

Go In Action II

Car Rental Web Application Upgraded

Features of web application

- Web application allows car owners to display photos of their available cars to their customers and let them rent cars.
- Customers can view the car model and make booking for the specify car. Customers can also view their booking records.

Files & Folders

- main.go the main golang file
- CRA_SQL.sql coding for MySQL database
- Packages (folder) contain all the module for main.go
 - package internet is all running code mainly for http and template module.
 - package datastore is all running code mainly store and draw data from MySQL database.
 - other packages “customers”, “vehicle” & “bookings” is more on function that connect both packages internet & datastore
- templates (folder) contain all the template files (.gohtml)
- other folders contain resources like pictures and css files

Data specification

1. Database

This web application requires [MySQL Workbench](#) as a database. All data will draw and store inside the database. After that, would need to run sql code for generate the database. The code is in the file name call “CRA_MySQL.sql”.

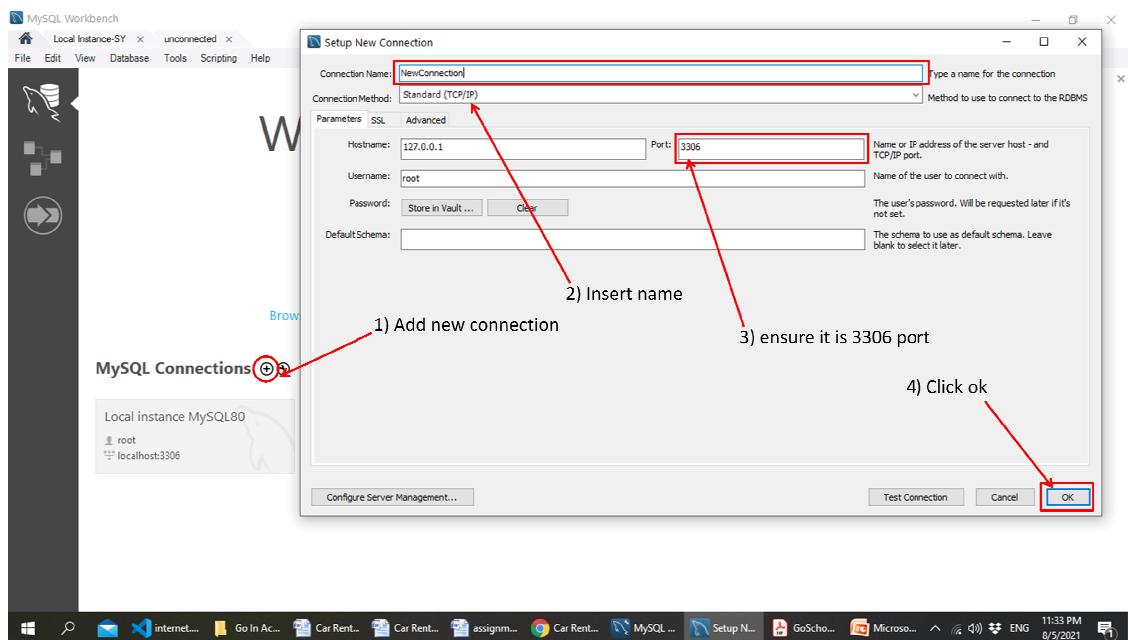
2. Data

Total there are 3 tables contain the 3 type of data as above mention.

