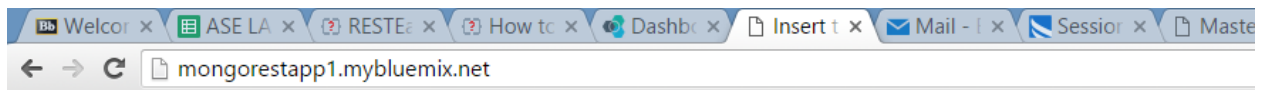
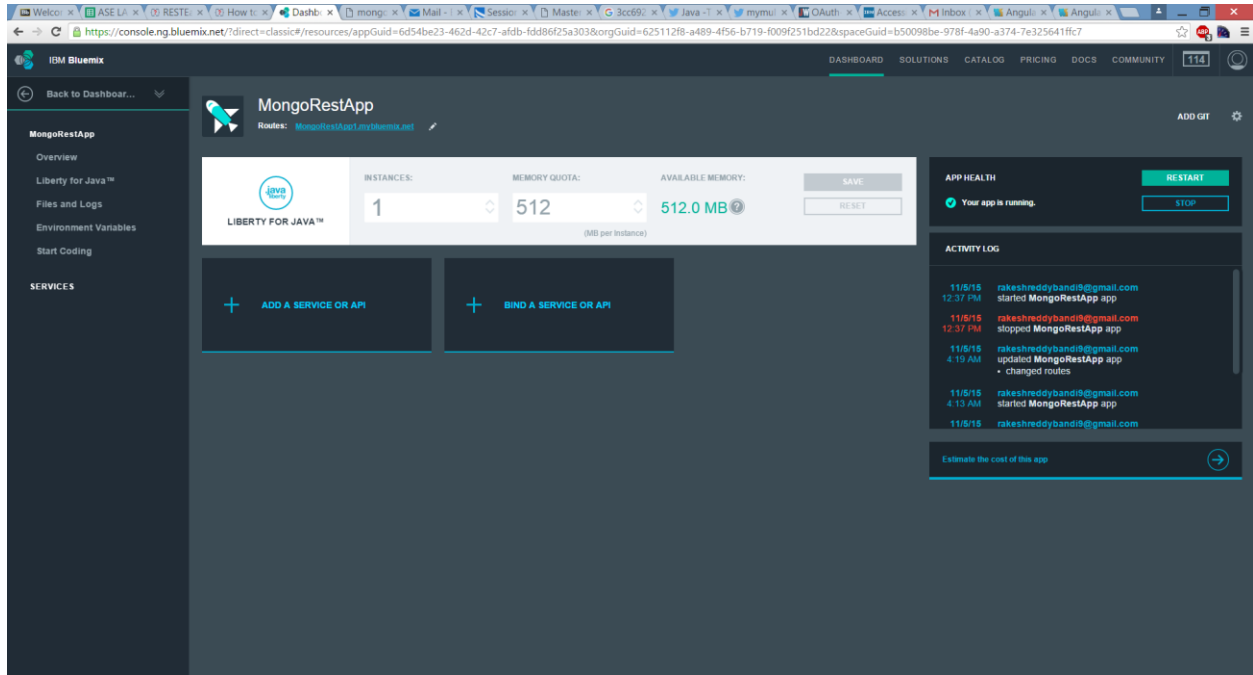


Lab Assignment 9 Documentation

1. Deployment in IBM Bluemix:

Deployed Mongo Rest services in IBM Bluemix



Hello

Welcor x ASE LA x RESTE x How to x Dashbo x mongoc x Mail - x Session x Master x 3cc692 x Java -T x mymul x OAuth

← → C mongorestapp1.mybluemix.net/userhello

```
[{"_id": {"$oid": "562d8256e4b0981689b185f9"}, "name": "Rohith Reddy Vootla", "password": "a", "email": "816517"}, {"_id": "12", "name": ""}]
```

2. Deployment Twitter Rest Services in IBM Bluemix:

Welcor x ASE LA x RESTE x How to x Dashbo x Mail - x Session x Master x 3cc692 x Java -T x mymul x OAuth x Access x Inbox x Angular x Angular x

← → C https://console.ng.bluemix.net/?direct=classic#/resources/app/Guid=6b8c392d-1ebe-436c-985a-74bf2026b48c&orgGuid=625112f8-a489-4f56-b719-f009f251bd22&spaceGuid=b50098be-978f-4a90-a374-7e325641ffc7

IBM Bluemix

DASHBOARD SOLUTIONS CATALOG PRICING DOCS COMMUNITY 114

Back to Dashboard...

