

CAR INVENTORY MANAGEMENT SYSTEM

DOCUMENTATION

Structure :

- The CIMS is a web app which has four user types - PURCHASING, PROCESSING, SALES and ADMIN.
- ADMIN holds the top rights of the app and can manage, view or delete any data.
- Other user types have rights as instructed to the developer.

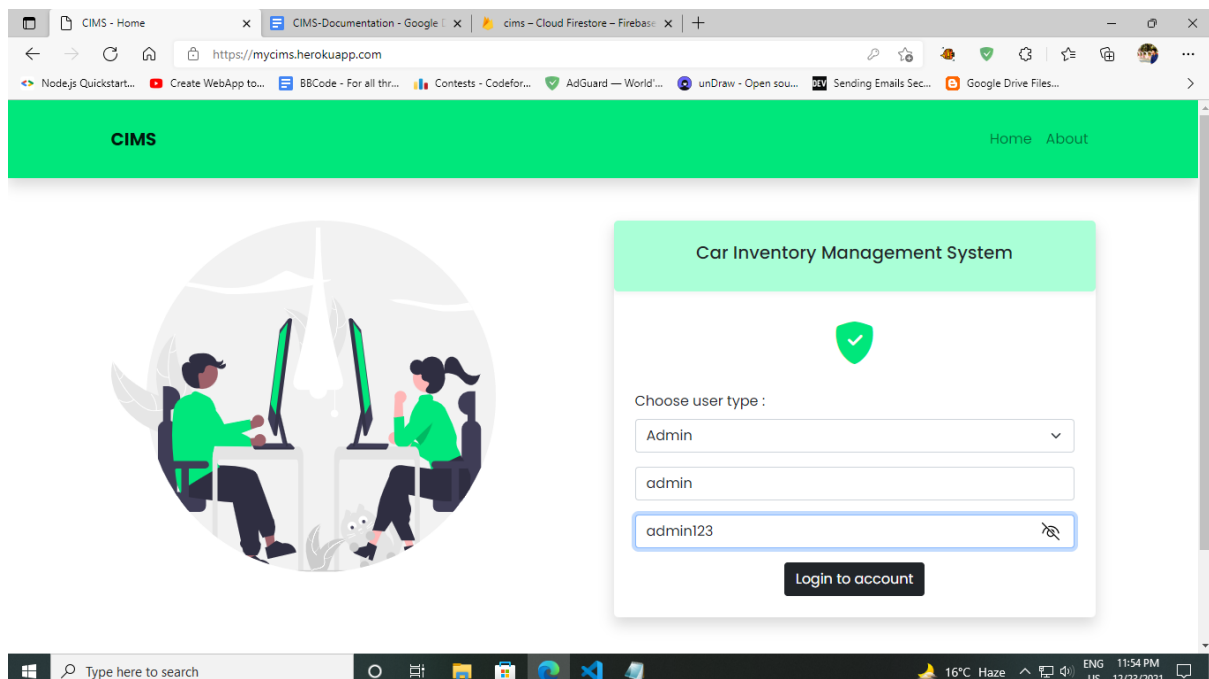
Getting started :

For your convenience the CIMS web app is hosted on a free server provided by Heroku. CIMS is accessible from this link :

