Java Developer Summative Project

User Guide of VVS Car Rental Portal

Prepared By:
Chua Kiat Leong
17th May 2021

Introduction

This document serves as a simple user guide on how to navigate and use the portal. Some simple test cases have been done as well to test certain functionalities of the portal. The Car Rental Portal is the main project requirement as the car management system while the Customer Portal is just an add-on to the main project. Both the sites are linked (sharing the same database) so any bookings made on the Customer portal will be reflected on the Car Rental Portal as well.

Both applications are currently hosted on Heroku.

Car Rental Portal → https://vvs-car-rental.herokuapp.com

Customer Portal → https://vvs-customer-portal.herokuapp.com

Here are the login credentials for the Car Rental Portal hosted on Heroku: -

Username	Password	Roles
admin	password123	Admin
manager	password123	Manager
user2	password123	User

Do note that any new user created in the portal has a default password of "password123". New user will be able to change their password when they login to their own account.

For local runtime of the application, do note that you will have to create a user with an Admin role in your SQL database. Application properties will also have to be edited to your own settings.

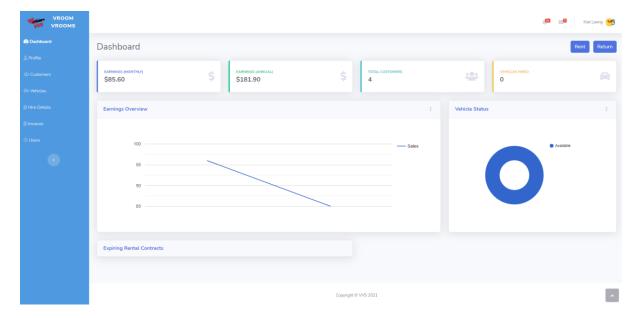
Login Page

When the application is loaded, you will always see the login page first as login is required before accessing the portal. Login with the credentials provided in the introduction above.



Forgot password function as of now is not working yet.

Once you are logged in, you should see the dashboard.

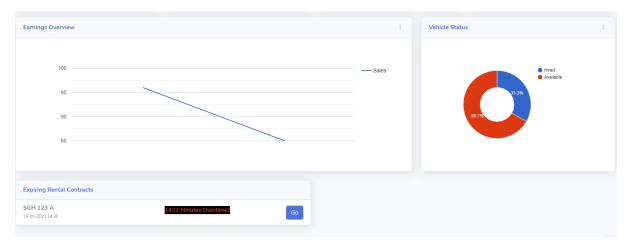


Dashboard

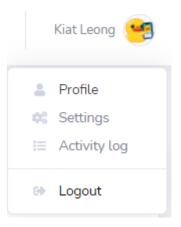
There are a few things in the dashboard. Firstly, the navigation bar is on the left, where you can navigate to different pages like customers, vehicles and invoice etc. This navigation bar will be on all pages in the application.



The 4 boxes here show the following: monthly earnings, annual earnings, total customers and vehicles. These will be updated as the values change in the database.



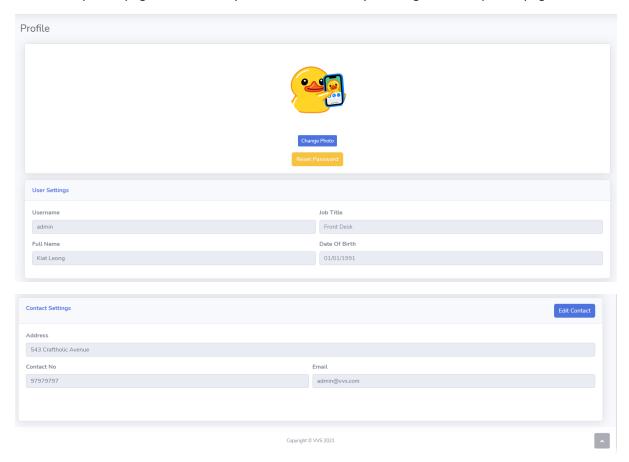
The next 3 boxes display earnings overview over the year, current vehicle status and expiring rental contracts. The expiring contracts will only display when the time to the end of contract is 1 hour away.



