# Lab Assignment 3

## **Mean Stack**

## **Contributors**

Team: 4-2

#### Member 1

• Name : Rahul Reddy Yerva

• Class id: 59

#### Member 2

• Name : Kavin Kumar Arumugam

• Class id : 63

link: https://ase5551-lab-3.herokuapp.com/

## **Objective**

- 1. To Create a database in MongoDB and store data related to the application
- 2. <u>To implement CRUD operations by using REST services on MongoDB related to the application</u>
- 3. Add a node module related to the application
- 4. Design good user interface

# **Design and Screenshots/Code Snapshots**

### 1. Database connection and login, register activity

We have used <u>mlab</u> for database connection to store user details and performed login action and register action. We have also validated the actions and made alert messages from the server side.

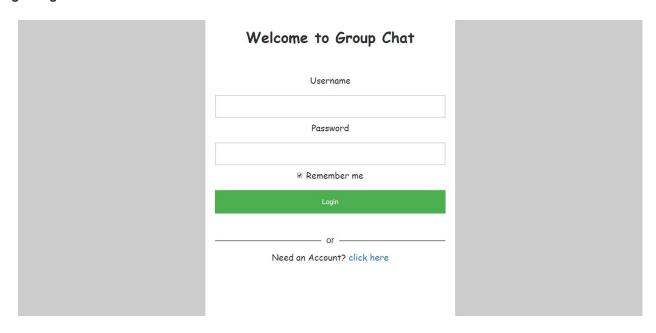
#### mlab collection

records / page 10 🔻				[1 - 4 of 4]
_id				
5bda6756de04d11dcc937e37	kavin	12345	kavin@gmail.com	•
5bda67e1de04d11dcc937e38	rahul	12345	rahul@gmail.com	
5bda71dad2aa23000465c63f	jack	123456	jack@gmail.com	•
5bda78a7d2aa23000465c640	andrew	123456	andrew@gmail.com	
records / page 10 ▼				[1 - 4 of 4]

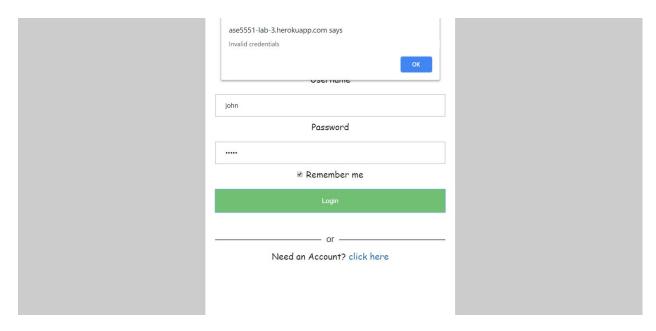
#### mlab connection code

```
const database = "mongodb://kaphc:Xyloa7707@ds147723.mlab.com:47723/lab-3";
mongoose.Promise = global.Promise;
mongoose.connect(database, function (err) {
    if(err){
        console.error("Error : " + err);
    }
});
```

#### **Login Page**



## **Login Page with Validation**



#### Signup Page



## Signup Page with Validation

# Sign Up First Name andrew Password 123456 Email Address andrew I agree with the Terms and Conditions. Register

#### 2. To perform CRUD operations

**Call from client** 

```
app.controller('login_controller', function ($scope, $http) {
    $scope.login = function () {
        let url_req = 'lab-3/login?' +
            'user name=' + $scope.formData.user name + '&' +
            'password=' + $scope.formData.password + '&';
        var req = $http.post(url_req, $scope.formData).then(function (response) {
            if(response.data['success']){
                localStorage['logged_user'] = $scope.formData.user_name;
                location.href = "chat.html";
            }
            else{
                alert("Invalid credentials");
        });
    };
    $scope.register = function () {
        let url_req = 'lab-3/register?' +
            'user_name=' + $scope.formData.user_name + '&' +
            'password=' + $scope.formData.password + '&' +
            'email_id=' + $scope.formData.email_id + '&';
        var req = $http.post(url_req, $scope.formData).then(function (response) {
            if(response.data['success']){
                location.href = "login.html";
                alert("Registered successfully");
            else{
                alert("Error while registering");
```

```
router.post('/login', function(req, res){
   console.log('login a user');
   const user name = req.body.user name;
   const password = req.body.password;
   user.authenticate(user_name, password, (err, user) => {
       if (err) throw err;
       if (!user) {
           return res.json({success: false, msg: "User not found"});
       console.log("logged in");
       return res.json({success: true, msg: "User found"});
   });
});
router.post('/register', function(req, res){
   var newUser = new user();
   newUser.user name = req.body.user name;
   newUser.password = req.body.password;
   newUser.email_id = req.body.email_id;
   newUser.save(function(err, insertUser){
       if(err){
            console.log("Error : " + err);
            res.json({success: false, msg: "failed to register"})
           res.json({success: true, msg: "Successfully Registered!!!!"});
   });
```

```
// required packages
const express = require('express');
const bodyParser = require('body-parser');
const path = require('path');
const socket = require('socket.io');
// app set up
var app = express();
const port = process.env.PORT || 3000;
var server = app.listen(port, function(){
   console.log("server started at port number : " + port);
});
app.use(bodyParser.urlencoded({extended: true}));
app.use(bodyParser.json());
const route = require('./routes/users');
app.use('/lab-3', route);
// including static files
app.use(express.static(path.join(__dirname, 'public')));
app.get('*', (req, res) => {
   res.sendFile(path.join(__dirname, 'public/index.html'));
});
```