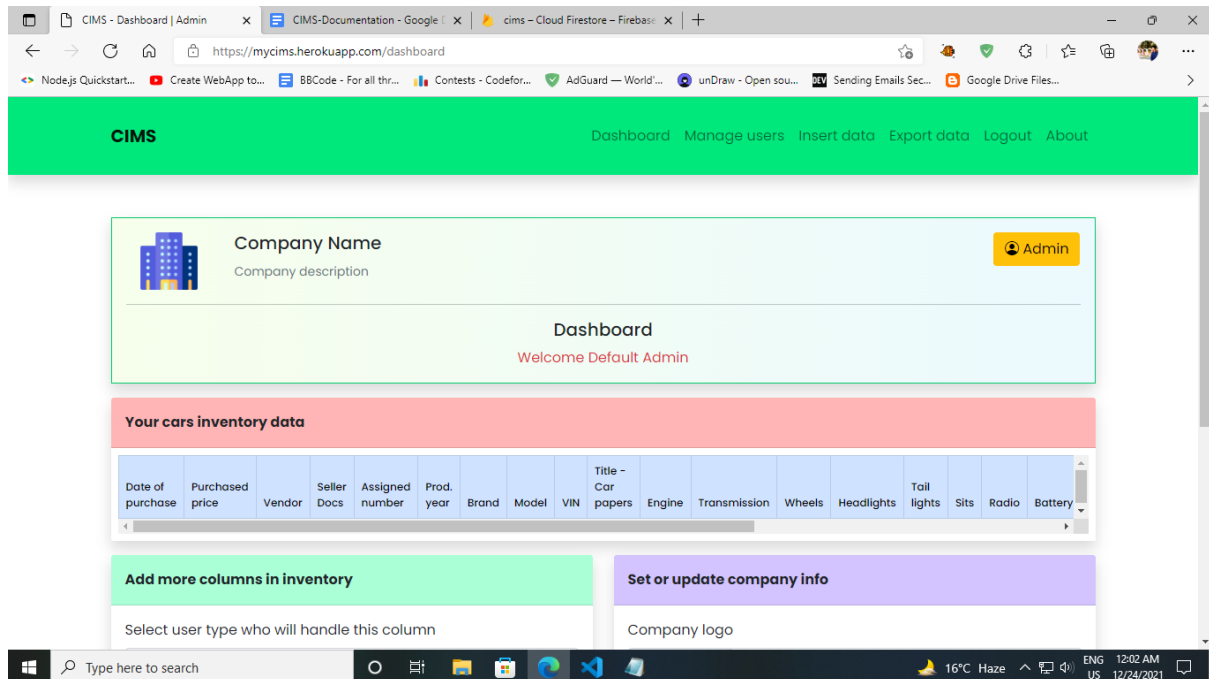
- [CIMS - Home \(mycims.herokuapp.com\)](https://mycims.herokuapp.com)

Admin usage :

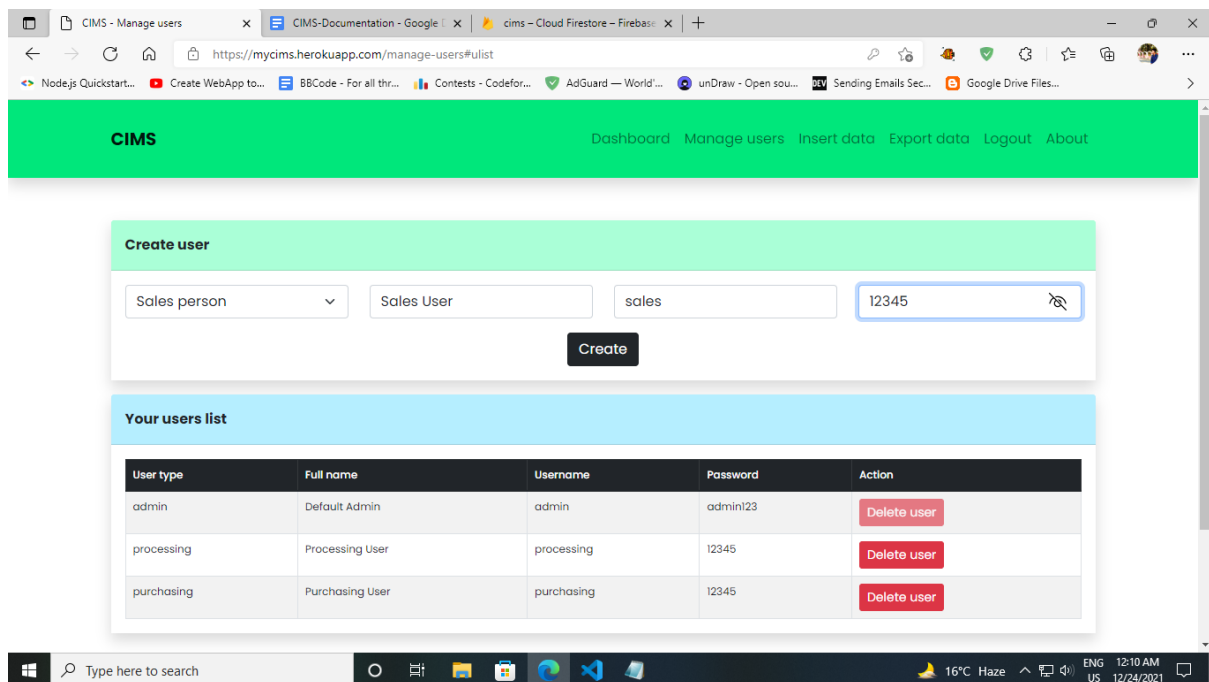
- There is a default ADMIN already created. User credentials as below screenshot to login as default admin. **[Username : admin | Password : admin123]**



- You'll find your ADMIN **Dashboard** after logging in. You can create your user accounts from **"Manage users"**, insert any data in inventory from **"Insert data"** etc. Company logo, name, description can be changed from Dashboard's **"Set or update company info"** tab.