When you click on your own name, a dropdown like this will appear. Currently only the profile and logout have active links, where by profile will bring you to your profile page and logout will log you out of the application.

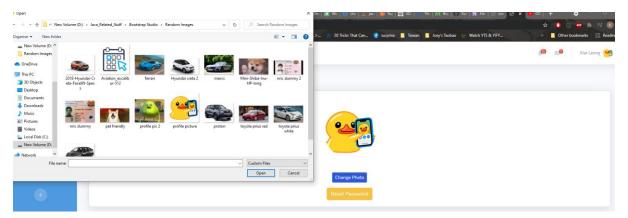
Profile

Next is the profile page. This is what you should see when you navigate to the profile page.

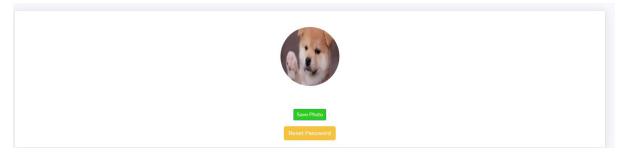


On the profile page, user is only allowed to update his/her profile picture, password and contact settings. For the user settings, the user will have to contact the admin of the portal to update/amend the user details.

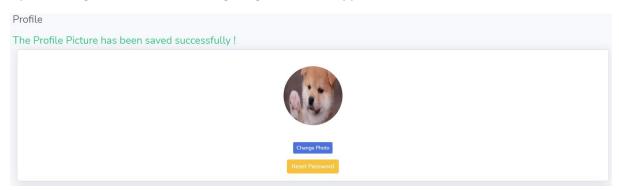
When the user clicks on change photo, a file system window will pop up, allowing user to select the picture he/she wants as his/her profile picture.



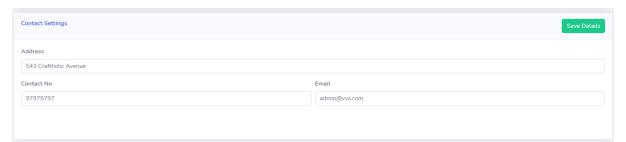
Once the user selects the preferred picture, the new picture will be displayed and user has to click on "Save Photo" to save the picture.



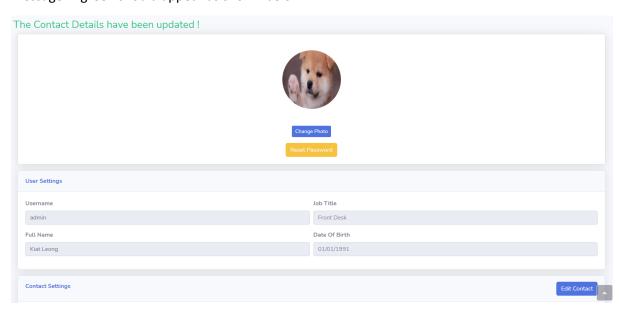
Upon clicking save, a success message in green should appear as shown below.



When the user clicks on "Edit Contact", the fields will become editable and the user can edit the fields in the contact settings.

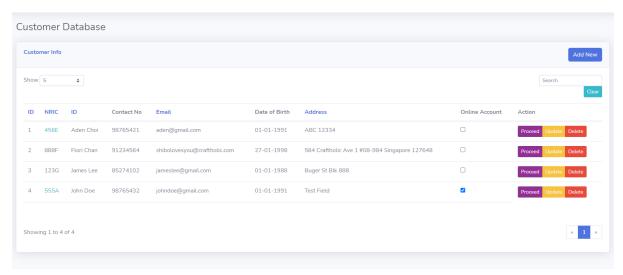


Once done, the user has to click on "Save Details" to update the settings. Upon saving, a success message in green should appear as shown below.



