WebApp Assignment

Codebrick

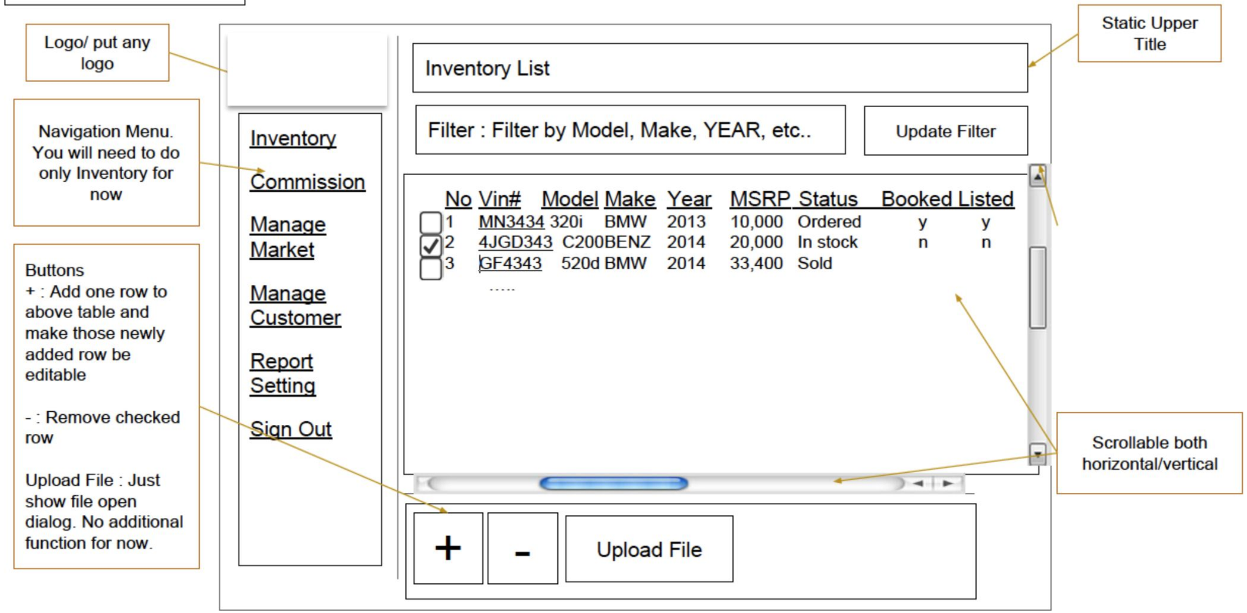
Task Summary

- You need to create a SPA(single page web application) with AJAX, consists of front-end scripts and back-end server.
- Create a web app according to the following slides and submit
  - Full source code of both front-end and back-end
  - *(Optional)* Run the service on AWS micro instance (free tier) and provide the URL

Car Inventory Page

Inventory

Main inventory page where dealer can view/manage their entire inventory



Logo/ put any logo

Navigation Menu. You will need to do only Inventory for now

Buttons

+ : Add one row to above table and make those newly added row be editable

- : Remove checked row

Upload File : Just show file open dialog. No additional function for now.

