation';
$cfg['Servers'][$i]['table_info'] = 'pma__table_info';
$cfg['Servers'][$i]['table_coords'] = 'pma__table_coords';
$cfg['Servers'][$i]['pdf_pages'] = 'pma__pdf_pages';
$cfg['Servers'][$i]['column_info'] = 'pma__column_info';
$cfg['Servers'][$i]['history'] = 'pma__history';
$cfg['Servers'][$i]['designer_coords'] = 'pma__designer_coords';
$cfg['Servers'][$i]['tracking'] = 'pma__tracking';
$cfg['Servers'][$i]['userconfig'] = 'pma__userconfig';
$cfg['Servers'][$i]['recent'] = 'pma__recent';
$cfg['Servers'][$i]['table_uiprefs'] = 'pma__table_uiprefs';
$cfg['Servers'][$i]['users'] = 'pma__users';
$cfg['Servers'][$i]['usergroups'] = 'pma__usergroups';
$cfg['Servers'][$i]['navigationhiding'] = 'pma__navigationhiding';
$cfg['Servers'][$i]['savedsearches'] = 'pma__savedsearches';
$cfg['Servers'][$i]['central_columns'] = 'pma__central_columns';
$cfg['Servers'][$i]['designer_settings'] = 'pma__designer_settings';
$cfg['Servers'][$i]['export_templates'] = 'pma__export_templates';
$cfg['Servers'][$i]['favorite'] = 'pma__favorite';

/*
 * End of servers configuration
 */

/* Heroku remote server */
$i++;
$cfg["Servers"][$i]["host"] = "us-mm-dca-ec51fe76a795.g5.cleardb.net"; //provide hostname
$cfg["Servers"][$i]["user"] = "admin"; //user name for your remote server
$cfg["Servers"][$i]["password"] = "admin"; //password
$cfg["Servers"][$i]["auth_type"] = "config"; // keep it as config
```

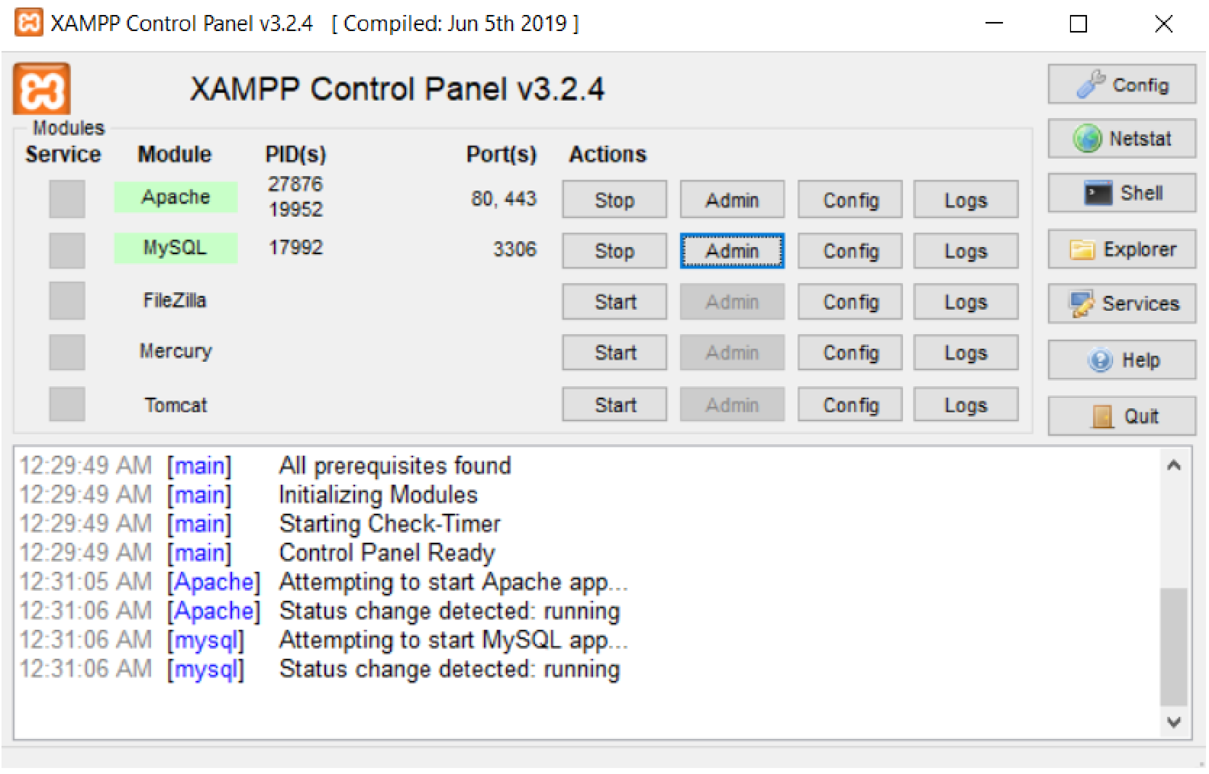
3. After editing the config file, run your local server environment then start both your web server and your database service.


XAMPP Control Panel v3.2.4 [Compiled: Jun 5th 2019]
XAMPP Control Panel v3.2.4
Config
Netstat
Shell
Explorer
Services
Help
Quit

Modules Service	Module	PID(s)	Port(s)	Actions			
	Apache	27876 19952	80, 443	Stop	Admin	Config	Logs
	MySQL	17992	3306	Stop	Admin	Config	Logs
	FileZilla			Start	Admin	Config	Logs
	Mercury			Start	Admin	Config	Logs
	Tomcat			Start	Admin	Config	Logs

```
12:29:49 AM  [main]    All prerequisites found
12:29:49 AM  [main]    Initializing Modules
12:29:49 AM  [main]    Starting Check-Timer
12:29:49 AM  [main]    Control Panel Ready
12:31:05 AM  [Apache]  Attempting to start Apache app...
12:31:06 AM  [Apache]  Status change detected: running
12:31:06 AM  [mysql]   Attempting to start MySQL app...
12:31:06 AM  [mysql]   Status change detected: running
```

4. Click the “Admin” button in the MySQL row to access the mysql database



XAMPP Control Panel v3.2.4 [Compiled: Jun 5th 2019]

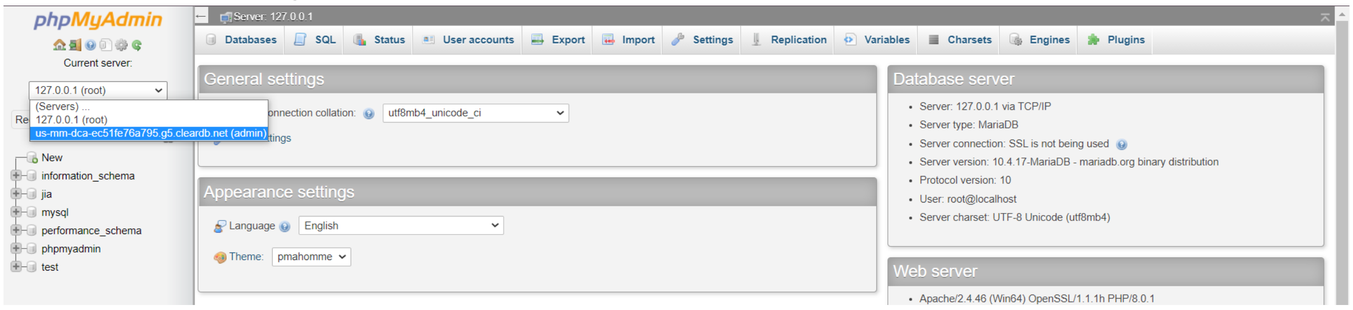
XAMPP Control Panel v3.2.4

Modules

Service	Module	PID(s)	Port(s)	Actions			
	Apache	27876 19952	80, 443	Stop	Admin	Config	Logs
	MySQL	17992	3306	Stop	Admin	Config	Logs
	FileZilla			Start	Admin	Config	Logs
	Mercury			Start	Admin	Config	Logs
	Tomcat			Start	Admin	Config	Logs