Customer

This page should display when the user navigates over to the customer page.



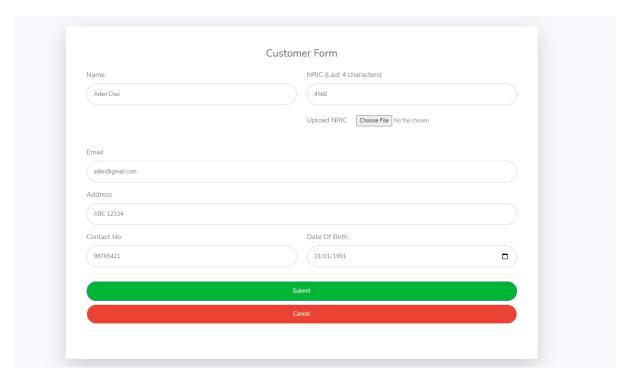
Here are some functions that are on this page.

First user is able to select the number of records to be displayed on the page. They are also able to search for specific records base on the columns (other than the online account). User is also able to sort the records based on the ID, NRIC, Email and Address (the words are in blue if they are sortable). Customer who has created an online account in the Customer Portal will have the online account column checked. Do note that the function for online account has not been fully developed yet (if customer has an account registered in the Car Rental Portal, the customer might not be able to create an account in the Customer Portal if their email record is found in the database.)

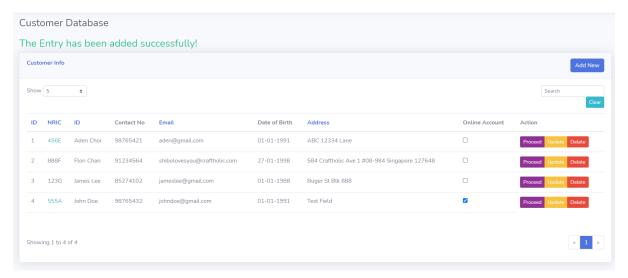
If there is an NRIC image attached to the customer, user will be able to view the attached NRIC by clicking on the NRIC number in the NRIC column.



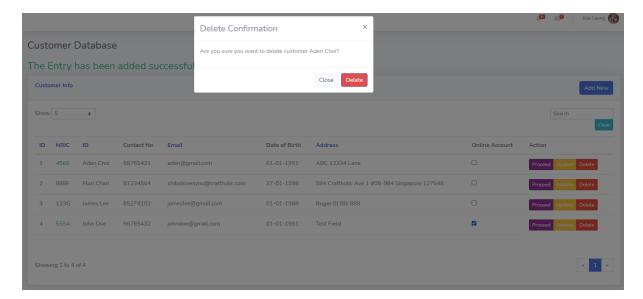
In the Action column, there are 3 buttons [Proceed, Update, Delete]. Process for the proceed procedure will be described in a section later on. User will be able to update the customer record. Upon clicking Update, the customer form will be displayed. [Take note both the Add New and Update shares the same form, with the only difference being the Add New shows a new empty form where as update shows the record of the selected customer.]



User can update any of the fields in the form. Upon submitting, user will be redirected back to the customer page, with a success message displayed as shown below.

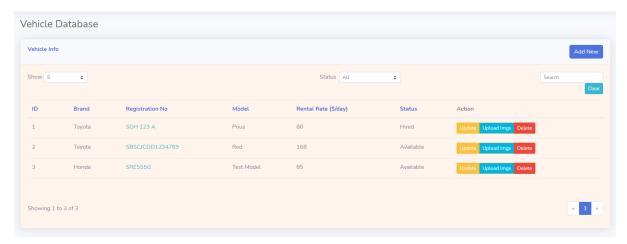


If user wants to delete a customer record, user can click on delete. (Do note, customer record cannot be deleted if the customer has at least booked a car before.)



