EGCO427: Assignment 1 (20%) – MAX. 2 members/group

Create the "Contact List" web application by using Node.js and/or Vue.js (v3). This web application must contain the list of features below. Your Vue project name must be "Contact<Last 4 Digits of StudentID>" such as Contact2345. Select ID from one of your group members There are 5 marks deduction if you do not set the the project name according to the assigned format.

- (1 mark) Use MongoDB for your database.
  - o Set your database name: ContactList
  - o Set your collection name: Contacts
- UI can be download from Formatic UI
  - o Semantic UI: https://github.com/nightswinger/vue-fomantic-ui
- The images can be downloaded from this URL below:
  - o https://nightswinger.github.io/vue-fomantic-ui/views/card
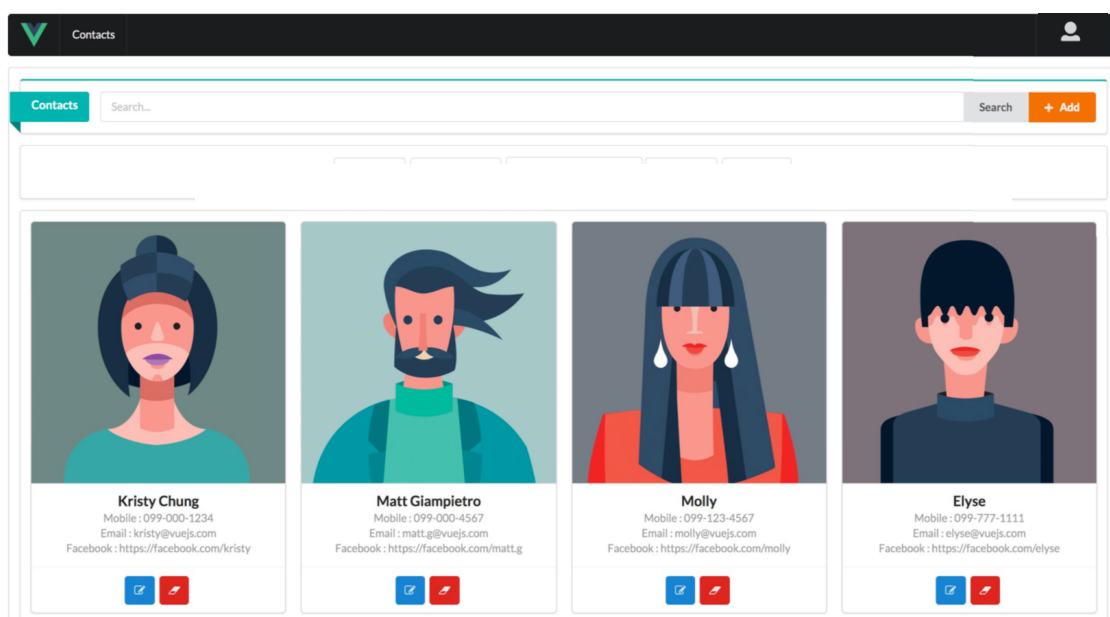- For UI, try to make it similar to the example below but may not exactly the same as example

Figure 1 Contact List Page

1. Login Page: (2 marks) User can access the contact list in Figure 1 after their login.
   - You must create a simple login page (Figure 2) that can use to check username and password whether they can be matched with one of usernames and passwords in the database.
   - Set one of your accounts in database must be:
     - o Username: bob   Password: 1234

Figure 2 Login Page

2. **New Contact Page: (2 marks)** When user clicks "+ Add" button (Orange button), it will go to "New Contact Page" as shown below. When "Save" button is clicked, the information in this form will be saved to database via "add" API.

Figure 3 New Contact Page

3. **Edit Contact Page: (3 marks)** When the user clicks at "Edit" button (Blue button), it will go to "Edit Contact" page. After the information has been edited and save button is clicked, the information will be saved to database.

