Notifications App

-Amarnath Mishra

Email - amarnathm11@gmail.com

Mob – (+91) – 7607110260

Indian Institute of Information Technology Guwahati

Technology Used-

"I chose these technologies, because these seemed me a great technologies to use for this kind of problem, I really enjoyed writing every single line of the app. I am always ready and eager to learn new technologies also according to what my Job role demands.
I have always been enticed by the energy in a startup environment and therefore regard myself as a good cultural fit in this company. I hope to embark my career with Wingify. "

Back end – node.js, Express framework, and socket.io (To push new notifications to client so that it gets represented as real-time ,As It has a variety of transports between client and server: WebSockets, XHR long polling, JSONP, Flash sockets, etc.)

Front end – AngularJS (Mainly, see the AngularControllers.js file), Bootstrap, CSS, JavaScript HTML.

Database – MySQL

Directory and file Explanation –

"For your convenience I have pulled all my files and put in a single directory so that you can easily configure and see all file at a single place. "

Myserver.js – The server is implemented using node.js, express server and used socket.io as web socket to push new notifications to client so that it gets represented as real- time logs.

Index.html – This is the main front end file, which have all HTML codes in it, and in this I have included all the necessary API links for CSS, AngularJS, Bootstrap and other JavaScript necessary links.

AngularController_ofApp.js - *This has all the AngularJS codes*, which works as the "**brain"** of the whole App.

MyAppModules.js- In this file I have included the module for the ng-app, which is declared in index.html

styles.css – This file contains all the CSS design which refers to index.html.

Images/- This directory has all images of people, whom I am using as actor in my sample notifications.

How to setup the App?

1. First of all install MySQL and node.js (Go to - https://nodejs.org/en/download/ and download and run (.msi) file (if windows) for example and run it, it will setup node.js and npm in your computer) if you don't have it.

2. Your node.js installer also comes with its package manager (npm), we need this to get all other frameworks of node.js and other requirements.

3. Once you are done with downloading node.js and MySQL, open Command Prompt and go to the directory where our source code is and insert these commands –

4. Our all requirements of node.js and other frameworks and other requirements, I have declared in our **package.json** file, which will install all of these locally once you insert following command. –
       npm install

   (if after above step if you are getting any error like – *"error-unable-to-verify-the-first-certificate-in-nodejs"*, then this is because your firewall, ssl settings are not giving permission , so in this case first run this command –
```
npm config set strict-ssl false
```
)

    (once completed now you will be able to see a new directory- (**node modules**) in the same source code location, where all modules are just downloaded**).**