Vehicle

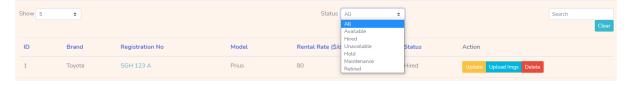
In the vehicle page, this page should be displayed upon loading.



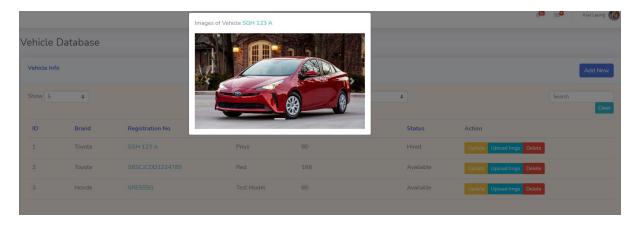
Here are the functions available in this page.

Same as before, user is able to select how many records to display per page. User is also able to search for records base on keyword typed in the search box. User can also sort the records based on the ID, Brand, Registration Number, Model, Rental Rate and Status.

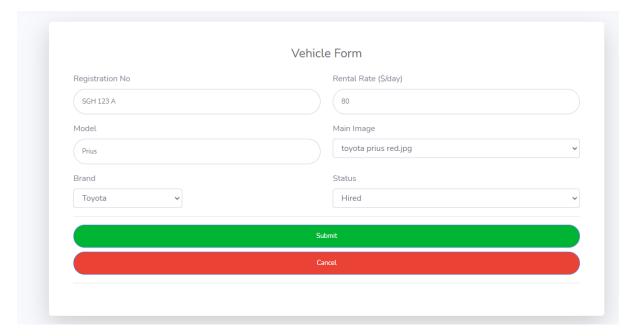
In this page, user is able to filter the vehicles based on the status of the vehicles for instance, if Available is selected, only vehicles with "Available" status will be displayed on the page.



If images of the vehicles are uploaded, user is able to click on the registration number (it will be a clickable link). If there are multiple images of the vehicle, user can scroll through the images by clicking on the arrow in the carousel as shown below.

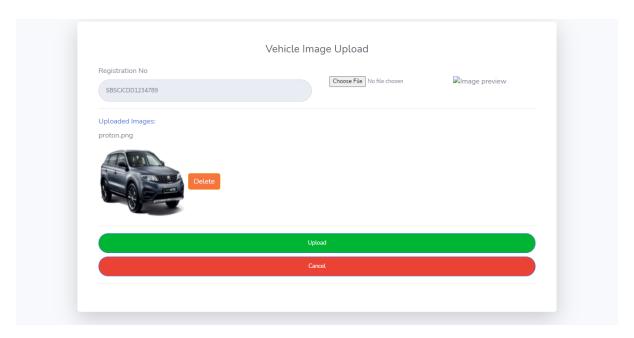


In this section, only users with Manager or Admin role are able to create new record, update or delete existing records. Adding new record and updating existing record shares the same form, where the Add New form will display an empty form and the Update will display the form with details of the selected record.

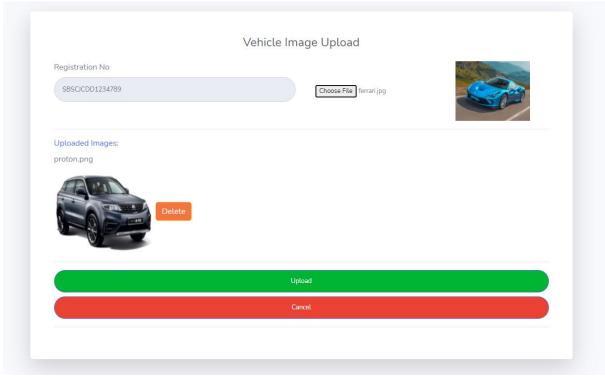


User can fill in the fields in the form. For the Main image field, the imaged selected in this field will be displayed in the Customer Portal. If there are no images uploaded, no option will be available for selection. Upon submission, user will be redirected back to the Vehicle page.