Figure 4 Edit Contact Page

4. **Delete: (2 mark)** When user clicks at "Delete" button (Red button), that contact will be removed from database and also removed from Contact List page
5. **Search: (3 marks)** User can search a contact according to the FirstName or LastName.
6. **NODE API: (7 marks)** This web application must integrate with the REST API as shown below. Your NodeJS's filename to run all API must be **"server.js"**
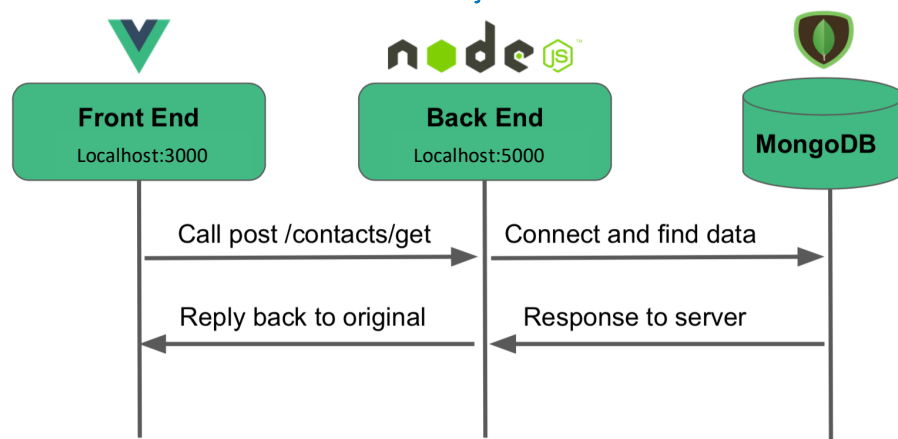

Figure 5 REST API

Example of CRUD for REST API

#	Method	URL	Response Message

1	post	http://localhost:5000/contacts/
		Add new contact
			```{```
			``` "cid" : "<Contact id>",```
			``` "firstname" : "<Contact firstname>",```
			``` "lastname" : "<Contact lastname>",```
			``` "email" : "<Contact email>",```
			``` "mobile" : "<Contact mobile number>",```
			``` "facebook" : "<Contact facebook>",```
			``` "imageUrl" : "<Contact imake>"```
			```}```

2	get	http://localhost:5000/contacts/ Show all contact	
3	get	http://localhost:5000/contacts/:id Show one contact	

4	post	http://localhost:5000/contacts/:id
		Edit a contact
			```{```
			``` "cid" : "<Contact id>",```
			``` "firstname" : "<Contact firstname>",```
			``` "lastname" : "<Contact lastname>",```
			``` "email" : "<Contact email>",```
			``` "mobile" : "<Contact mobile number>",```
			``` "facebook" : "<Contact facebook>",```
			``` "imageUrl" : "<Contact image>"```
			```}```

5	delete	http://localhost:5000/contact/:id
		Delete a contact
			```{```
			``` "message" : "This contact has been deleted"```
			``` "firstname" : "<Contact firstname>"```
			```}```

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Submission (0 marks if you missed one of these steps below)

o Create the video demonstration of your assignment (.mov, .avi or .mp4) and upload to your bitbucket under "**Info**" folder.
o Use Mongo Atlas as your cloud database
o Deploy your Frontend and Backend to the Google Cloud server, Heroku or MS Azure server
o Upload your code to bitbucket and set your repository as a private repository. Then add my account: lalita.nar@mahidol.edu as your collaborator to your repository.
o Add the repository URL, your virtual host URL and the list of members in your group including student ID and Full name to **Readme.txt** and upload to your bitbucket under "**Info**" folder.
   ## Readme.txt
     ▪ Repository URL: http://bitbucket.com/username/ Contact2345
     ▪ Vue Server: http://username.firebase.app/Contact2345
     ▪ Node Server: http://username.gcloud.com/Contact2345
     ▪ Member:
         o Bob Cat ID: 60122345
         o Tom Cat ID: 60122456
o Submit only the bitbucket URL to Microsoft Team and only one submission per group