```
12:29:49 AM  [main]    All prerequisites found
12:29:49 AM  [main]    Initializing Modules
12:29:49 AM  [main]    Starting Check-Timer
12:29:49 AM  [main]    Control Panel Ready
12:31:05 AM  [Apache]  Attempting to start Apache app...
12:31:06 AM  [Apache]  Status change detected: running
12:31:06 AM  [mysql]   Attempting to start MySQL app...
12:31:06 AM  [mysql]   Status change detected: running
```

5. When you enter the phpMyAdmin homepage, go to the current server list and switch to the global database.



127.0.0.1 (root)

(Servers) ...
127.0.0.1 (root)
us-mm-dca-ec51fe76a795.g5.cleardb.net (admin)

- New
- information_schema
- jia
- mysql
- performance_schema
- phpmyadmin
- test

General settings

onnection collation: utf8mb4_unicode_ci

Appearance settings

Language: English

Theme: pmahomme

Database server

- Server: 127.0.0.1 via TCP/IP
- Server type: MariaDB
- Server connection: SSL is not being used
- Server version: 10.4.17-MariaDB - mariadb.org binary distribution
- Protocol version: 10
- User: root@localhost
- Server charset: UTF-8 Unicode (utf8mb4)

Web server

- Apache/2.4.46 (Win64) OpenSSL/1.1.1h PHP/8.0.1

6. After switching page, click on the global database “jia-optionmap-database”. If you see the tables, that means you are connected to the database and now able to add, alter, and delete data from the global database.

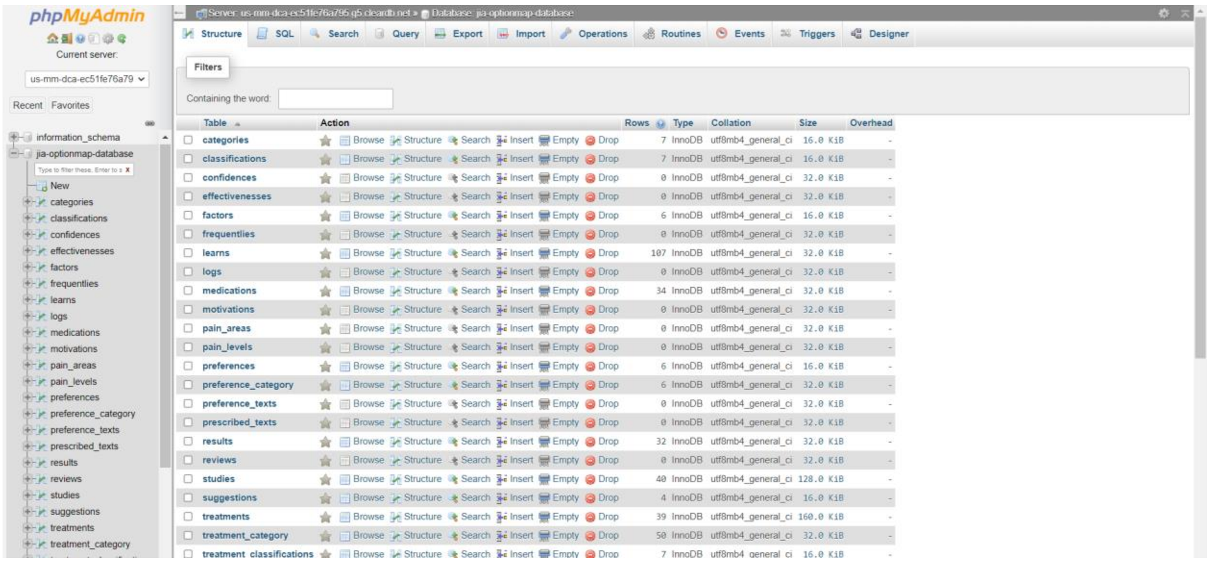
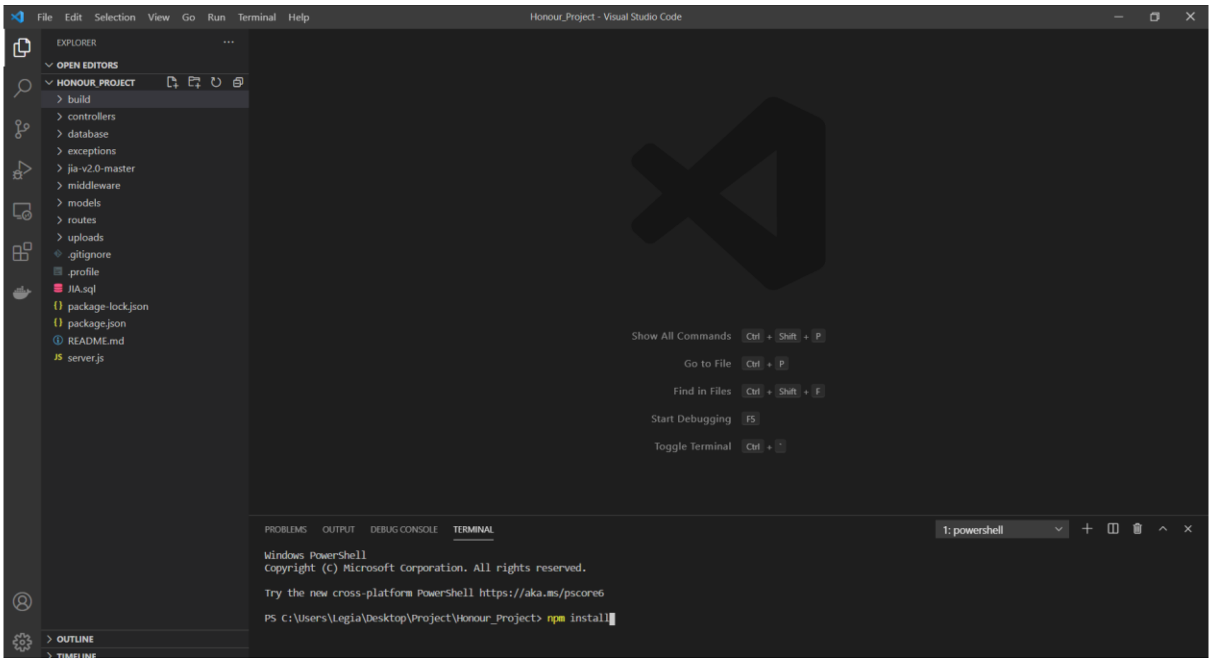


Table	Action	Rows	Type	Collation	Size	Overhead
categories	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_general_ci	16.0 KiB	-
classifications	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_general_ci	16.0 KiB	-
confidences	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
effectivenesses	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
factors	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	16.0 KiB	-
frequentlies	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
learns	Browse Structure Search Insert Empty Drop	107	InnoDB	utf8mb4_general_ci	32.0 KiB	-
logs	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
medications	Browse Structure Search Insert Empty Drop	34	InnoDB	utf8mb4_general_ci	32.0 KiB	-
motivations	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
pain_areas	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
pain_levels	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
preferences	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	16.0 KiB	-
preference_category	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	32.0 KiB	-
preference_texts	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
prescribed_texts	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
results	Browse Structure Search Insert Empty Drop	32	InnoDB	utf8mb4_general_ci	32.0 KiB	-
reviews	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
studies	Browse Structure Search Insert Empty Drop	40	InnoDB	utf8mb4_general_ci	128.0 KiB	-
suggestions	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 KiB	-
treatments	Browse Structure Search Insert Empty Drop	39	InnoDB	utf8mb4_general_ci	160.0 KiB	-
treatment_category	Browse Structure Search Insert Empty Drop	50	InnoDB	utf8mb4_general_ci	32.0 KiB	-
treatment_classifications	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_general_ci	16.0 KiB	-

7. After confirming your connection to the global dataset, create a terminal in the root folder of your project and input “npm install”. A node_modules folder should be created.



```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Legia\Desktop\Project\Honour_Project> npm install
```
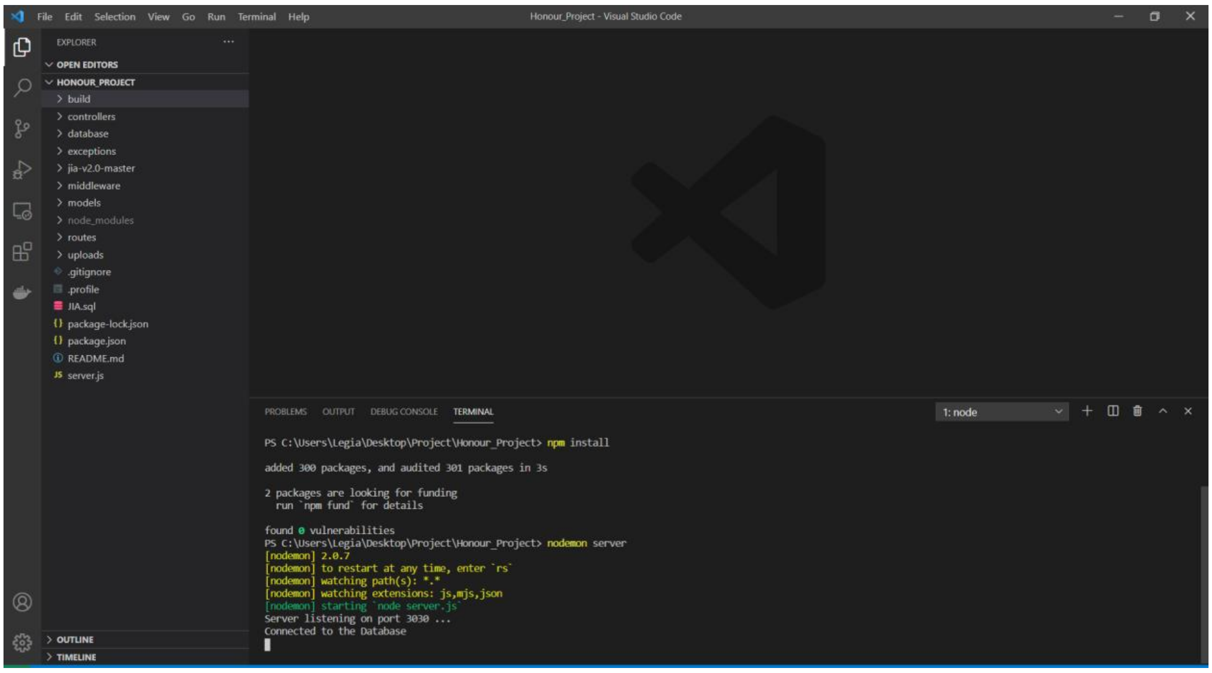

8. Then input “nodemon server”. If you get the following result, then your project is now connected to the global database. *Keep this terminal running when running the web application



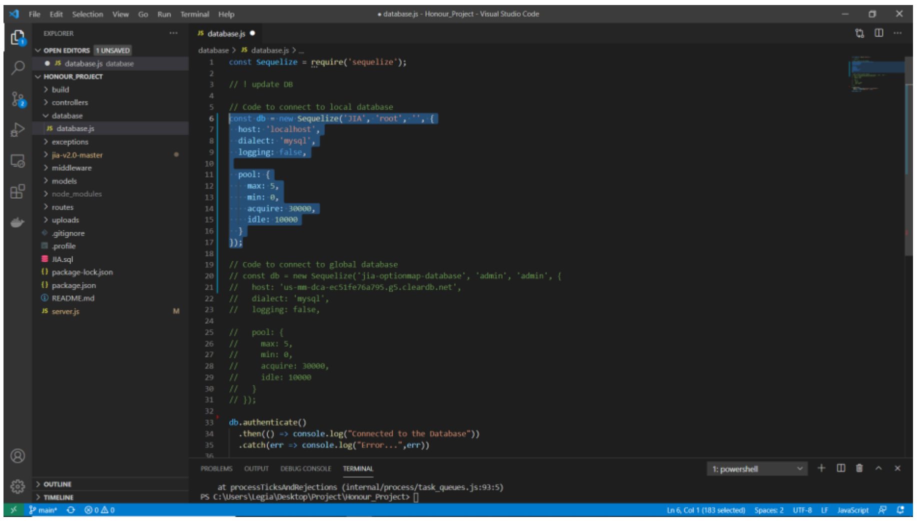
```
PS C:\Users\Legia\Desktop\Project\Honour_Project> npm install