TwitterRestApi

Router: TwitterRestApi.mybluemix.net

ADD GIT

Overview

Liberty for Java™

Files and Logs

Environment Variables

Start Coding

SERVICES

LIBERTY FOR JAVA™

INSTANCES: 1

MEMORY QUOTA: 512

AVAILABLE MEMORY: 512.0 MB

SAVE

RESET

+

ADD A SERVICE OR API

+

BIND A SERVICE OR API

APP HEALTH

RESTART

STOP

ACTIVITY LOG

11/8/15 12:39 PM rakeshreddybandi@gmail.com started TwitterRestApi app

11/8/15 12:00 PM rakeshreddybandi@gmail.com stopped TwitterRestApi app

11/8/15 11:43 AM rakeshreddybandi@gmail.com started TwitterRestApi app

11/8/15 11:42 AM rakeshreddybandi@gmail.com updated TwitterRestApi app

11/8/15 11:42 AM rakeshreddybandi@gmail.com modified environment

11/8/15 rakeshreddybandi@gmail.com

Estimate the cost of this app



Sign up for Twitter

Authorize mymultimessenger to use your account?

rakeshreddystar@gmail.co

☐ Remember me [Forgot password?](#)

Authorize app

Cancel



mymultimessenger

twitterestapi1.mybluemix.net/userhello

A multi messenger which syncs the messages of all messengers

This application will be able to:

- Read Tweets from your timeline.
- See who you follow, and follow new people.
- Update your profile.
- Post Tweets for you.
- Access your direct messages.

Will not be able to:

- See your Twitter password.

You can revoke access to any application at any time from the [Applications](#) tab of your Settings page.

By authorizing an application you continue to operate under Twitter's Terms of Service. In particular, some usage information will be shared back with Twitter. For more, see our [Privacy Policy](#).



You've granted access to mymultimessenger!

Next, return to mymultimessenger and enter this PIN to complete the authorization process.

4971503

[Go to Twitter](#)

You can revoke access to any application at any time from the [Applications](#) tab of your Settings page.

By authorizing an application you continue to operate under Twitter's Terms of Service. In particular, some usage information will be shared back with Twitter. For more, see our [Privacy Policy](#).

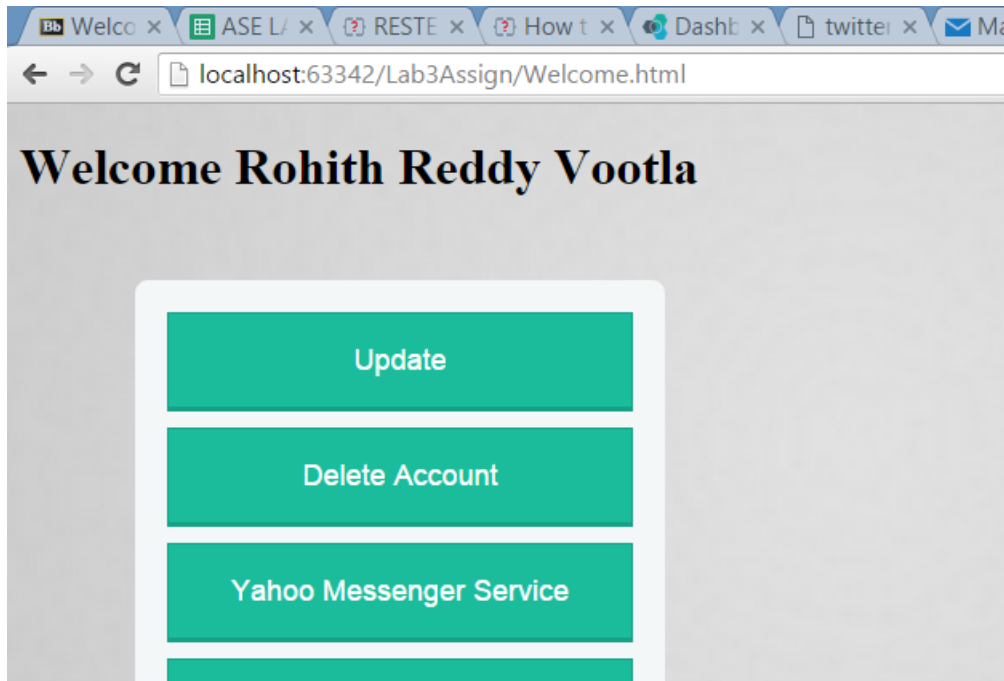
[Go to the mymultimessenger homepage](#)