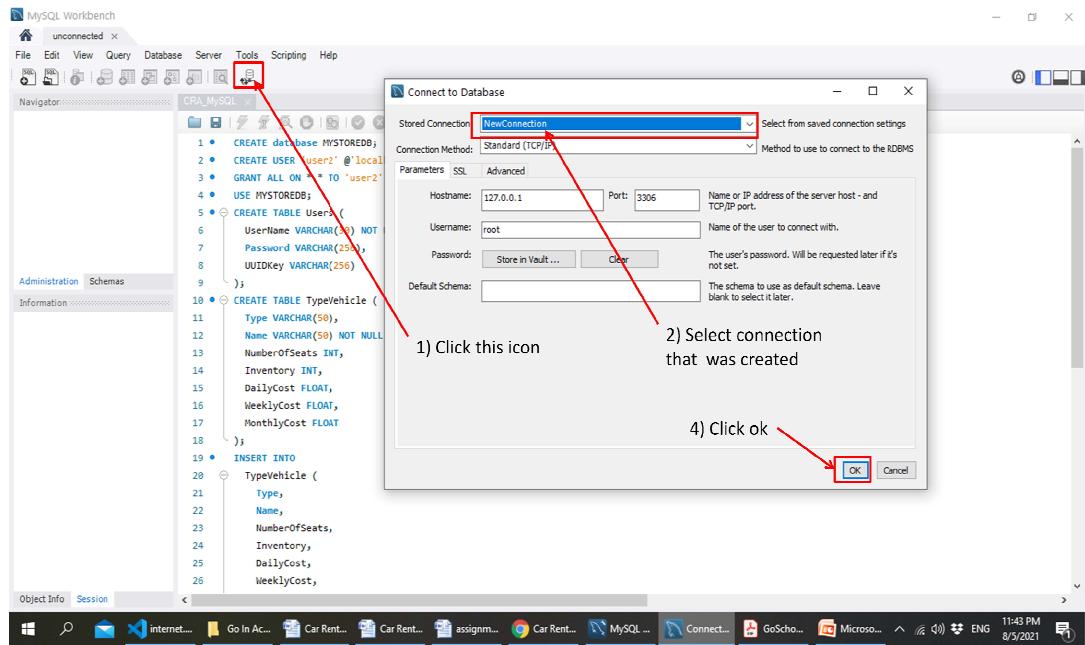
- Car details
- Customers details
- Bookings details

3. Steps to create

1. Add new connection for the database.



2. Open file “CRA_MySQL.sql”.



3. Execute the code by click the icon below.



Instructions for user on browser

1. New User Registration

This is the page for the 1st time user. They need to do registration before entering.

The screenshot shows a registration form titled "Car Rental App - New User Registration". At the top right, there are links for "Hello!" and "Log in". The main area contains a message "Please enter email and password for registration!". Below this are three input fields: "Email", "Password", and "Confirm Password". At the bottom are two buttons: "Submit" and "Log In".

If there are comment, error or wrong input type, will notify the user. The following are some of messages:

- Please enter correct email!
- Please use other user name!
- Confirm Password is not same!
- New User Registration Done! You may process to log in.

Once everything done. The user detail will store into database. The password will be hashed using crypto/bcrypt package before stored.

2. Log In

User require to do verification (log in) before entering. For those log in before will have a recode in cookie so that next time they can continue to access.

Car Rental App - Log In

Hello!

Please log in with username and password!

Email
 Password

[New User Registration](#)

If there are comment, error or wrong input type, will notify the user. The following are some of messages:

- No value found in User Name!
- The User Name or Password is incorrect!

When user do log in, server will check user name with existing user record and then hashed again the password by using crypto/bcrypt package to match the existing hashed password.

3. Main Page

Once user has logged in, it will automatically redirect to the main page. And then, there are some menu can let user to choose.



Menu

- Rent a car
- Current booking
- Change Password

4. Rent A CAR Page

Car Rental App - Rent A Car Account: wsy@com Log Out

Your have selected - "Fit"

Please select duration for the rental:

Start From: End To:

Main Menu Rent A Car Current Booking Change Password

5. Current Booking Page

Car Rental App - Current Booking Account: wsy@com Log Out

Here is your booking records

Booking ID	Car Model	Start Date	End Date	Day/s	SGD	Total SGD
CRA.2021-001	HUSTLER	2021-05-29	2021-05-30	1	\$55.00	\$55.00
CRA.2021-002	PREMIO	2021-05-21	2021-05-22	1	\$55.00	\$55.00
CRA.2021-004	Sienta	2021-05-28	2021-05-27	1	\$55.00	\$55.00
CRA.2021-005	Spacia	2021-05-08	2021-05-28	20	\$47.00	\$940.00

Main Menu Rent A Car Current Booking Change Password

6. Change Password Page

Car Rental App - Updated Password Account: wsy@com Log Out

Please enter user name and password to verify!

Please enter new password and confirm password!

Main Menu Rent A Car Current Booking Change Password

7. Log Out Page

The screenshot shows a mobile application interface. At the top, there is a blue header bar with the text "Car Rental App - Log Out". To the right of the header, there are two links: "See You Again!" and "Log in". The main content area is white and contains a message: "You have loged out from the app! Thank you for visiting...".