added 300 packages, and audited 301 packages in 3s

2 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS C:\Users\Legia\Desktop\Project\Honour_Project> nodemon server
[nodemon] 2.0.7
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node server.js`
Server listening on port 3030 ...
Connected to the Database
```

Local Server-side setup

Setting the project to link to the local database. **For this setup, I will use XAMMP and its functions to do the global server-side setup but feel free to use any other local server environment if you prefer a different environment over XAMMP.*

*Before running the local server-side, make sure codes that connect to the local database are uncommented and codes that connect to the global database are commented as shown in the following file.

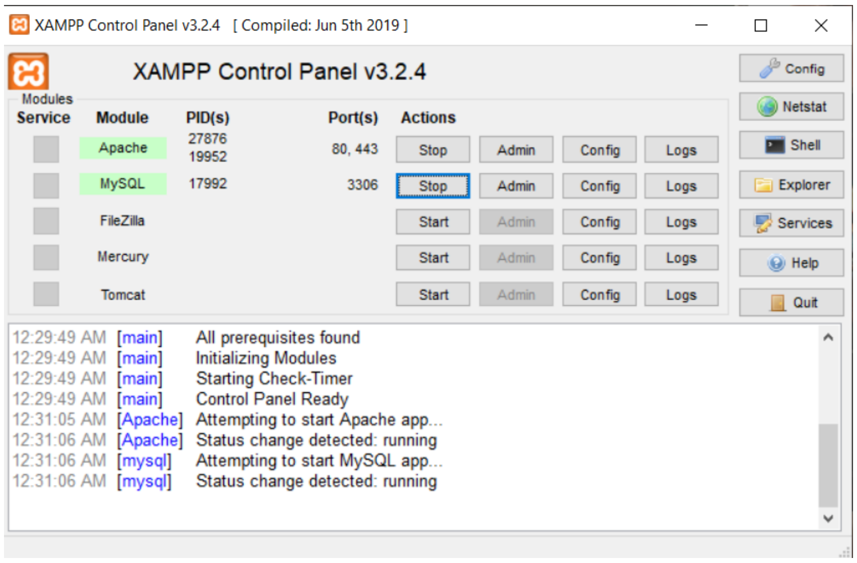
database.js



```javascript
const Sequelize = require('sequelize');

// ! update DB

// Code to connect to local database
const db = new Sequelize('JIA', 'root', '', {
  host: 'localhost',
  dialect: 'mysql',
  logging: false,

  pool: {
    max: 5,
    min: 0,
    acquire: 30000,
    idle: 10000
  }
});

// Code to connect to global database
// const db = new Sequelize('jia-optionmap-database', 'admin', 'admin', {
//   host: 'us-mm-dca-ec51fe76a795.g5.cleardb.net',
//   dialect: 'mysql',
//   logging: false,

//   pool: {
//     max: 5,
//     min: 0,
//     acquire: 30000,
//     idle: 10000
//   }
// });

db.authenticate()
  .then(() => console.log("Connected to the Database"))
  .catch(err => console.log("Error...",err))
```

```
    at processTicksAndRejections (internal/process/task_queues.js:93:5)
PS C:\Users\Legia\Desktop\Project\Honour_Project> 
```

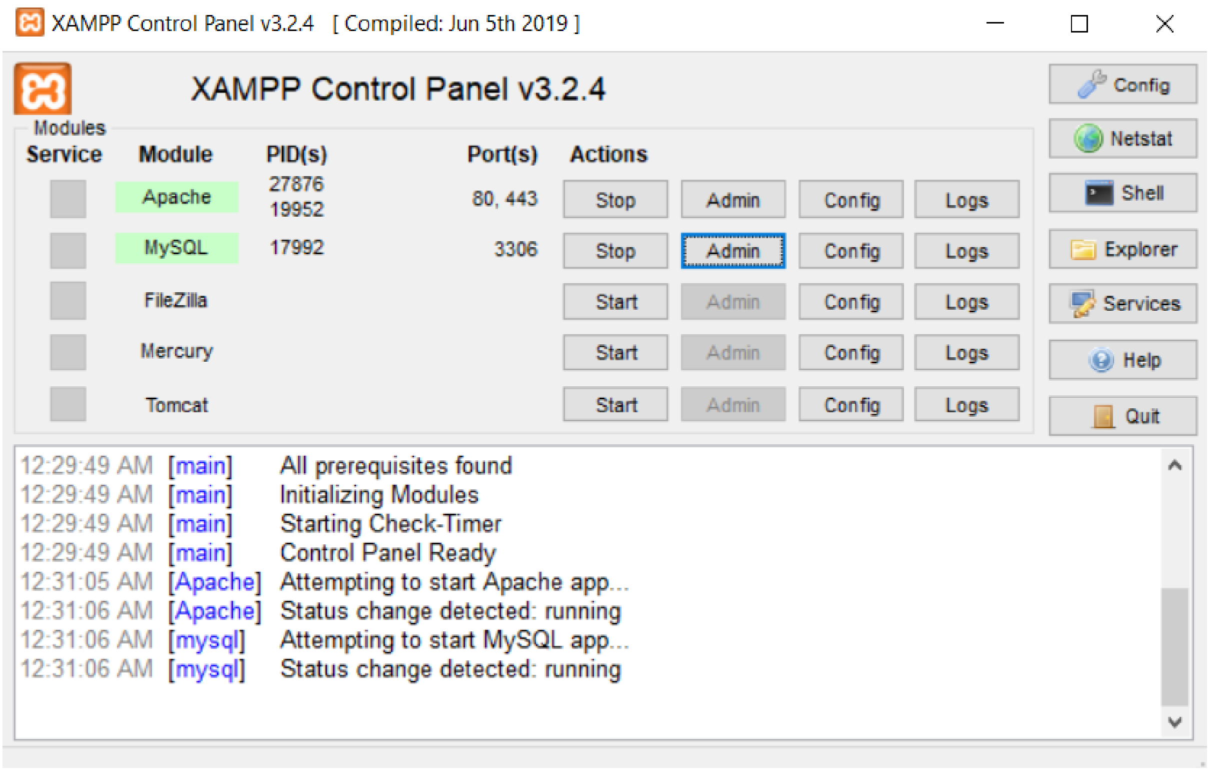
1. Assuming your local server environment has been installed, run your local server environment then start both your web server and your database service.


XAMPP Control Panel v3.2.4 [Compiled: Jun 5th 2019]
XAMPP Control Panel v3.2.4
Config
Netstat
Shell
Explorer
Services
Help
Quit
Modules

Service	Module	PID(s)	Port(s)	Actions			
	Apache	27876 19952	80, 443	Stop	Admin	Config	Logs
	MySQL	17992	3306	Stop	Admin	Config	Logs
	FileZilla			Start	Admin	Config	Logs
	Mercury			Start	Admin	Config	Logs
	Tomcat			Start	Admin	Config	Logs

```
12:29:49 AM  [main]     All prerequisites found
12:29:49 AM  [main]     Initializing Modules
12:29:49 AM  [main]     Starting Check-Timer
12:29:49 AM  [main]     Control Panel Ready
12:31:05 AM  [Apache]   Attempting to start Apache app...
12:31:06 AM  [Apache]   Status change detected: running
12:31:06 AM  [mysql]    Attempting to start MySQL app...
12:31:06 AM  [mysql]    Status change detected: running
```

2. Click the “Admin” button in the MySQL row to access the mysql database


XAMPP Control Panel v3.2.4 [Compiled: Jun 5th 2019]
XAMPP Control Panel v3.2.4
Config
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	Apache	27876 19952	80, 443	Stop	Admin	Config	Logs
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	Mercury			Start	Admin	Config	Logs
	Tomcat			Start	Admin	Config	Logs