Implementation of design patterns

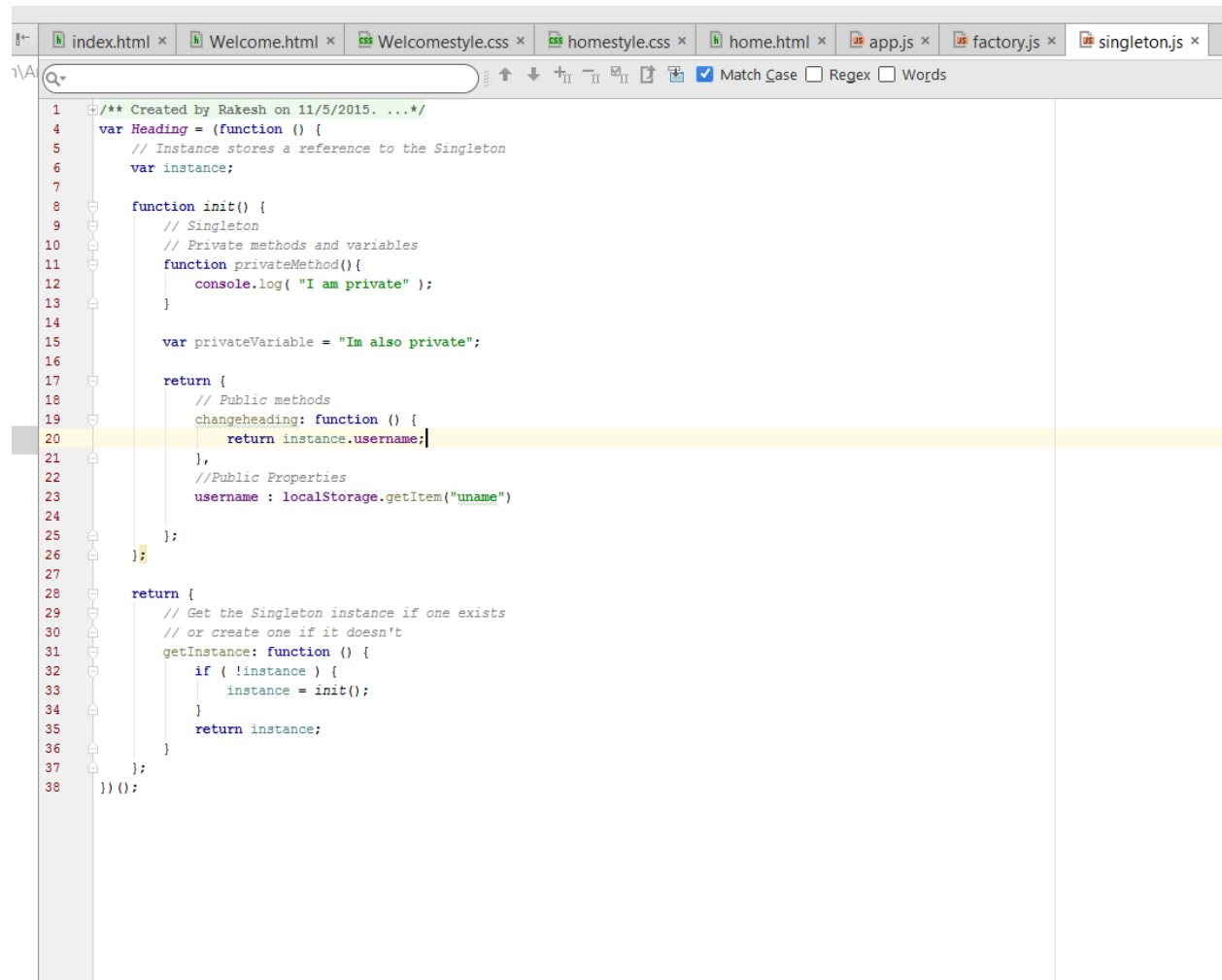
For this lab assignment I implemented 3 design patterns

1. Singleton Design Pattern

I implemented Username Singleton service.



