

CS551 Advanced Software Engineering
Final Project Submission
Best Buddy

=====*

Team: 25

Member1: Yeruva, Vijaya Kumari (Id: 94)

Member2: Goudarzvand, Saria (Id: 95)

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I. Project Deployment

Introduction:

The purpose of the project is to create an application that predict the user behavior (happy or unhappy) based on his/her tweets/text.

Deployment:

User need to down load the project from GitHub link

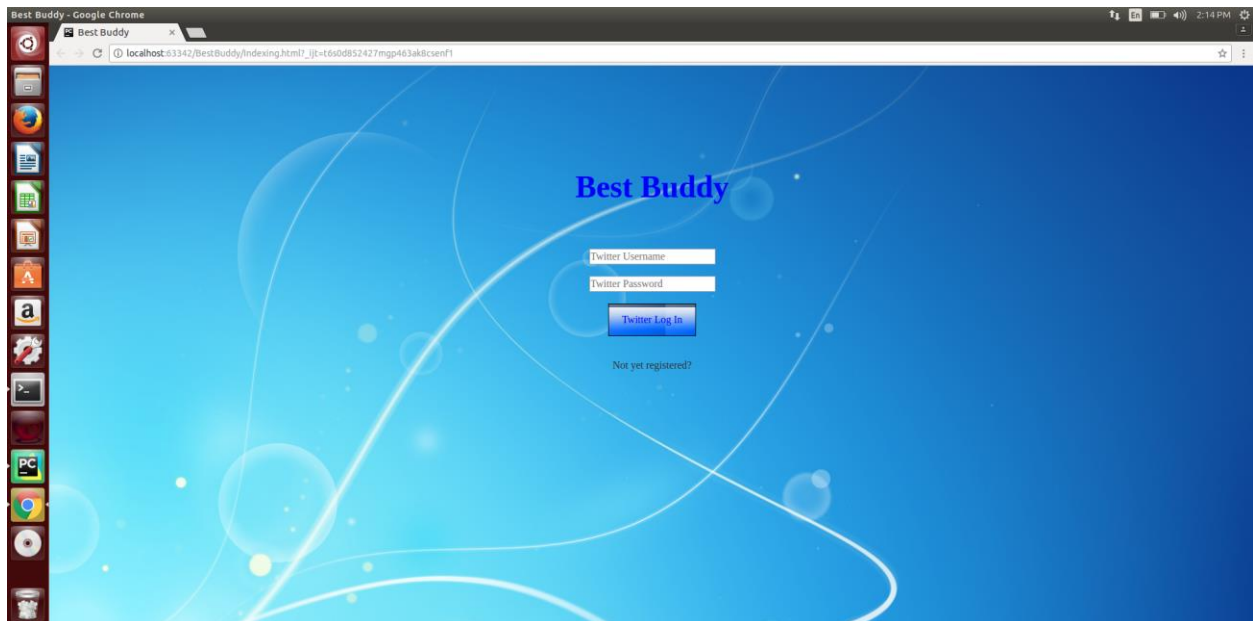
https://github.com/VIJAYAYERUVA/BestBuddy/tree/master/Sourcecode/Final_Project_Package