```
12:29:49 AM  [main]     All prerequisites found
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12:29:49 AM  [main]     Control Panel Ready
12:31:05 AM  [Apache]   Attempting to start Apache app...
12:31:06 AM  [Apache]   Status change detected: running
12:31:06 AM  [mysql]    Attempting to start MySQL app...
12:31:06 AM  [mysql]    Status change detected: running
```
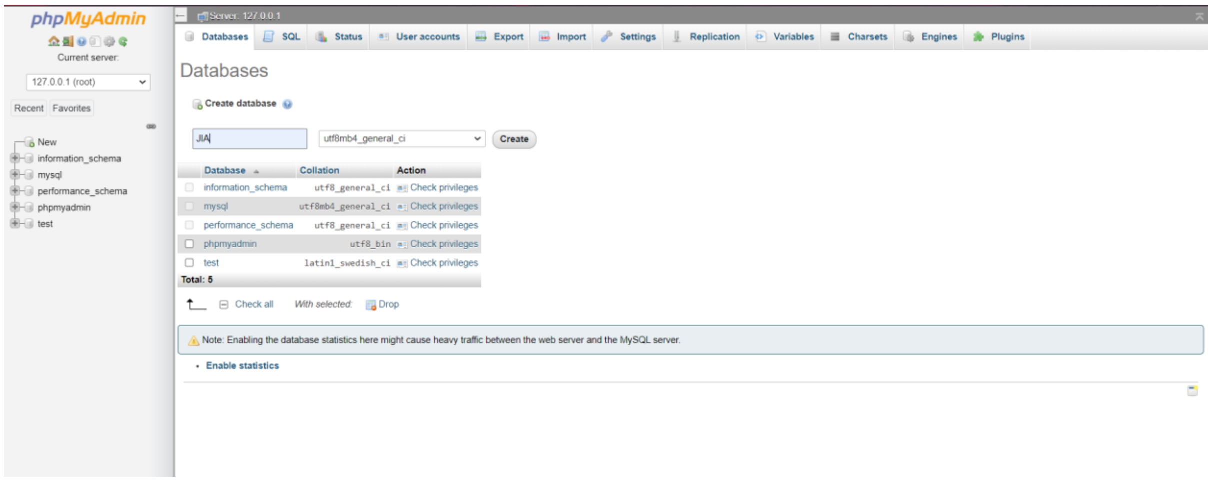

3. When you enter the phpMyAdmin homepage, click on the “New” link then click on the title box to write the name “JIA” and press the create button to create your local database.



Databases

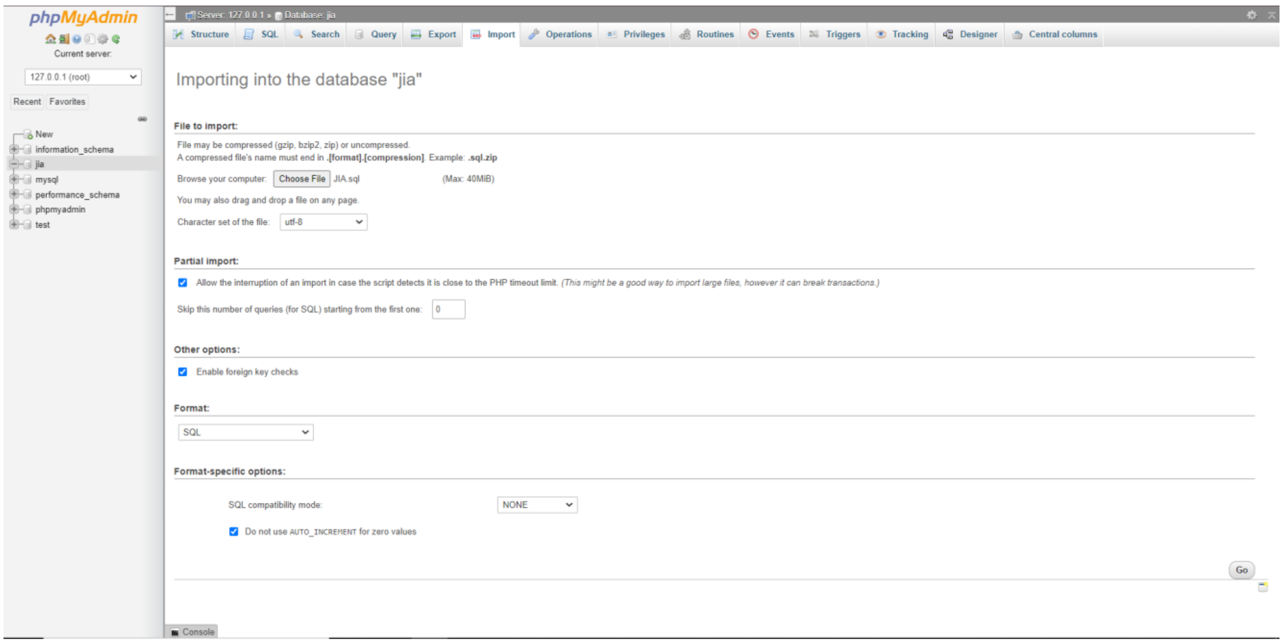
Create database

JIA | utf8mb4_general_ci

Database	Collation	Action
information_schema	utf8_general_ci	Check privileges
mysql	utf8mb4_general_ci	Check privileges
performance_schema	utf8_general_ci	Check privileges
phpmyadmin	utf8_bin	Check privileges
test	latin1_swedish_ci	Check privileges
Total: 5		

Note: Enabling the database statistics here might cause heavy traffic between the web server and the MySQL server.

4. Click on the “JIA” link and click the import tab. From there you can choose the file and import the JIA.sql file (the file should be provided within the project folder). Then press “Go” to create the database.



Importing into the database "jia"

File to import:

File may be compressed (gzip, bzip2, zip) or uncompressed.
A compressed file's name must end in **.[format].[compression]**. Example: **.sql.zip**

Browse your computer: JIA.sql (Max: 40MiB)

You may also drag and drop a file on any page.

Character set of the file: utf-8

Partial import:

☑ Allow the interruption of an import in case the script detects it is close to the PHP timeout limit. *(This might be a good way to import large files, however it can break transactions.)*

Skip this number of queries (for SQL) starting from the first one: 0

Other options:

☑ Enable foreign key checks

Format:

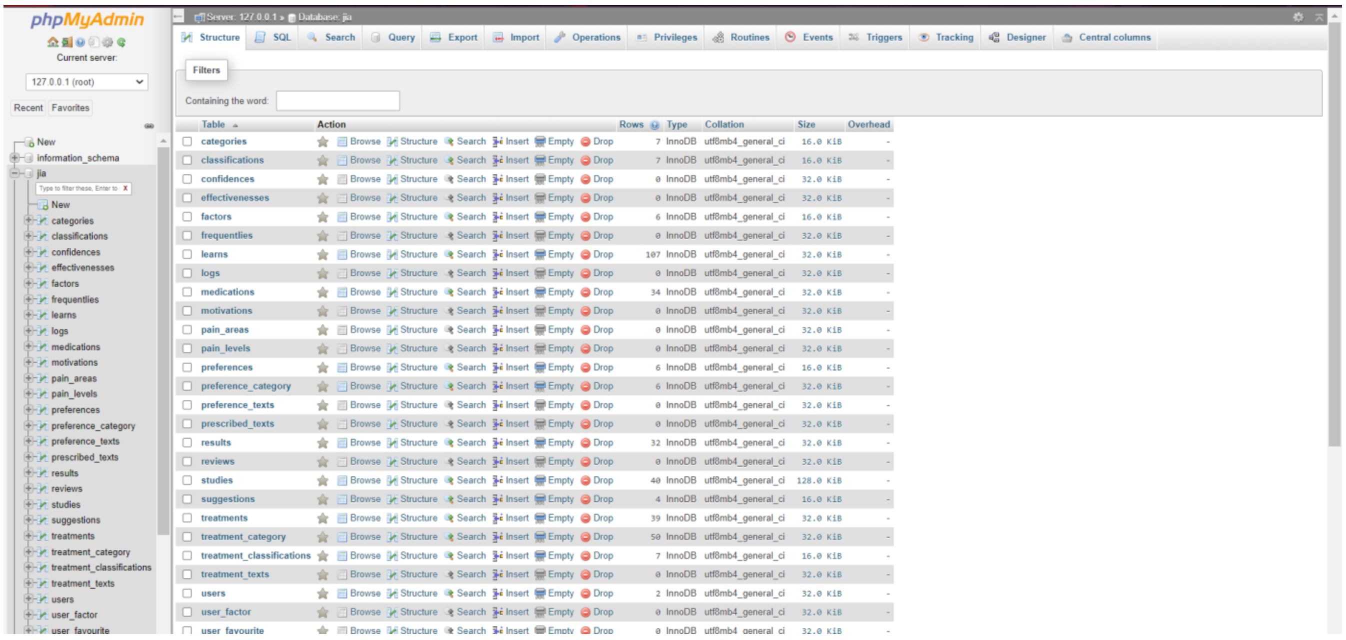
SQL

Format-specific options:

SQL compatibility mode: NONE

☑ Do not use AUTO_INCREMENT for zero values

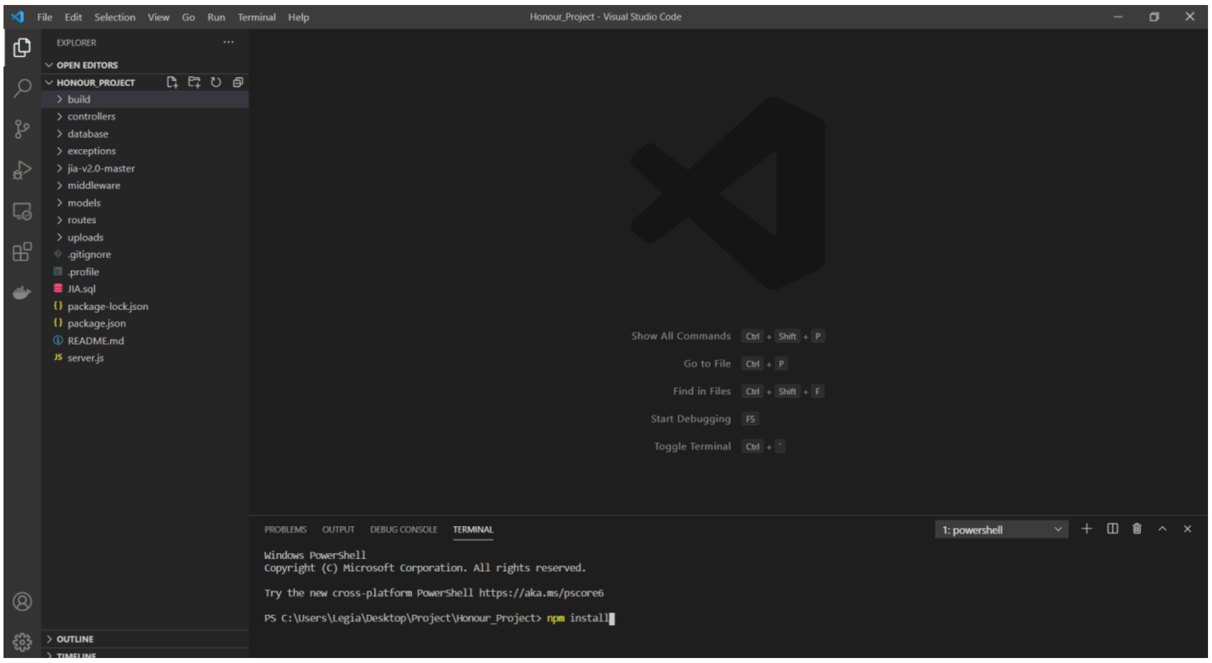
5. If you see the tables, that means you are connected to the database and now able to add, alter, and delete data from the local database.



Server: 127.0.0.1 » Database: jia

Table	Action	Rows	Type	Collation	Size	Overhead
categories	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_general_ci	16.0 KiB	-
classifications	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_general_ci	16.0 KiB	-
confidences	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
effectivenesses	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
factors	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	16.0 KiB	-
frequentlies	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
learns	Browse Structure Search Insert Empty Drop	107	InnoDB	utf8mb4_general_ci	32.0 KiB	-
logs	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
medications	Browse Structure Search Insert Empty Drop	34	InnoDB	utf8mb4_general_ci	32.0 KiB	-
motivations	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
pain_areas	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
pain_levels	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
preferences	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	16.0 KiB	-
preference_category	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_general_ci	32.0 KiB	-
preference_texts	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
prescribed_texts	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
results	Browse Structure Search Insert Empty Drop	32	InnoDB	utf8mb4_general_ci	32.0 KiB	-
reviews	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
studies	Browse Structure Search Insert Empty Drop	40	InnoDB	utf8mb4_general_ci	128.0 KiB	-
suggestions	Browse Structure Search Insert Empty Drop	4	InnoDB	utf8mb4_general_ci	16.0 KiB	-
treatments	Browse Structure Search Insert Empty Drop	39	InnoDB	utf8mb4_general_ci	32.0 KiB	-
treatment_category	Browse Structure Search Insert Empty Drop	50	InnoDB	utf8mb4_general_ci	32.0 KiB	-
treatment_classifications	Browse Structure Search Insert Empty Drop	7	InnoDB	utf8mb4_general_ci	16.0 KiB	-
treatment_texts	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
users	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_general_ci	32.0 KiB	-
user_factor	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-
user_favourite	Browse Structure Search Insert Empty Drop	0	InnoDB	utf8mb4_general_ci	32.0 KiB	-

6. After confirming your connection to the local dataset, create a terminal in the root folder of your project and input “npm install”. A node_modules folder should be created.



