Requirements:

- MySQL Server
- Node JS, NPM, Nodemon

Installing MySQL:

- Run the following commands on your Ubuntu Terminal
 - ⇒ sudo apt update
 - ⇒ sudo apt install mysql-server
 - ⇒ sudo mysql_secure_installation
 - o Press Y, if prompted
 - Enter a password satisfying the given properties

Installing NodeJS and NPM:

- Run the following commands on your Ubuntu Terminal
 - ⇒ sudo apt update
 - ⇒ sudo apt install nodejs
 - ⇒ sudo apt install npm
 - o Press Y, if prompted

<u>Setting up the database from the given University_Database.sql</u> <u>file:</u>

- Open MySQL server on terminal using the following command
 - ⇒ sudo mysgl -u root
 - o Enter your ubuntu password, if prompted.
- Create an empty database named University Database in the following way
 - □ CREATE DATABASE University Database
- Get inside this database using USE
 - ⇒ USE University_Database
- Run the following command to load the database in University_Database
 - ⇒ source filepath
 - ⇒ filepath → location of University_Database.sql file

Create a User and Granting all privileges to this user:

- Run the following commands on MySQL command prompt.
 - □ CREATE USER 'sammy'@'localhost' IDENTIFIED BY 'password';
 - Replace a name that you want to name this user with 'sammy' and set a password and replace it with 'password'.
 - ⇒ GRANT ALL PRIVILEGES ON *.* TO 'sammy'@'localhost' WITH GRANT OPTION;
 - o Replace 'sammy' with the username you chosen.

Connecting the database and frontend with the help of Node JS:

Open the folder 'University_Project' and there will be three files there, namely,

- package.json
- mysql.js
- server.js

Open mysql.js

- In line 6, replace the user from "archit" to the username you decided in last step.
- In line 7, replace the password from "Comemierda@123" to the password you chose in last step.

Installing Required Node Modules:

- Go to terminal and switch to the directory 'University_Project' in which you found three files earlier.
- Run the following command
 - □ npm install
 - ⇒ npm install -g nodemon

You will now see new files and folders in the 'University_Project' folder.

Running the Web Application:

- Run the following command:
 - □ nodemon server.js

You will see an output similar to this

```
archit@archit-VirtualBox:~/Desktop/University_Project$ nodemon server.js
[nodemon] 2.0.15
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `node server.js`
Creating mysql connection...
Running server on port: 3000
```

- Open 'Firefox' and type "localhost:3000" in url box and press enter.
- Web Application can be seen, you will be at home page and can navigate to other pages through links on home page.