

Appendix B

Project Set Up Instruction

Github Link: <https://github.com/skrishan7/Thesis-Collaborative-UML-Modelling-Tool>

B.1 Initial Set Up

1. Download **Node.js** and follow the installation wizard.
2. Download **MongoDB Community Edition** and follow the installation wizard.
3. Open Task Manager and go to Services tab and located MongoDB. Right click to start service.
4. To set up a local MongoDB database in command interpreter, type the following commands

```
cd C:\
md "\\data\db"
"C:\Program Files\MongoDB\Server\4.2\bin\mongod.exe" --dbpath="c:\data\db"
"C:\Program Files\MongoDB\Server\4.2\bin\mongo.exe"
```

5. Clone project from Github Link above.
6. The pusher is set up to my account while the application will still be functional as long as my pusher account exists. However, in order to be able to see and debug requests being sent to pusher, it is recommended you set up your own account. Create a new account on **Pusher** and log in. In the Channels Tab, click create a 'New App' and follow the wizard. Go to your app and find the 'App Keys' details.
7. In Server folder of the project, locate *app.js* file and update pusher details with your app keys on *line 13*.
8. Go to command prompt and type

```
ipconfig
```

to identify your IP address. Replace '192.168.0.17' with your IP address on *line 24* in *app.js* for MongoDB connection. Updating this IP address will let you collaborate on multiple machines on your network. This address needs to be updated every time your IP address changes.

9. The IP address also needs to be updated in the following files Client folder:

- `protractor.conf.js` : `baseUrl` parameter on line 19
- `pusher.service.ts` : `baseUrl` parameter on line 8
- `uml.service.ts` : `baseUrl` parameter on line 8

B.2 Starting the application

1. In first command prompt, go to *SERVER* folder and type the following command to install dependencies..

```
./server> npm install
```

2. In second command prompt, go to *CLIENT* folder and type the following command to install dependencies.

```
./client> npm install
```

3. To start the server in first command prompt:

```
./server> npx nodemon
```

4. To start the client in first command prompt:

```
./client> npm start
```

5. The project can now be accessed at this URL:

```
http://< IP address >:4200
```