```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Legia\Desktop\Project\Honour_Project> npm install
```
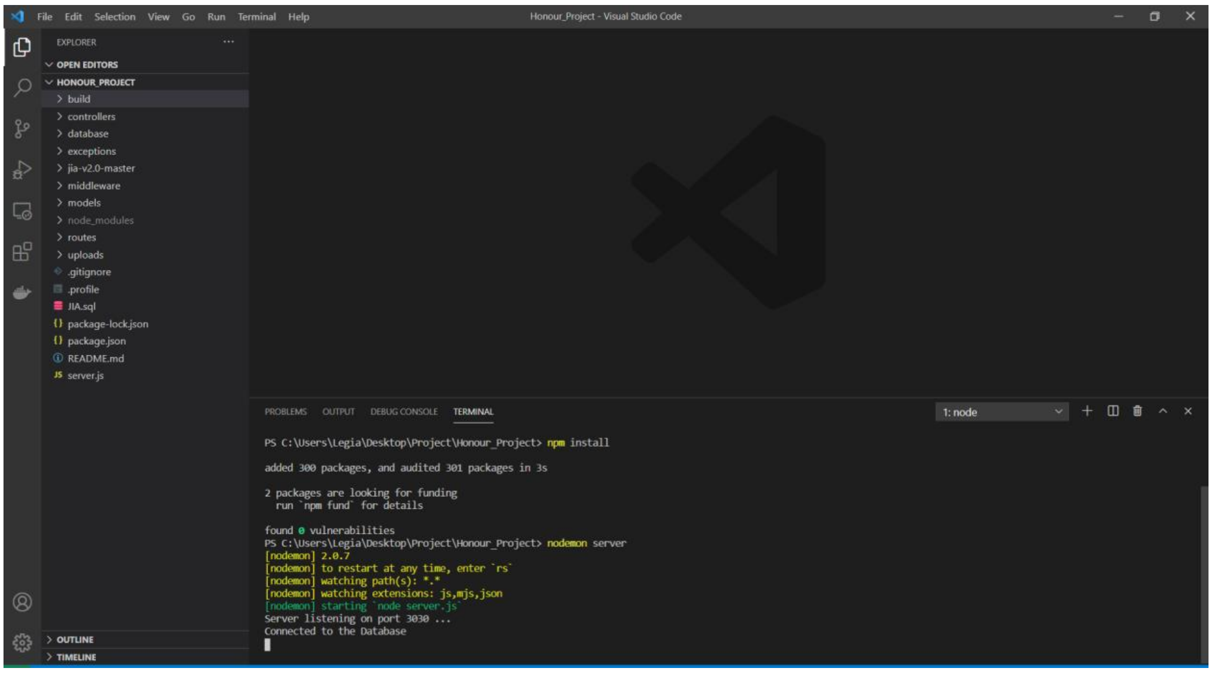

7. Then input “nodemon server”. If you get the following result, then your project is now connected to the global database. *Keep this terminal running when running the web application



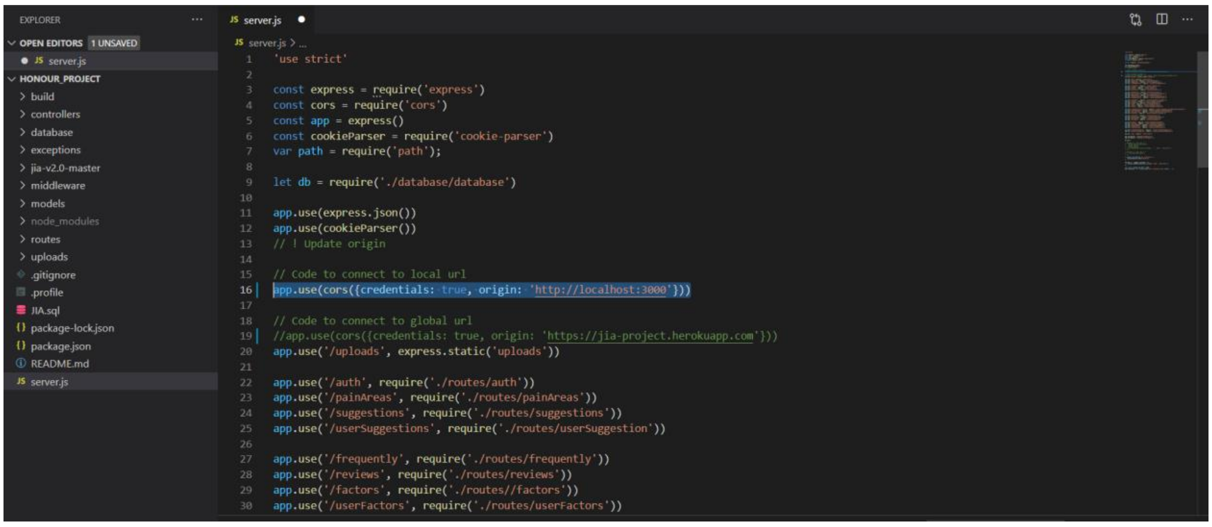
```
PS C:\Users\Legia\Desktop\Project\Honour_Project> npm install