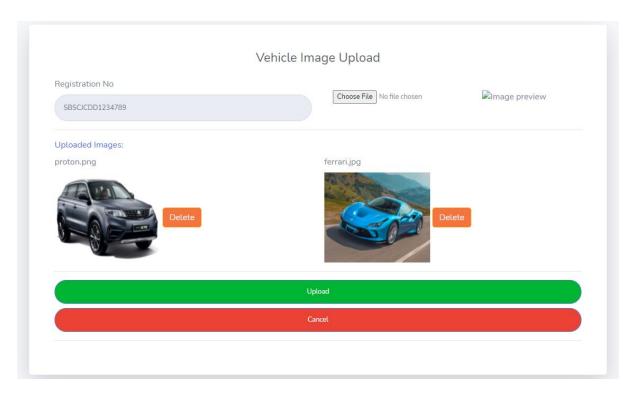
To upload vehicle images, user will select the Upload Imgs and the upload images form will be displayed.



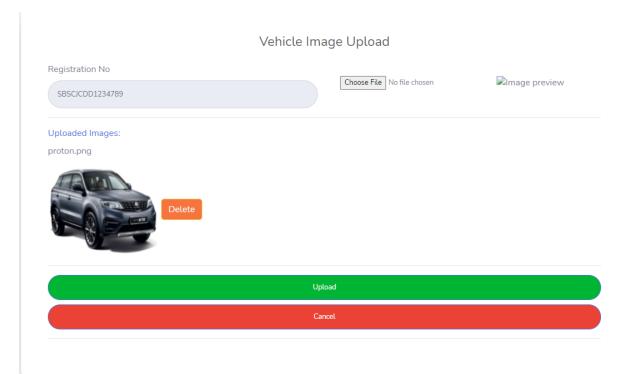
In here, user can upload as many pictures as they want. Uploaded images will be displayed in the uploaded images section. A preview will be shown once the file is selected.



To save the upload, user has to click on upload. Then the image will be shown in the uploaded images section.

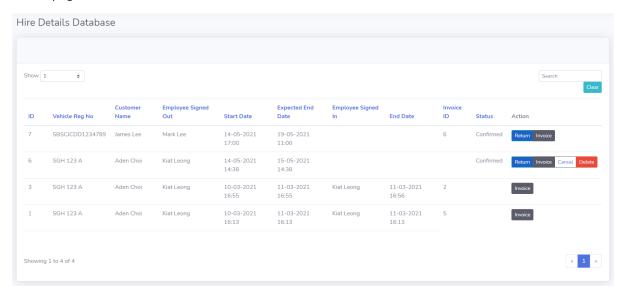


User can also delete the image here by clicking on delete beside the image they want to delete.



Hire Details

In this page, the hire details records will be shown.



Same as before, user is able to select number of records to display as well as searching for records base on keyword. User is also able to sort the records base on the columns shown.

In the action column, there are 4 actions available [Amend function has not been implemented yet]. Return will bring the user to the Hire Details form where the user will input the end date of the rental.

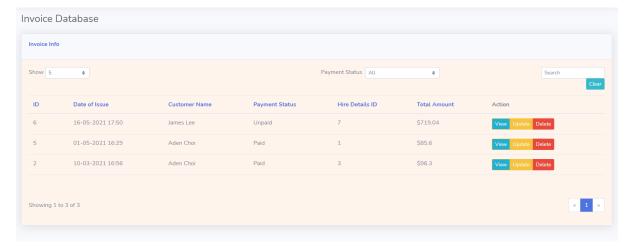
Invoice simply means invoicing the selected record. Upon clicking, the user will be directed to an invoice form which the user has to input the invoice date. More details will be provided in later section.

Cancel means cancelling the selected booking.

Delete means deleting the booking details from the database, which only the manager and admin are allowed to do so.