Code snippets:

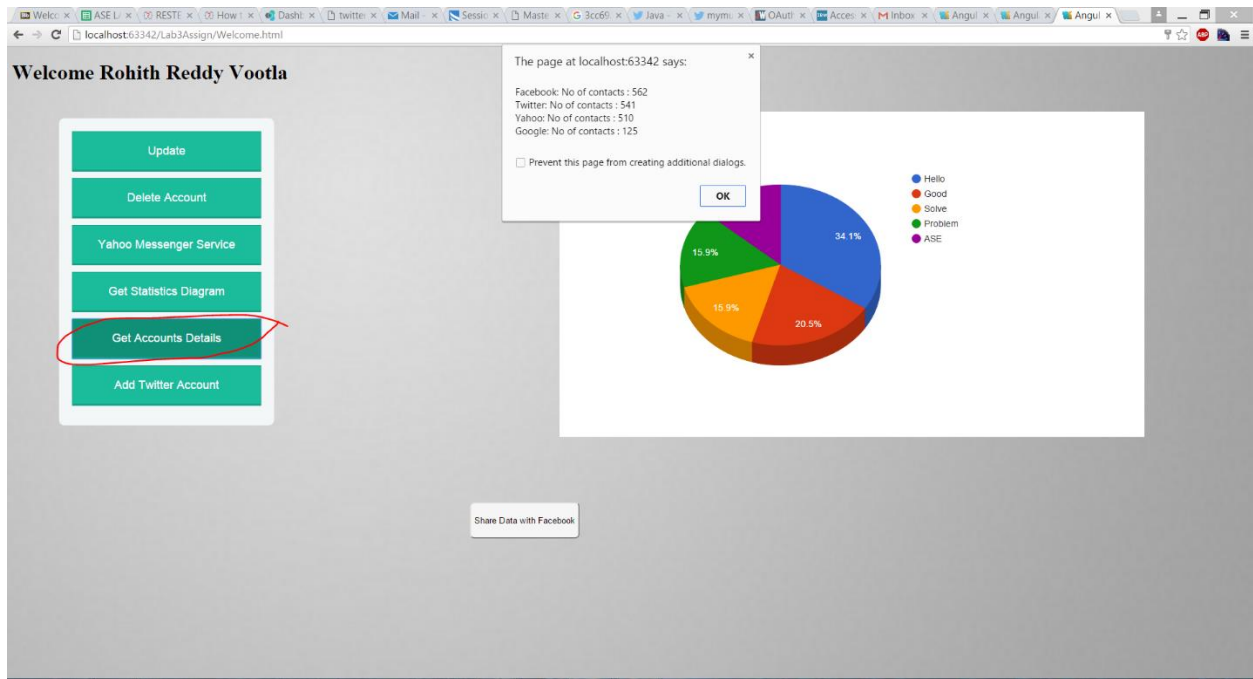


The screenshot shows a code editor with multiple tabs at the top: index.html, Welcome.html, Welcomestyle.css, homestyle.css, home.html, app.js, factory.js, and singleton.js. The active tab is singleton.js. The code is a JavaScript Singleton pattern implementation. It starts with a comment: `/** Created by Rakesh on 11/5/2015. ...*/`. A variable `Heading` is assigned a function that returns an object with a `username` property. This object is stored in `instance`. A `privateMethod` function logs "I am private". A `privateVariable` is set to "Im also private". The `init` function returns an object with a `changeheading` method that returns `instance.username`. The `getInstance` function checks if `instance` exists; if not, it calls `init` and returns the new instance. The code is wrapped in an immediately invoked function expression (IIFE).

```
1  /** Created by Rakesh on 11/5/2015. ...*/
2
3  var Heading = (function () {
4      // Instance stores a reference to the Singleton
5      var instance;
6
7
8      function init() {
9          // Singleton
10         // Private methods and variables
11         function privateMethod() {
12             console.log( "I am private" );
13         }
14
15         var privateVariable = "Im also private";
16
17         return {
18             // Public methods
19             changeheading: function () {
20                 return instance.username;
21             },
22             //Public Properties
23             username : localStorage.getItem("uname")
24         };
25     };
26 }());
27
28 return {
29     // Get the Singleton instance if one exists
30     // or create one if it doesn't
31     getInstance: function () {
32         if ( !instance ) {
33             instance = init();
34         }
35         return instance;
36     }
37 };
38 }());
```