- Now it's time to create users to start using this app effectively. Click **"Manage users"**. Then enter the user details for the new user and create the account. Each of the created user will login from the home page using the **username and password** you set for them.



- An ADMIN can also insert any **purchasing, processing or sales** data. Click “Insert data” to do so. Fill in the required fields and save the data. Note that inserting **Processing and Sales** data depend on availability of **Purchasing** data in the database. This applies to all users.

This means **you need to first save Purchasing data of a car with an unique Assigned Internal Number**.

Note that if you insert **Purchasing** data entering an **existing internal number** previous purchasing data of that number will be **overwritten**.

The screenshot shows a web browser window with the URL <https://mycims.herokuapp.com/admin-inv-insert>. The page has a green header with the CIMS logo and navigation links: Dashboard, Manage users, Insert data, Export data, Logout, and About. The main content area is titled "Insert data in your inventory" and contains a form for "Purchasing data part".

The form is divided into two columns:

- Left Column:**
 - Date of purchase (mm/dd/yyyy)
 - Purchased price (\$)
 - Vendor / Seller
 - ID of Seller (Choose Files, No file chosen)
 - Assigned internal number (unique)
- Right Column (Car papers):**
 - Choose Files (No file chosen)
 - Car production year
 - Car brand
 - Car model
 - VIN (Serial number)

- ADMIN can add more columns in the database. To add an extra column **Scroll down in ADMIN Dashboard**, enter column name and which user will have access to this column.

The screenshot shows the CIMS Admin Dashboard with the URL <https://mycims.herokuapp.com/dashboard>. The dashboard has a table with columns: Date of purchase, Purchased price, Vendor, Seller, Assigned number, Prod. year, Brand, Model, VIN, Title - Car papers, Engine, Transmission, Wheels, Headlights, Tail lights, Sits, Radio, and Battery. Below the table, there are two main sections:

- Add more columns in inventory:**
 - Select user type who will handle this column: Purchasing person (dropdown)
 - The selected user type will be able to insert and view data in this column.
 - Extra col 1 (text input)
 - Add column (button)
- Set or update company info:**
 - Company logo (Choose File, No file chosen)
 - Company name (text input)
 - Company description (text input)
 - Save (button)

- To add data in extra columns, navigate to the **"Insert data"** page and scroll down. Fill in the details and save data. The selected user who has access to this extra column can also add data in this column from his dashboard.

Other user's usage :

- Purchasing, Processing and Sales** users can login to their dashboard, insert and view data from columns for which they are permitted to. They can also **insert and view** data in **Extra columns** added by ADMIN for them.

- Sales users and ADMIN can click “**Export data**” to export the **entire data in the database** as an **XLSX** file which will be downloaded automatically. Then it can be opened in **MS EXCEL** and printed with formatting as you want.

Infrastructure :

- This web app is using Free plan Google Firebase’s **Firestore Database** to store its data & **Firestore storage** for storing uploaded documents.

Firebase pricing details : [Firestore Pricing \(google.com\)](https://firebase.google.com/pricing)

- The app is hosted using **Heroku** free dyno which is sufficient for your use case. As it’s hosted on the web, you can access the **CIMS app** from any device anytime using the internet.
- The Heroku retrieves app’s code from a **GitHub** account listed below.

Credentials :

I created a google account for this project purpose and to build its infrastructure. All the required credentials are listed below. Don’t lose any of it otherwise the app will be down. Use below credentials to login to respective services.

- **Google -**

Email : cimsnodeapp@gmail.com

Password : cims0109

Use this google account to access the **firebase console** where your cloud database and cloud storage is present.

Firebase console link : [Firestore console \(google.com\)](https://firebase.google.com/console)

- **Heroku -**

Email : cimsnodeapp@gmail.com

Password : cims0109#

- **GitHub -**

Email : cimsnodeapp@gmail.com

Username : cimsapp

Password : cims0109

Please add a recovery phone and email to each of these accounts for keeping them secure.