Invoice

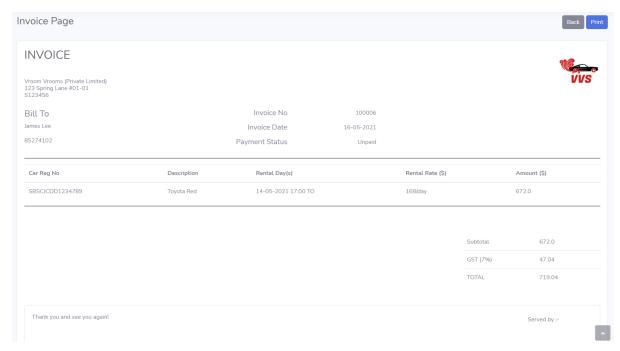
In this page, the invoices will be shown



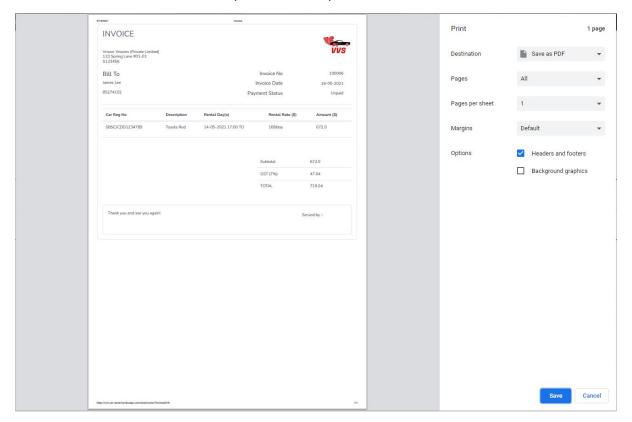
Other than the standard selecting number of records to be displayed as well as the search function, user is able to filter invoices base on payment status. Sorting is also available in this page.

There are 3 functions on this page, View, Update and Delete.

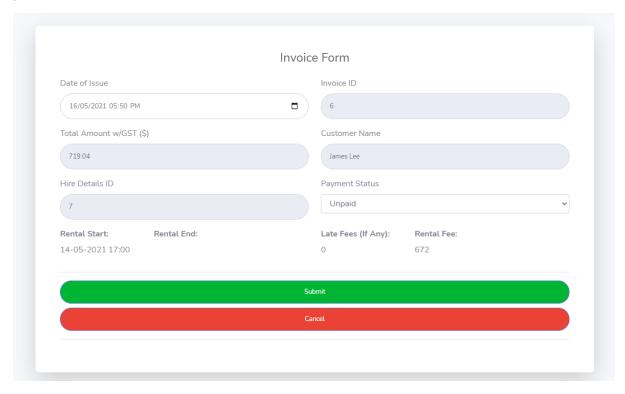
For View, user is able to view the invoice receipt which is shown below.



In this page, user can print the invoice by clicking the print button. This will bring up the next page, where user can then select to either print or save as pdf.

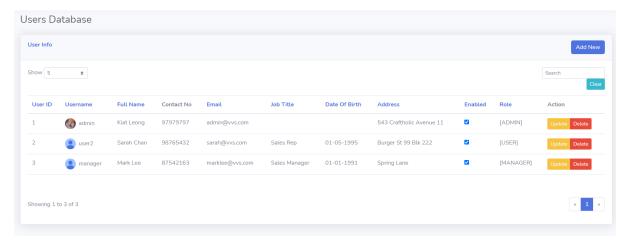


For the update function, user can update the invoice date and payment status. More details will be provided in the later section.