added 300 packages, and audited 301 packages in 3s

2 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS C:\Users\Legia\Desktop\Project\Honour_Project> nodemon server
[nodemon] 2.0.7
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node server.js`
Server listening on port 3030 ...
Connected to the Database
```

Client-side set-up

*This setup is only use if you want to run the webpage locally. Otherwise you can use the link https://jia-project.herokuapp.com/ to view the webpage as this link is being run by Heroku.

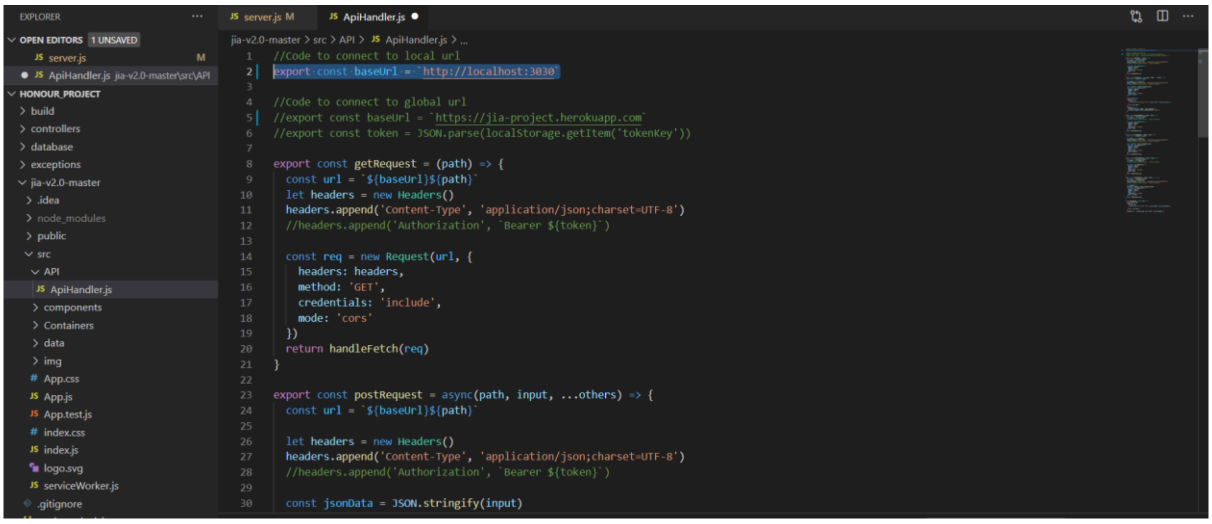
*Before running the client-side make sure codes that connect to the local url are uncommented and codes that connect to the global url are commented as shown each of the following files.

server.js



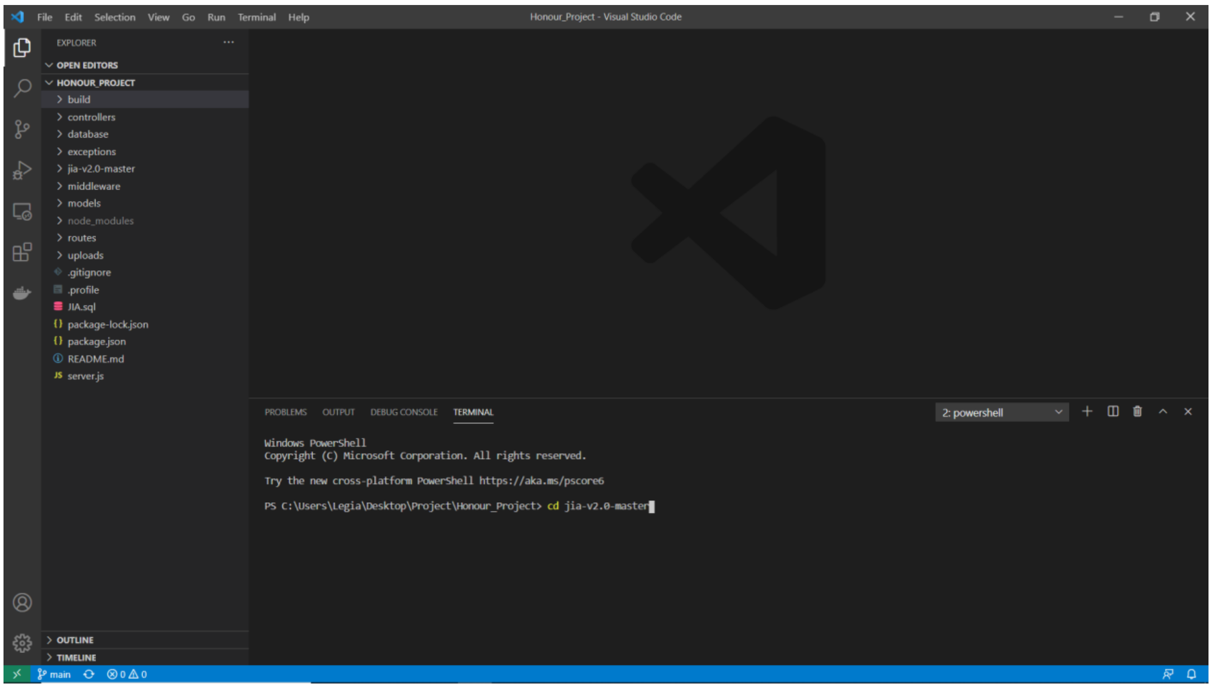
```
'use strict'

const express = require('express')
const cors = require('cors')
const app = express()
const cookieParser = require('cookie-parser')
var path = require('path');

let db = require('./database/database')

app.use(express.json())
app.use(cookieParser())
// ! Update origin

// Code to connect to local url
app.use(cors({credentials: true, origin: 'http://localhost:3000'}))

// Code to connect to global url
//app.use(cors({credentials: true, origin: 'https://jia-project.herokuapp.com'}))
app.use('/uploads', express.static('uploads'))

app.use('/auth', require('./routes/auth'))
app.use('/painAreas', require('./routes/painAreas'))
app.use('/suggestions', require('./routes/suggestions'))
app.use('/userSuggestions', require('./routes/userSuggestion'))

app.use('/frequently', require('./routes/frequently'))
app.use('/reviews', require('./routes/reviews'))
app.use('/factors', require('./routes//factors'))
app.use('/userFactors', require('./routes/userFactors'))
```

ApiHandler.js



```
//Code to connect to local url
export const baseUrl = `http://localhost:3030`

//Code to connect to global url
//export const baseUrl = `https://jia-project.herokuapp.com`
//export const token = JSON.parse(localStorage.getItem('tokenKey'))

export const getRequest = (path) => {
  const url = `${baseUrl}${path}`
  let headers = new Headers()
  headers.append('Content-Type', 'application/json;charset=UTF-8')
  //headers.append('Authorization', `Bearer ${token}`)

  const req = new Request(url, {
    headers: headers,
    method: 'GET',
    credentials: 'include',
    mode: 'cors'
  })
  return handleFetch(req)
}

export const postRequest = async(path, input, ...others) => {
  const url = `${baseUrl}${path}`

  let headers = new Headers()
  headers.append('Content-Type', 'application/json;charset=UTF-8')
  //headers.append('Authorization', `Bearer ${token}`)

  const jsonData = JSON.stringify(input)
```

1. Create a terminal in the root folder of your project and cd to the folder “jia-v2.0-master”.



```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Legia\Desktop\Project\Honour_Project> cd jia-v2.0-master
```
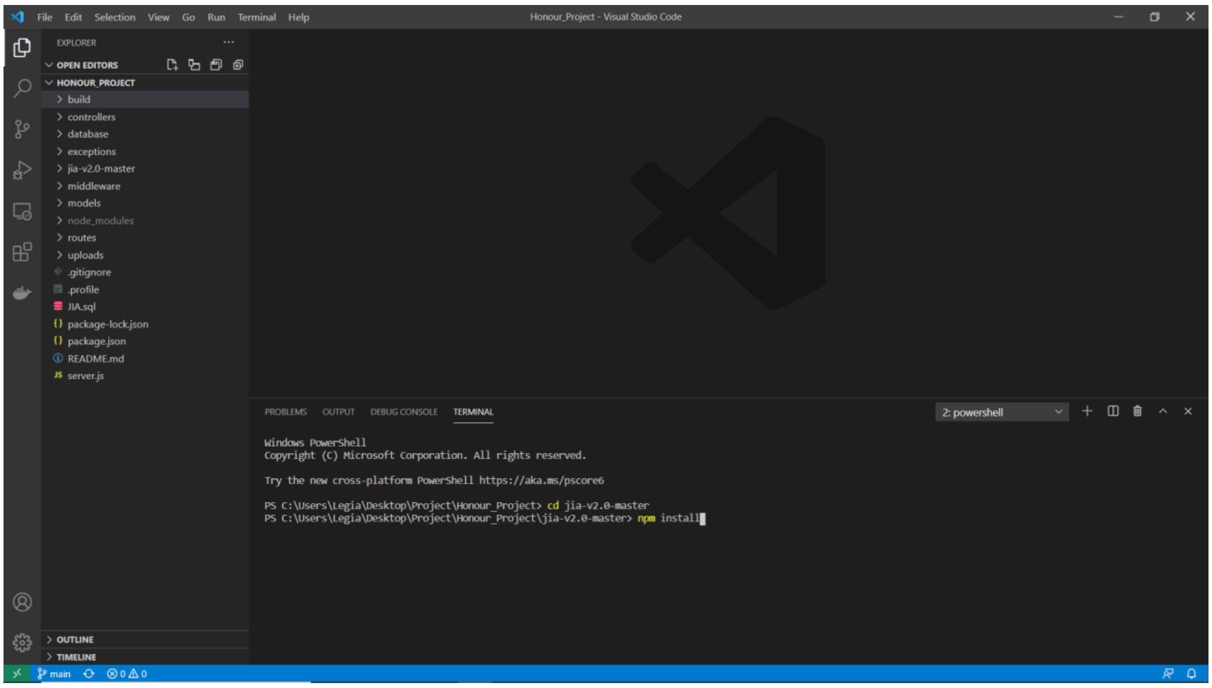

2. Run “npm install” in the terminal to install all project dependencies. A node_modules folder should be created.