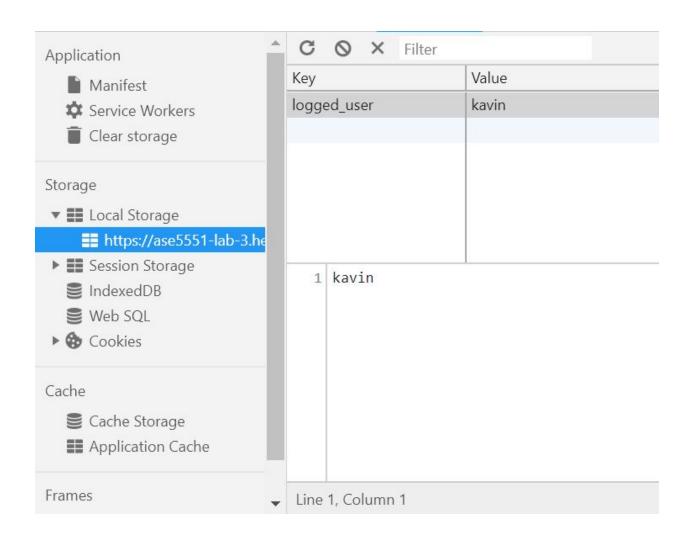
#### 3. Add a node module

We have used <u>socket.io</u> node module to the application where users can have a group chat among them.

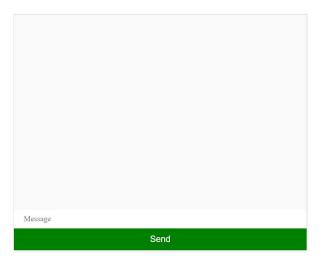
#### Socket.io implementation code

```
// socket connection
var socket = io.connect('');
var message = document.getElementById('message');
var handle = localStorage['logged_user'] || 'Your friend';
var button = document.getElementById('send');
var output = document.getElementById('output');
var feedback = document.getElementById('feedback');
button.addEventListener('click', function(){
    socket.emit('chat',{
       message: message.value,
       handle: handle
    });
    message.value = "";
});
message.addEventListener('keypress', function(){
    socket.emit('typing', handle)
});
socket.on('chat',function (data) {
   feedback.innerHTML = '';
    output.innerHTML += '<strong>' + data.handle + ':</strong>' + data.message + '';
});
socket.on('typing',function (data) {
   feedback.innerHTML = '<em>' + data + ' is typing a message....' + '</em>';
});
```

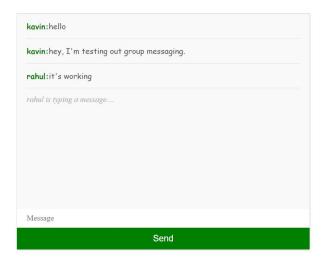
#### We store logged user detail in local storage



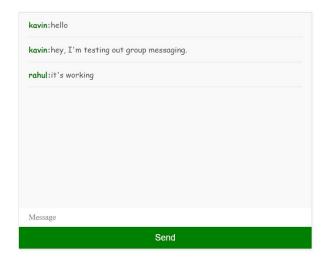
#### Chat box



## Chat box with typing message



#### Chat box with group message



## 4. We have also designed good UI in all the modules

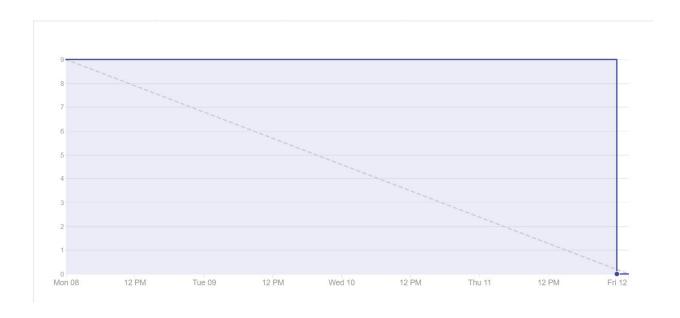
## 5. Heroku Deployment

We have also deployed our application in heroku link:

https://ase5551-lab-3.herokuapp.com/

# **Zenhub Tool**

## Burndown Charts:-



## **Contributors Chart:**

# Sep 9, 2018 – Oct 31, 2018

Contributions: Commits ▼

#2

Contributions to master, excluding merge commits





# Video

Link to code execution - here

# **Contribution By**

## Rahul Reddy Yerva

- Created mongodb database collection.
- Added REST service functionality.
- Heroku deployment

## **Kavin Kumar Arumugam**

- Added socket.io node module
- Wiki page creation and documentation
- Integration of over all application