Notificaton Dropdown: Wingify

Notification dropdown example, that loads notifications from server at random intervals.
On first page load, Notifications are loaded from the Database, subsequent Notifications are loaded using sockets. Server pushes notifications to Database and to the client using sockets.

Explanation:

1. Page request: Page loads and it fetchs for notifications from DB. Notifications are rendered on page.
2. Socket Connection Between Node Server and Client is established. Subsequent notifications will be sent to client using sockets.

3. Node server generates new Notifications, pushed it to

    - DB
    - Client using socket

4. On Page refresh, again all notifications from DB is loaded first then the process repeats.

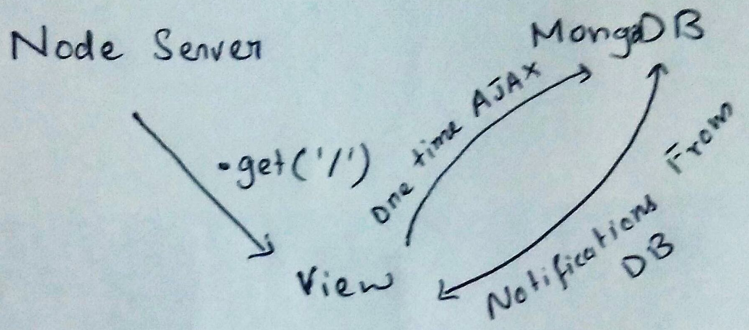
5. Clicking on Bell icon or Closing the Dropdown Marks all notifications as read.

6. Clicking on 'Delete all notifications' truncates the DB and reloads the page.

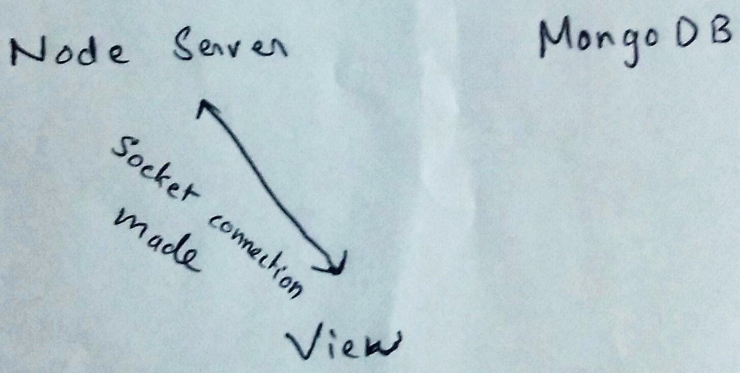
Why WebSockets ? Faster and smaller in size than http + suitable for these type of instant data transfer.

My attempt at explaining this through some diagrams

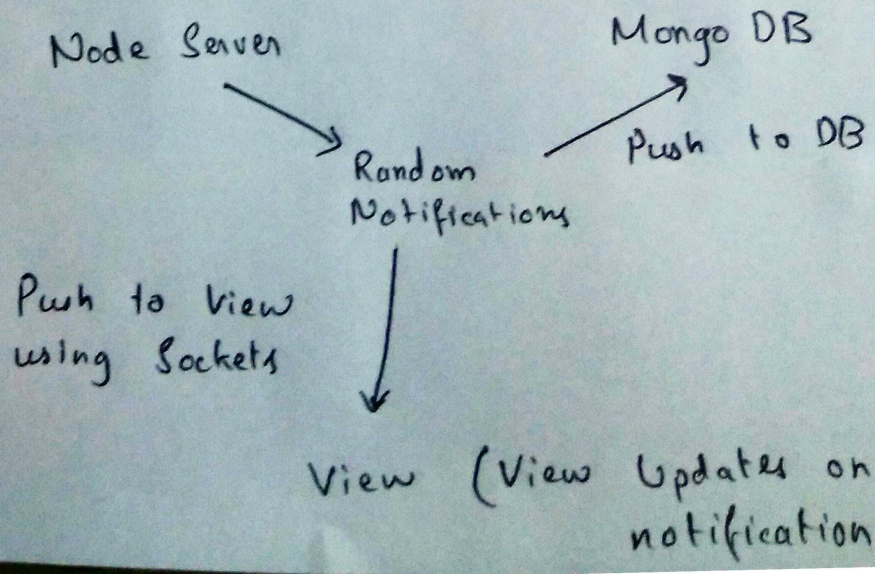
① 1st Page Request:



② Socket Connection Establishment



③ Server Pushes Notifs to Both DB and View



About the code

Extensive use of JavaScript ES6. Short and Nice.
Strictly followed JavaScript style guide by airbnb, enforced the style guide using ESlint configs from elsint-config-airbnb.

Can do the same using other tech stacks, but this is the way I preffered for it to be **efficient, production ready and scalable** and also considering the given the short time period to code.

View Layer: ReactJs

- Could have also done the same with Vanilla JS, But React is faster, And I preffer it for dynamic, repeated component views.

Server: Nodejs

- Can do with Python Django, but just tried to keep all code in JavaScript

Database: MongoDB

- Mlab.com offers 500Mb free MongoDB instance, used this so that you won't need to set up one.

Tech Stack

- JavaScript ES6
- ReactJs
- Nodejs
- MongoDb
- websockets

Pre-requisites

- Node >6.0

- npm or yarn

Try it

I have hosted a MongoDb database Instance at mlab.com and configured it for the project, so that you don't have to fiddle with setting up one. Their Free service is not the best, It is shared Instance, so sometimes database requests may take a few more milliseconds.

```
# Go to project root
# Install all dependencies
$ npm install
# or
$ yarn install

# build project
$ npm run build

# Start server
$ npm run server
```

Open http://localhost:3001/
Done!

Excited to work with you all.

Have any issues/problems/suggestion ?
Contact me: +91 8800949541 or vigzmv@outlook.com
I will be happy to take you through the code.