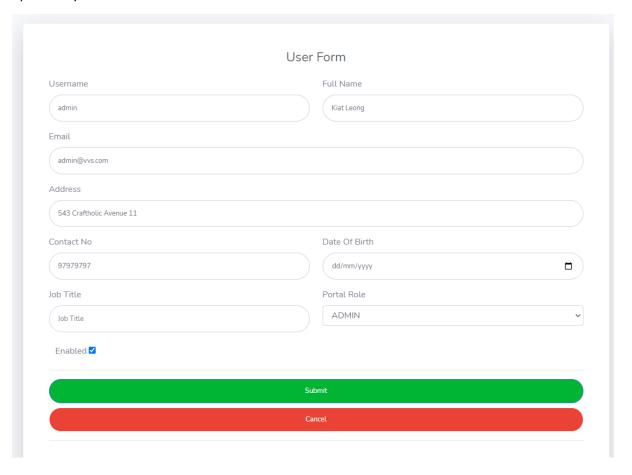


Users

This page is only available to the Admin of the portal. So other users are not able to navigate to this page and the Users will not be shown in the navigation bar.



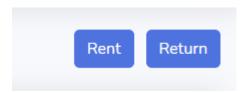
The admin will be able to add new users or update current users in the database. The admin can update any of the fields in the form.



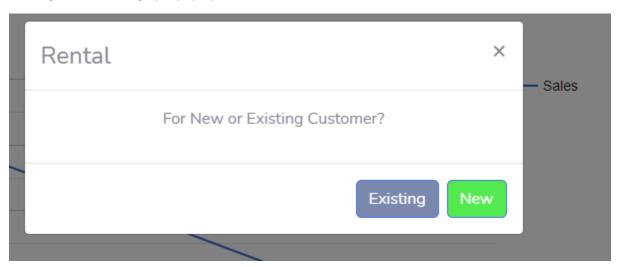
Booking Process

Rental

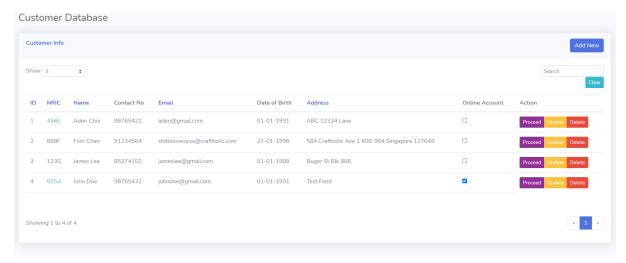
User can start the booking process in the dashboard.



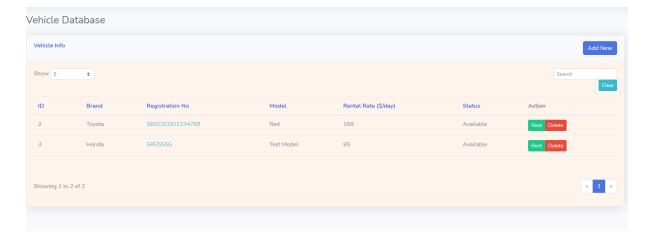
Clicking Rent will bring up a pop up like this.



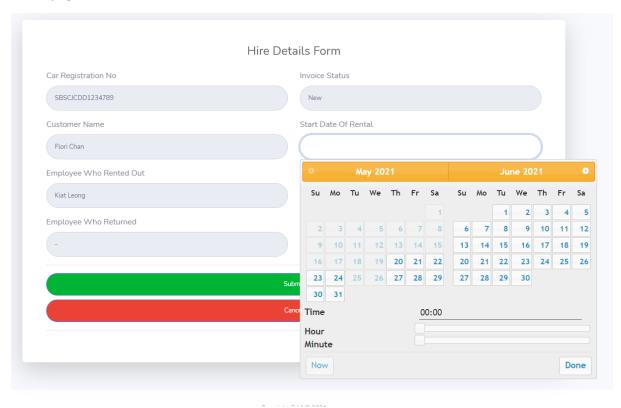
Selecting existing brings user to the customer page while new brings user to a new customer form. The process will start after selecting a customer.