Manual deployment :

- Run the **node-v16.13.1-x64.msi** file inside the supplied ZIP file to install **Nodejs** runtime on your PC.
- Install **Nodejs** by just clicking Next and Install keeping everything default.
- After successful installation of Nodejs, Open **command prompt** and type

```
node -v
```

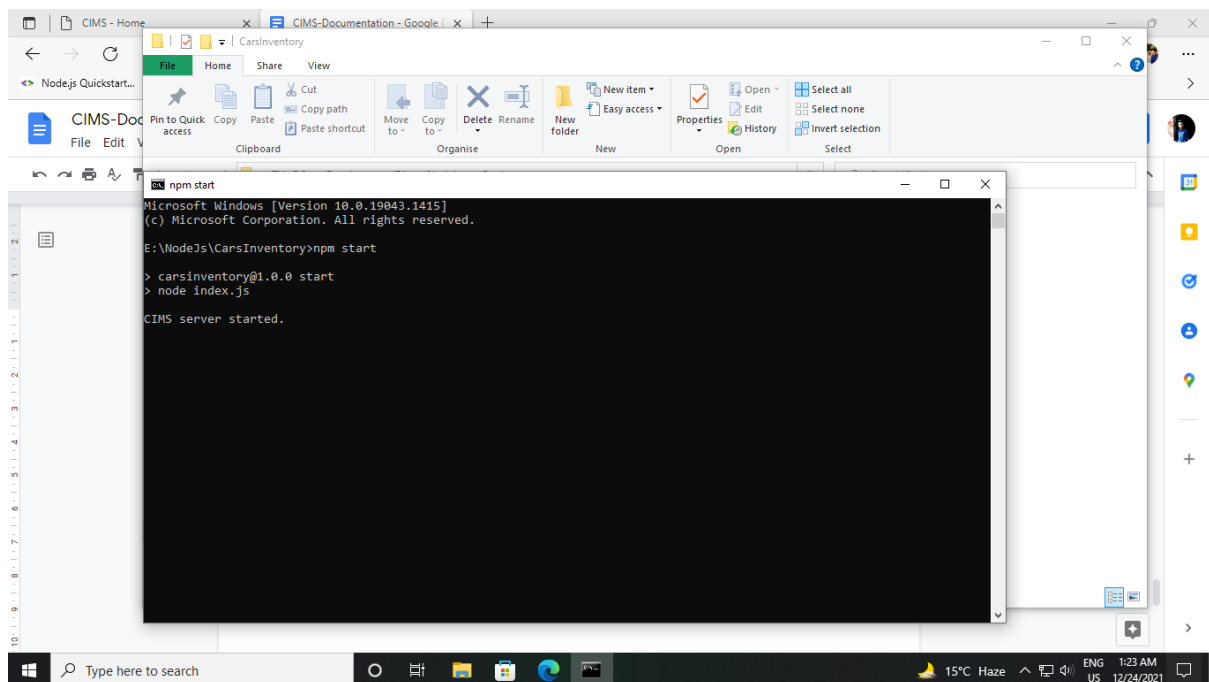
Click enter. If it shows a version number, then installation is correct.

- Now open the **command prompt** inside the **CarsInventory** folder which is the project's root folder. Now type following commands -

```
npm install
```

After it's completed type -

```
npm start
```



Now the server should start and the CIMS app can be accessed using <http://localhost:4545/> this link. Here **4545** is the PORT number.

- To host this app in your own domain, consult with a hosting provider who supports **NODEJS** hosting and contact them for further deployment procedure. That's it.

Caution :

- Never share **sak.json** file inside **configs** with anyone because it's the key which provides you access to **firebase**.

Revision updates :

- While inserting data, now **the app will intelligently warn the users** when all the fields are **not filled up**. For **Seller ID & Car papers upload**, there is a checkbox **“Not available”** which will **disable** the blank check **warning for docs upload**.
- Admin can now set **Column importance as “Necessary” or “Skippable”** while creating extra columns and users will see the importance value attached with extra column names.
- **“Choose assigned internal number”** selection boxes will now show the respective **car brand and model** names **attached** with the internal numbers. So you **should add brand and model** while inserting purchasing data to get this advantage.
- Sales user’s dashboard now has two data tables, **one for only sales data** so that he can keep track of his fields easily. **Another** table below, which shows **whole inventory data** as instructed.
- **DON’T USE “Insert data”** boxes for **updating data**. Insert data boxes are only for inserting new data. Separate **“Update data”** boxes are added for every user. Use them when you want to **UPDATE existing data**.

But you can use **Extra columns’** data insert or update boxes for **both insert and update** purposes in extra columns. This combined feature is only for Extra columns and won’t overwrite other columns' values.

-THANK YOU-