```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\Legia\Desktop\Project\Honour_Project> cd jia-v2.0-master
PS C:\Users\Legia\Desktop\Project\Honour_Project\jia-v2.0-master> npm install
```
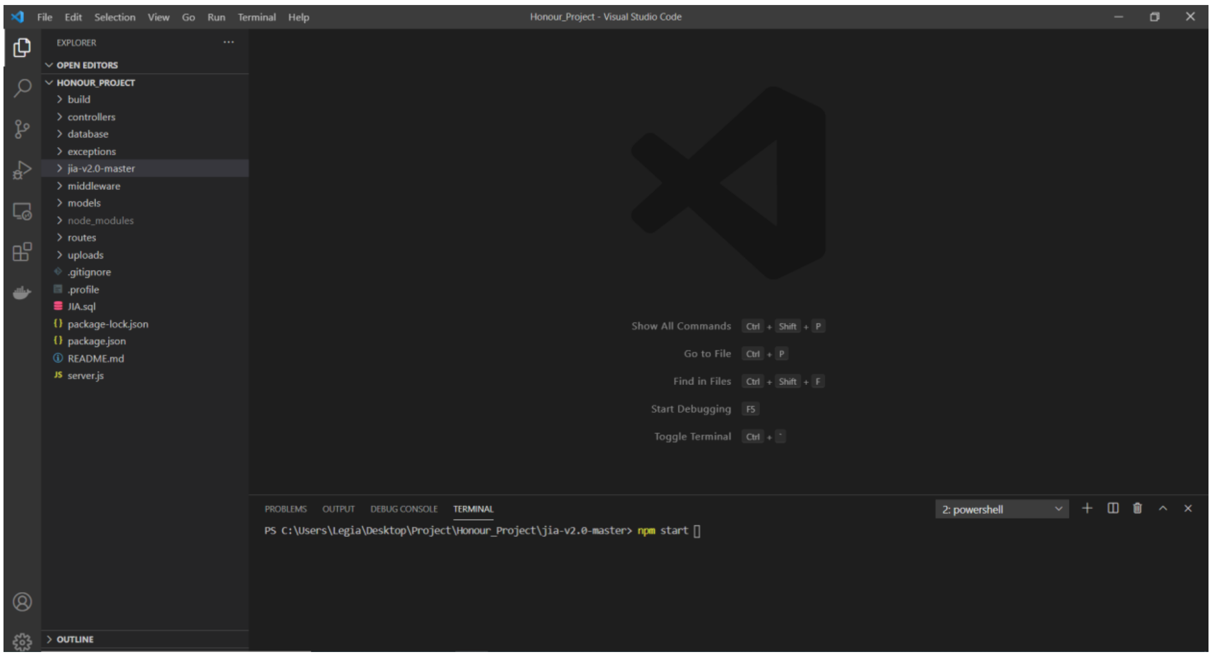
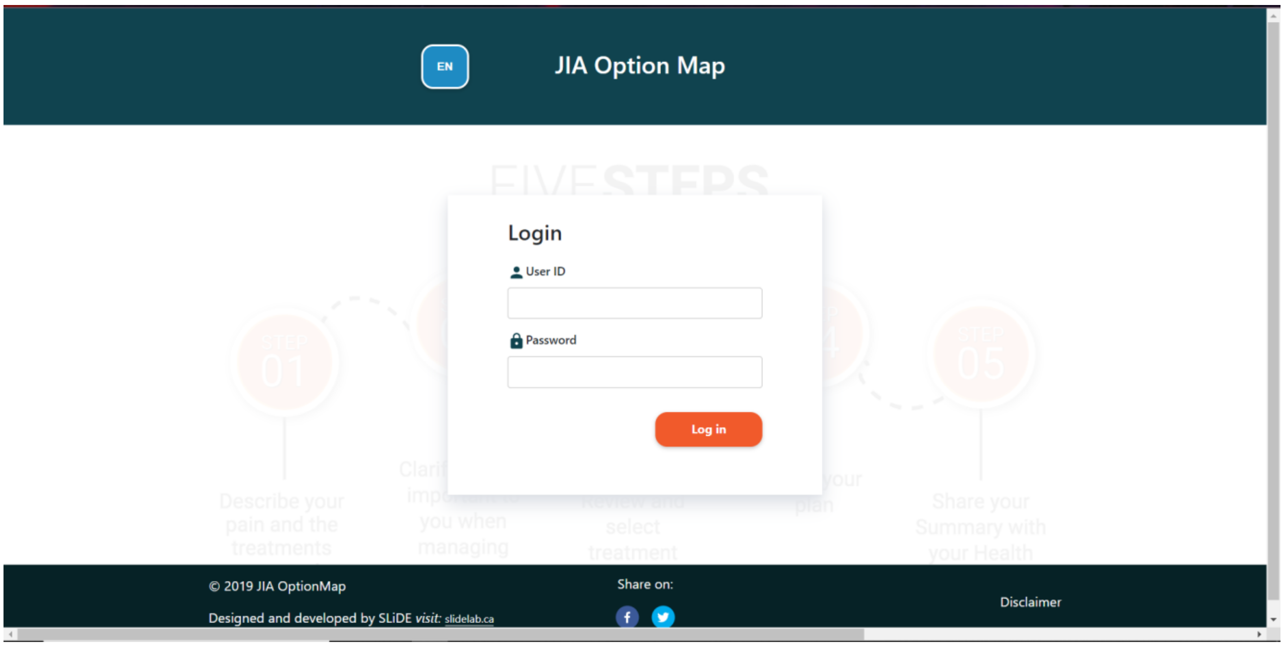

3. Input “npm start” to the terminal and the web application should open in your bowser.