5. Open MySQL and create a database with any name you want.

6. Use that database and create a table with following command –
   Create table notitable(id int,username varchar(60),action varchar(60),target varchar (60), dateandtime varchar(260), status int, image varchar(360));
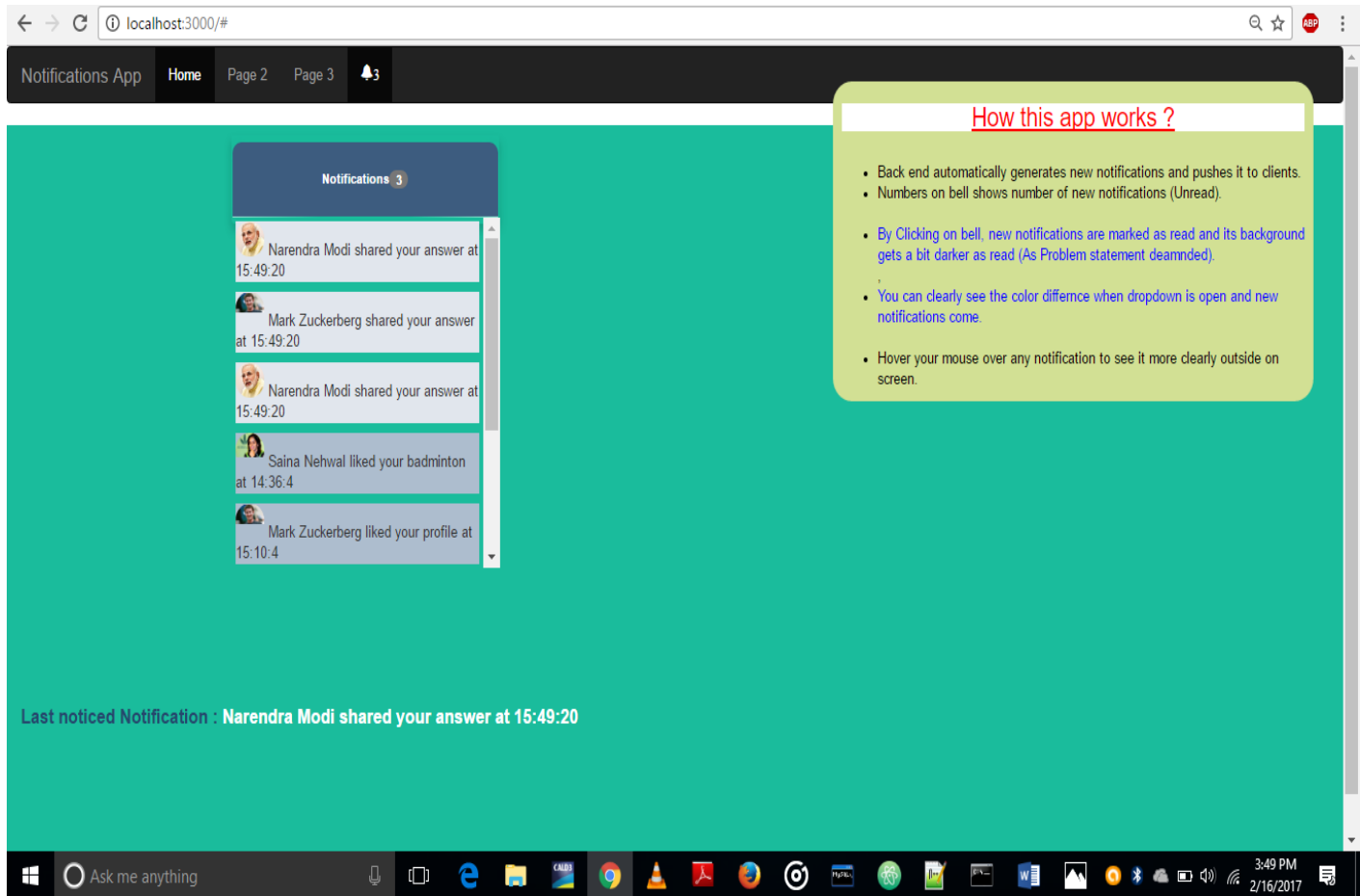
   Now check by putting a command in MySQL – **describe notitable**; It should come exactly like this –

```
mysql> describe notitable;
+-------------+---------------+------+-----+---------+-------+
| Field       | Type          | Null | Key | Default | Extra |
+-------------+---------------+------+-----+---------+-------+
| id          | int(11)       | YES  |     | NULL    |       |
| username    | varchar(50)   | YES  |     | NULL    |       |
| action      | varchar(50)   | YES  |     | NULL    |       |
| target      | varchar(50)   | YES  |     | NULL    |       |
| dateandtime | varchar(250)  | YES  |     | NULL    |       |
| status      | int(11)       | YES  |     | NULL    |       |
| image       | varchar(350)  | YES  |     | NULL    |       |
+-------------+---------------+------+-----+---------+-------+
7 rows in set (0.12 sec)

mysql> _
```

7. Now configure the database.js file according to your database parameters (Your username, password, and your database name).

8. Please note that before starting the server you must have internet connection also at first as I have given web API links for AngularJS, Bootstrap etc.

9. Now finally run the start the server using –

   node myserver.js

   or   npm start (as I have initialized start = myserver.js in package.json (Any will work)**).**
10. Now open your web browser and go to localhost:3000/ , if above configurations are correct it should definitely work.

How this App works?

As soon as you click on bell all notifications are marked as read in back end also and the background color for all those notifications gets a bit darker.

You can clearly see the difference when in new and old notifications color when the dropdown is open as shown in figure.

Status =1 for unread notifications

Status =0 for read notifications