Static Upper Title

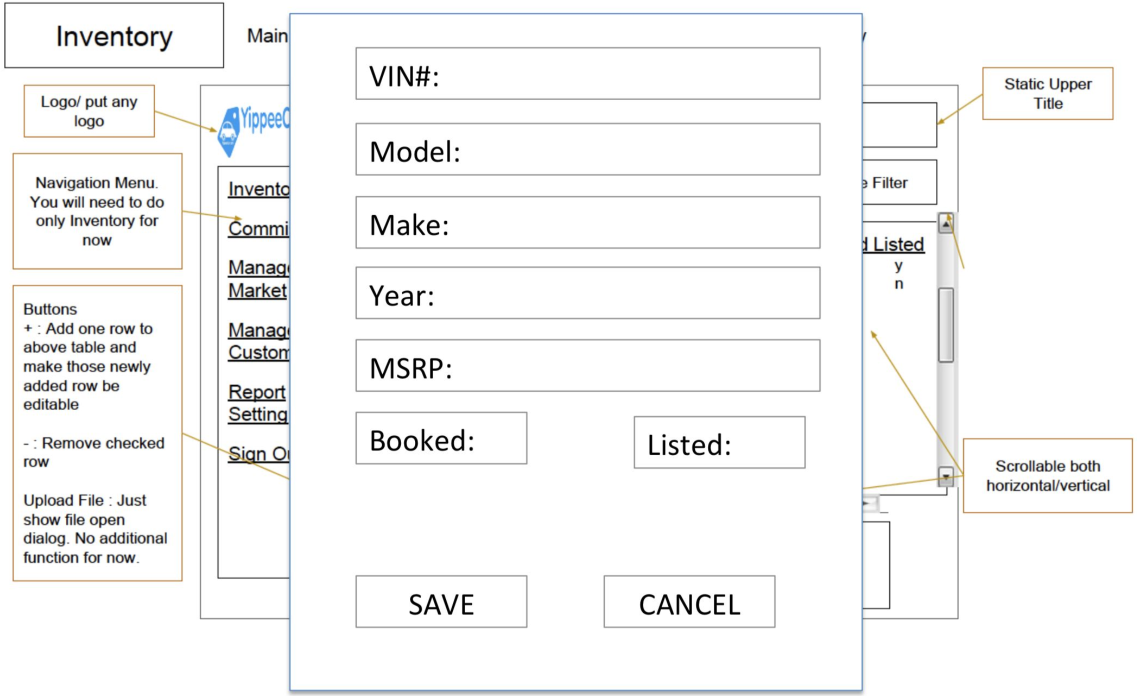
Scrollable both horizontal/vertical

Inventory List

Filter : Filter by Model, Make, YEAR, etc..

	No	Vin#	Model	Make	Year	MSRP	Status	Booked	Listed
☐	1	MN3434	320i	BMW	2013	10,000	Ordered	y	y
☑	2	4JGD343	C200	BENZ	2014	20,000	In stock	n	n
☐	3	GF4343	520d	BMW	2014	33,400	Sold		
		.....							

Add Dialog



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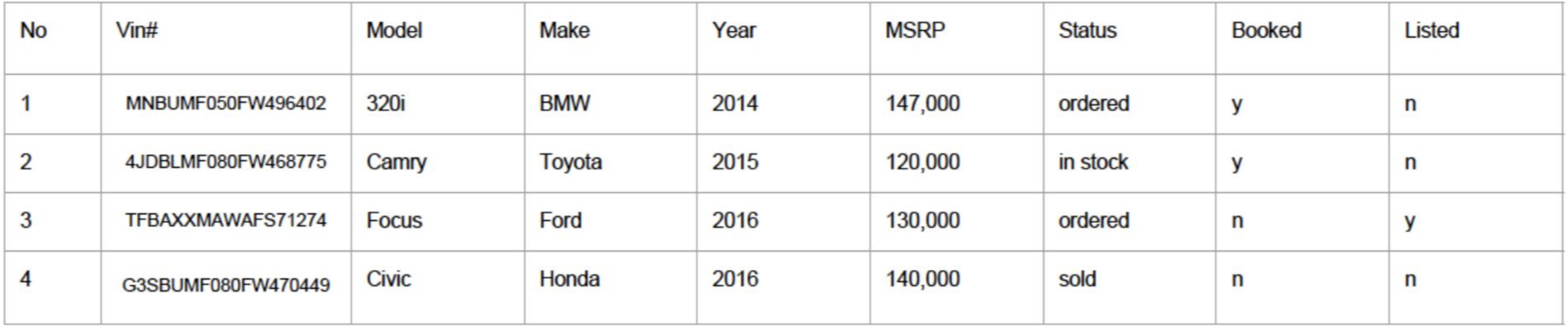
Sample Data



No	Vin#	Model	Make	Year	MSRP	Status	Booked	Listed
1	MNBUMF050FW496402	320i	BMW	2014	147,000	ordered	y	n
2	4JDBLMF080FW468775	Camry	Toyota	2015	120,000	in stock	y	n
3	TFBAXXMAWAFS71274	Focus	Ford	2016	130,000	ordered	n	y
4	G3SBUMF080FW470449	Civic	Honda	2016	140,000	sold	n	n

- You don’t have to use a database for the job. You can just simply save these onto the local file system as *.json* format.
- Or, it’s optional you may also use a database. SQL (MySQL) or NoSQL (MongoDB), it’s up to your choice.
- Or, you can use ORM such as Beego as well.

Technical Requirements

- Front-end
  - **Use a front-end framework**. It is recommended to use VueJS but other frameworks such as React are acceptable.
  - **Use a UI material design framework**. Vuetify is recommended but other design frameworks such as Material-UI are acceptable.
  - **Use a state management library**. Vuex is recommended but other libraries such as Redux are acceptable.
  - **Use a router library for front-end frameworks** such as Vue-router (https://router.vuejs.org/) or react-router.

Technical Requirements

- Back-end Server
  - **Go is recommended**, but you can use other languages/frameworks such as Java with Spring Boot if you want.
  - Make it **RESTful**.
  - **Use a router library** such as gorilla or http router for Go.
    - http://www.gorillatoolkit.org/
    - https://github.com/julienschmidt/httprouter