```
PS C:\Users\Legia\Desktop\Project\Honour_Project\jia-v2.0-master> npm start
```

4. If you see the following webpage, you can now access the website.



Web app admin account credentials

Username / user ID: admin
Password: admin

Web app admin account credentials

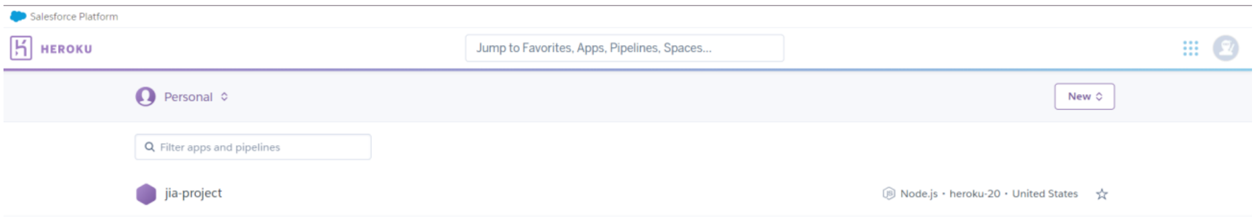
Username / user ID: user
Password: user

Additional Notes

*The following flowchart showcase pathways certain results that users should expect to see when choosing certain treatments and medications. (Some of the values are outdated but the paths to the results are still relevant)
Flowcharts: https://whimsical.com/jia-THM5hSUGUQmvyoJzdpA9pd

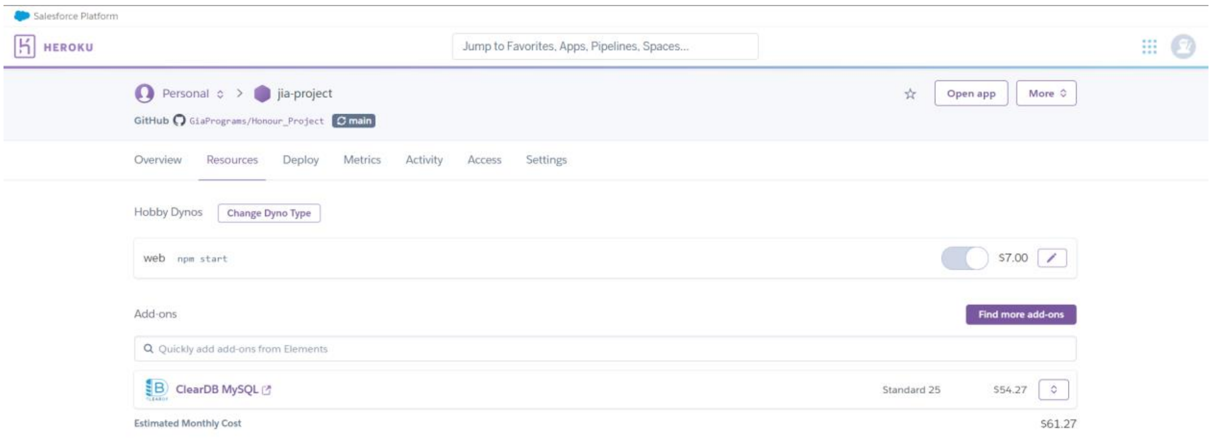
*If the credentials for the global database have changed, do the following steps to get the new credentials.

1. Go to the Heroku website and click the “jia-project” app


Salesforce Platform
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...
Personal
New
Filter apps and pipelines

jia-project — Node.js • heroku-20 • United States

2. Go to the resource tab and click the ClearDB MySQL add-on



GitHub GiaPrograms/Honour_Project main

Hobby Dynos

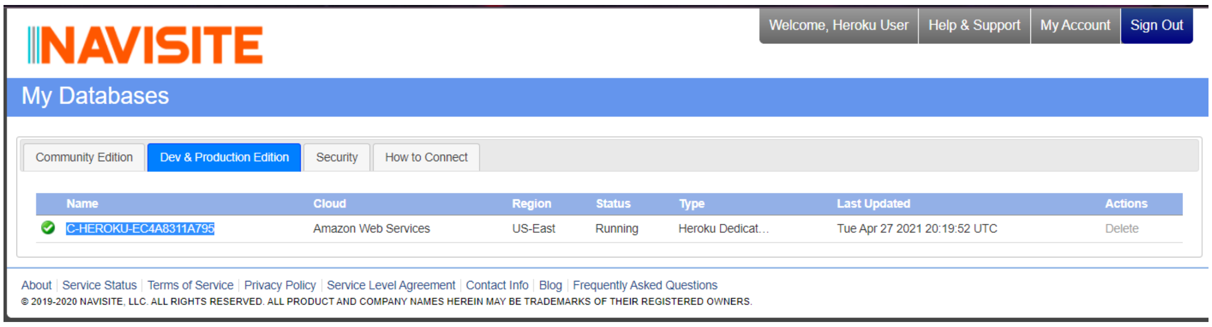
web `npm start` $7.00

Add-ons

ClearDB MySQL — Standard 25 — $54.27

Estimated Monthly Cost $61.27

3. The NAVISITE website will open. Go to the "Dev & Production Edition" tab and click on the datastore link.



Name	Cloud	Region	Status	Type	Last Updated	Actions
CI-HEROKU-EC4A8311A795	Amazon Web Services	US-East	Running	Heroku Dedicat...	Tue Apr 27 2021 20:19:52 UTC	Delete

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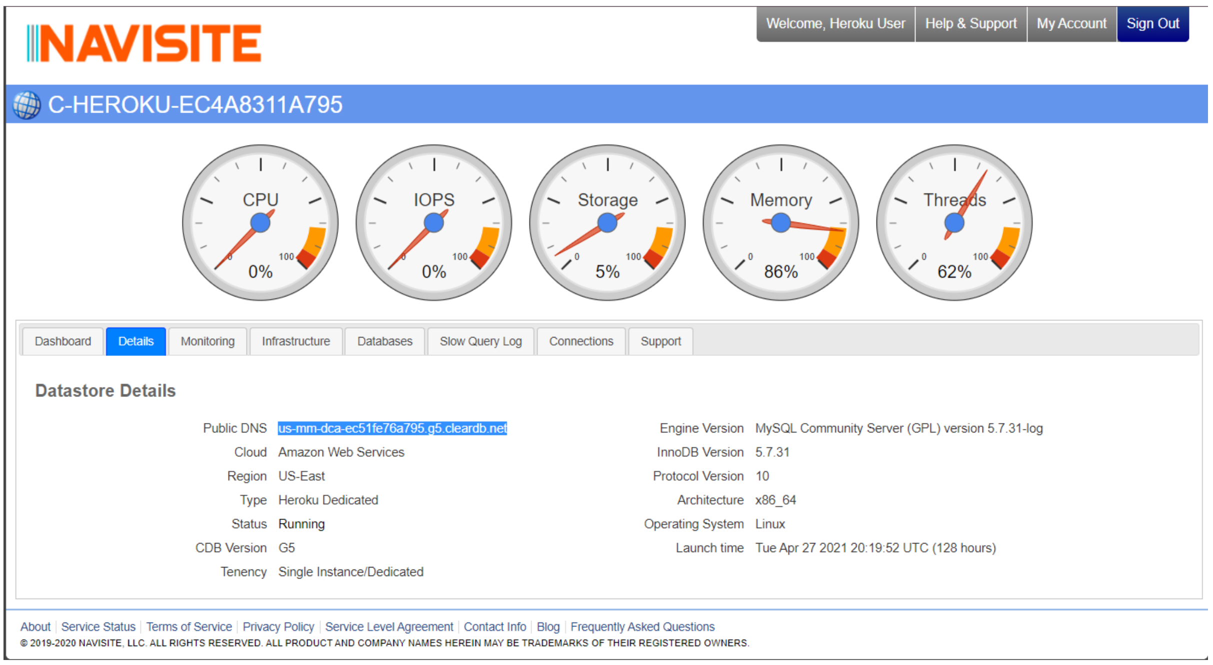
4. The datastore details will open. In this page, the host will be given as a Public DNS.



Datastore Details

Public DNS	us-mm-dca-ec51fe76a795.g5.cleardb.net	Engine Version	MySQL Community Server (GPL) version 5.7.31-log
Cloud	Amazon Web Services	InnoDB Version	5.7.31
Region	US-East	Protocol Version	10
Type	Heroku Dedicated	Architecture	x86_64
Status	Running	Operating System	Linux
CDB Version	G5	Launch time	Tue Apr 27 2021 20:19:52 UTC (128 hours)
Tenancy	Single Instance/Dedicated		

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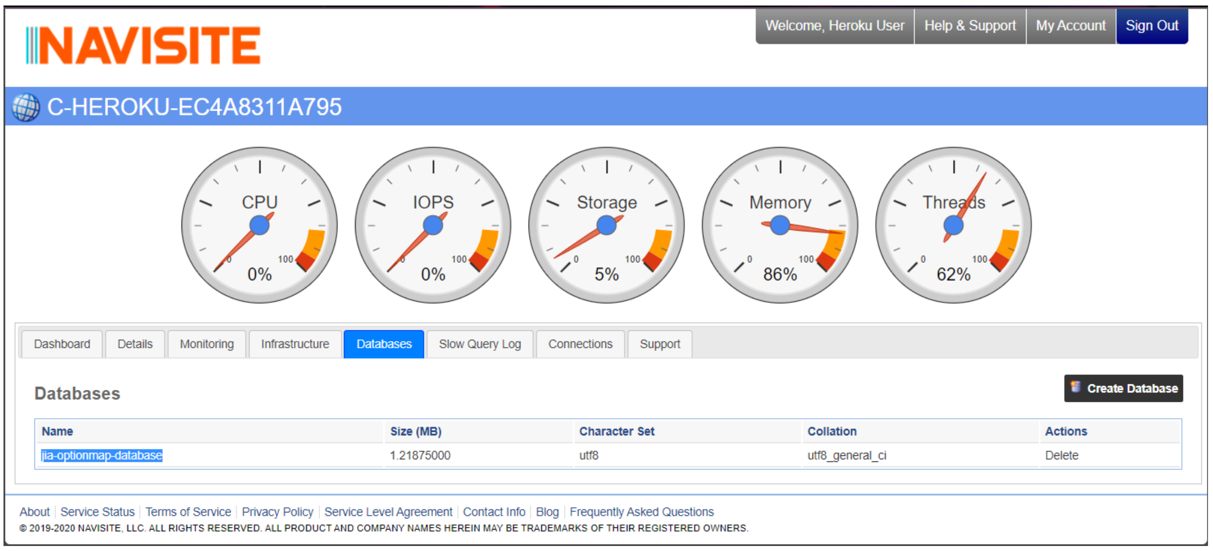
5. Go to the “Databases” tab to access the global database and acquire the database name.



Databases

Name	Size (MB)	Character Set	Collation	Actions
iia-optionmap-database	1.21875000	utf8	utf8_general_ci	Delete

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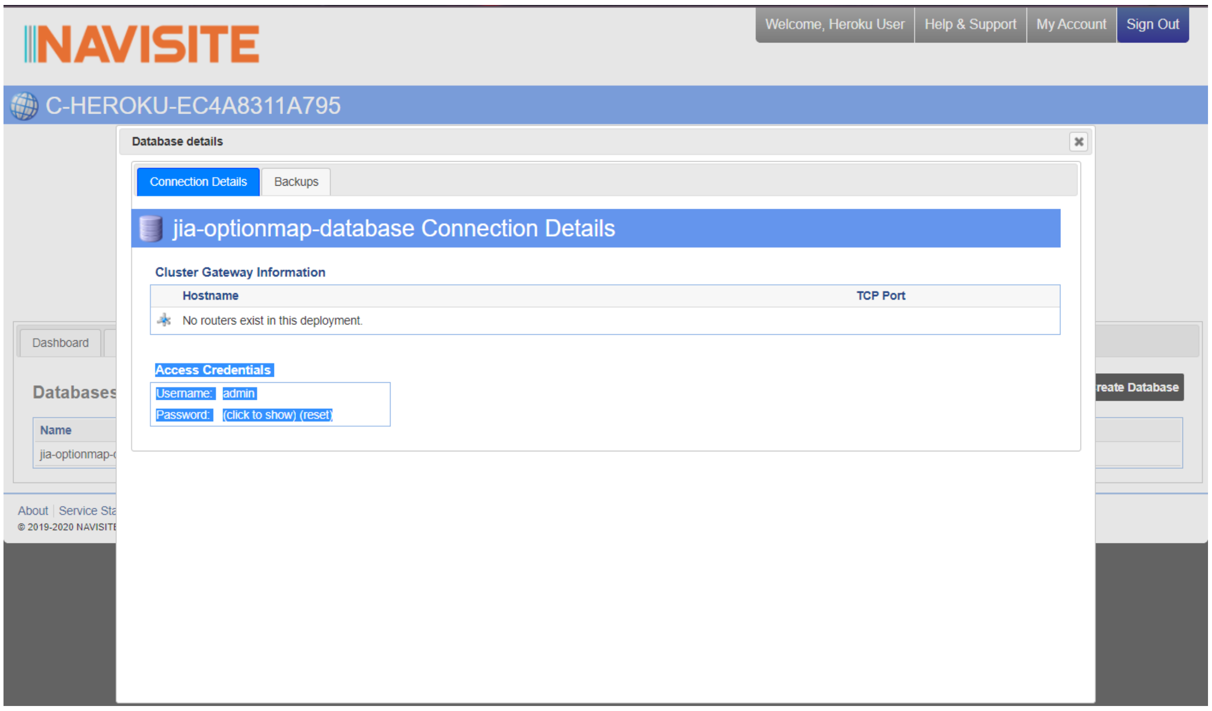
6. Click on the database name and you will get both the username and password for the global database.



C-HEROKU-EC4A8311A795

Database details

jia-optionmap-database Connection Details

Cluster Gateway Information

Hostname	TCP Port
No routers exist in this deployment.	

Access Credentials

Username:	admin
Password:	(click to show) (reset)