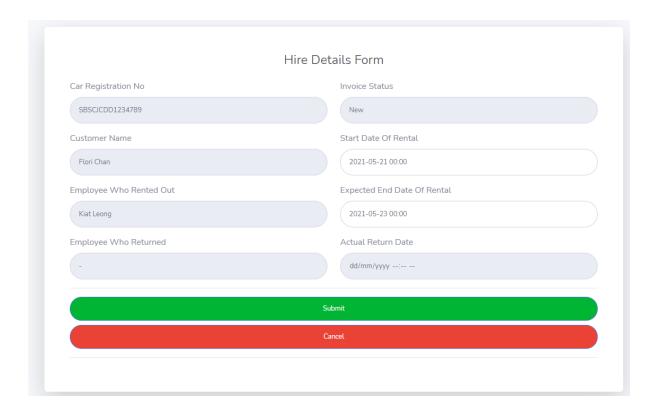
From this page, on the record of the customer that the user wants to proceed with, select Proceed.



In this page, select the vehicle to rent.



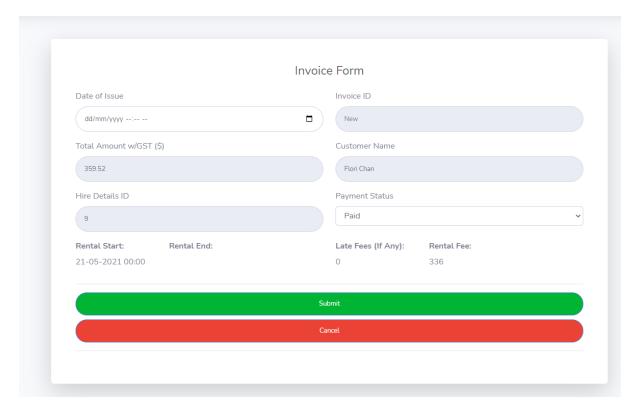
Then select the start date and expected end date of the rental. If vehicle is unavailable on certain days, the dates will be blocked out.



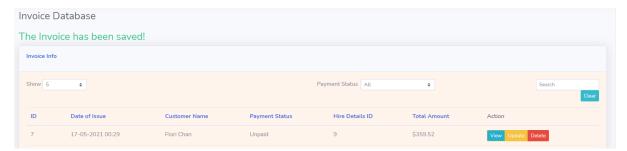
Upon submission, a success message will be shown as below.



User can generate an invoice by selecting the invoice.



Then select the date of issue and payment status before submitting. Upon submission, a success message will be displayed.

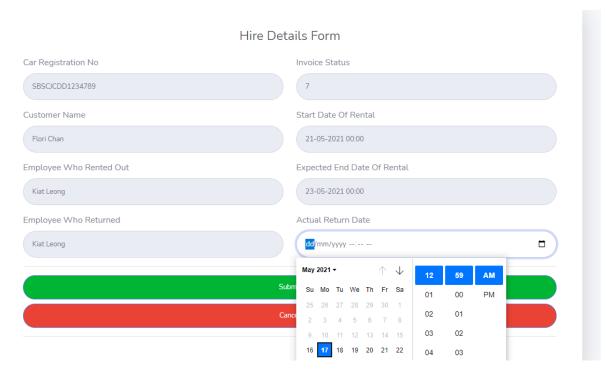


Return

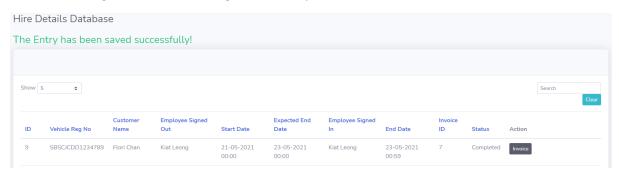
To return a car, select return from dashboard or go to the hire details page.



From there, select return on the booking. Then in the form, fill in the actual return date and time.



After submitting, click on invoice to generate or update the invoice.



From there update/fill in the invoice date and payment status before submitting.