2. Factory Pattern

I implemented Factory pattern in Welcome page to show the contact details



Code Snippet for Factory pattern

```
index.html × Welcome.html × Welcomestyle.css × homestyle.css × home.html × app.js × factory.js × singleton.js × mixin.js
1  /** Created by Rakesh on 11/5/2015. ...*/
2
3  function Factory() {
4      this.createAccount = function (type) {
5          var account;
6
7          if (type === "Facebook") {
8              account = new Facebook();
9          } else if (type === "Twitter") {
10             account = new Twitter();
11          } else if (type === "Yahoo") {
12             account = new Yahoo();
13          } else if (type === "Google") {
14             account = new Google();
15          }
16
17          account.type = type;
18
19          account.say = function () {
20              log.add(this.type + ": No of contacts : " + this.contacts);
21          }
22
23          return account;
24      }
25  }
26
27  var Facebook = function () {
28      this.contacts = "562";
29  };
30
31  var Twitter = function () {
32      this.contacts = "541";
33  };
34
35  var Yahoo = function () {
36      this.contacts = "510";
37  };
38
39  var Google = function () {
40      this.contacts = "125";
41  };
42
43  // log helper
44  var log = (function () {
45      var log = "";
46
47      return {
48          add: function (msg) { log += msg + "\n"; },
49          show: function () { alert(log); log = ""; }
50      }
51  })();
52
```

```

34 };
35
36 var Yahoo = function () {
37     this.contacts = "510";
38 };
39
40 var Google = function () {
41     this.contacts = "125";
42 };
43
44 // log helper
45 var Log = (function () {
46     var log = "";
47
48     return {
49         add: function (msg) { log += msg + "\n"; },
50         show: function () { alert(log); log = ""; }
51     };
52 })();
53
54 function run() {
55     var accounts = [];
56     var factory = new Factory();
57
58     accounts.push(factory.createAccount("Facebook"));
59     accounts.push(factory.createAccount("Twitter"));
60     accounts.push(factory.createAccount("Yahoo"));
61     accounts.push(factory.createAccount("Google"));
62
63     for (var i = 0, len = accounts.length; i < len; i++) {
64         accounts[i].say();
65     }
66
67     Log.show();
68 }

```


3.Mixin Pattern

To implement Mixin Pattern I used to inside keyword and used this method for CRUD oprations

Update Details

Rohith

Reddy

B456

Submit Details

Delete Account

Yahoo Messenger Service

Get Statistics Diagram

Get Accounts Details

Add Twitter Account

The page at localhost:63342 says:

Updated Successfully

Prevent this page from creating additional dialogs.

OK

Share Data with Facebook

Inside Put

Code snippet:

```
1  /** Created by Rakesh on 11/5/2015. ...*/
2
3  function augment( receivingClass, givingClass ) {
4      // only provide certain methods
5      if ( arguments[2] ) {
6          for ( var i = 2, len = arguments.length; i < len; i++ ) {
7              receivingClass.prototype[arguments[i]] = givingClass.prototype[arguments[i]];
8          }
9      }
10     // provide all methods
11     else {
12         for ( var methodName in givingClass.prototype ) {
13             if ( !Object.hasOwnProperty.call(receivingClass.prototype, methodName) ) {
14                 receivingClass.prototype[methodName] = givingClass.prototype[methodName];
15             }
16         }
17     }
18 }
19
20
21
22
23
24 var Mixin = function() {}
25 Mixin.prototype = {
26     postMethod: function(){
27         console.log( "Inside http POST" )
28     },
29     putMethod: function(){
30         console.log( "Inside http PUT" );
31     },
32     deleteMethod: function(){
33         console.log( "Inside http DELETE" );
34     },
35     getMethod: function(){
36         console.log( "Inside http GET" );
37     }
38 };
39
40 // A skeleton carAnimator constructor
41 function Inside() {
42 }
43
44 augment(Inside, Mixin);
45
46 var inside = new Inside();
```