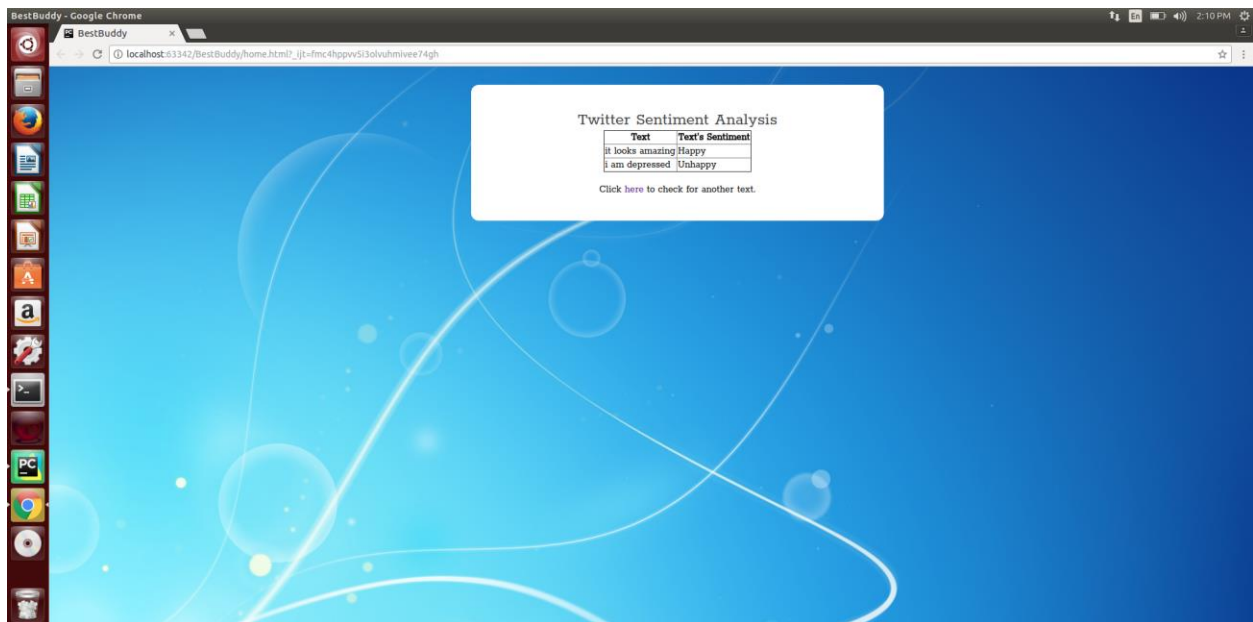
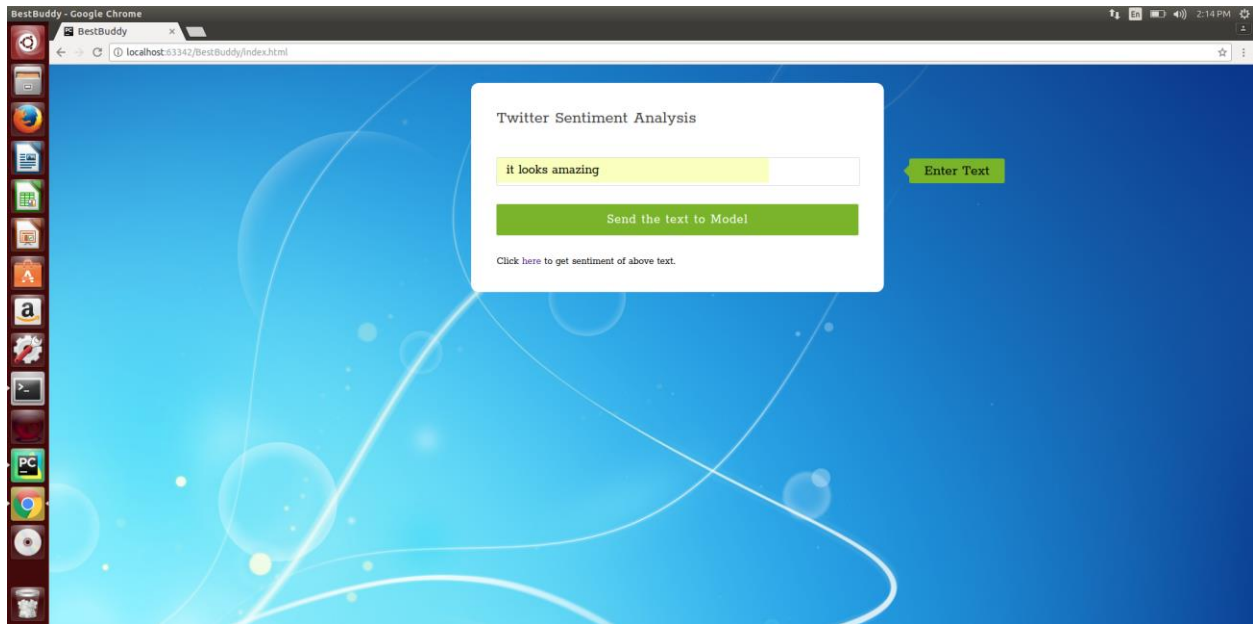
Minimum requirements to start the project:

- NPM
- Node JS
- MongoDB
- Python 3.4
- Tensor Flow 1.1.0

First user need to start the mongo.js server to start the data base. After that user need to start the “Indexing.html” file to access the application.

Sample Screens:





II. Project Management

Project management report: We have completed as much as possible with in given time lines. Followed the agile methodologies to accomplish our project. We have used Zen Hub and GitHub for our project management

Reports - VIJAYAYERUVA

GitHub, Inc. [US] | https://github.com/VIJAYAYERUVA/BestBuddy/issues#reports?report=burndown&milestoneId=2331412

Google Voice - Inbox UMMC-PATHway UMMC-Mail UMMC-ISAO On-Line UMMC-HR UMMC-Library GitHub UDIC Research - Asia UDIC Research-VY UDIC Research ASE-CS5551-2017-Sy BDAA-CS5542-2017-

Remaining Issues and Pull Requests

No issues to show based on your filters.

Completed Issues and Pull Requests

	Story points
Revised Project Plan enhancement BestBuddy #1	Not estimated
First Increment Report enhancement BestBuddy #2	Not estimated
WireFrames enhancement BestBuddy #3	Not estimated
Architecture Diagram enhancement BestBuddy #4	Not estimated
User Stories enhancement BestBuddy #5	Not estimated
Implementation & Source Code enhancement BestBuddy #6	Not estimated
Deployment and Testing enhancement BestBuddy #7	Not estimated

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Reports - VIJAYAYERUVA

GitHub, Inc. [US] | https://github.com/VIJAYAYERUVA/BestBuddy/issues#reports?report=burndown&milestoneId=2346407

Google Voice - Inbox UMMC-PATHway UMMC-Mail UMMC-ISAO On-Line UMMC-HR UMMC-Library GitHub UDIC Research - Asia UDIC Research-VY UDIC Research ASE-CS5551-2017-Sy BDAA-CS5542-2017-

0 Total Story Points

0 Completed Story Points / 0 Remaining Story Points

4 Total Issues and Pull Requests

4 Completed Issues and PRs / 0 Remaining Issues and PRs

Remaining Issues and Pull Requests

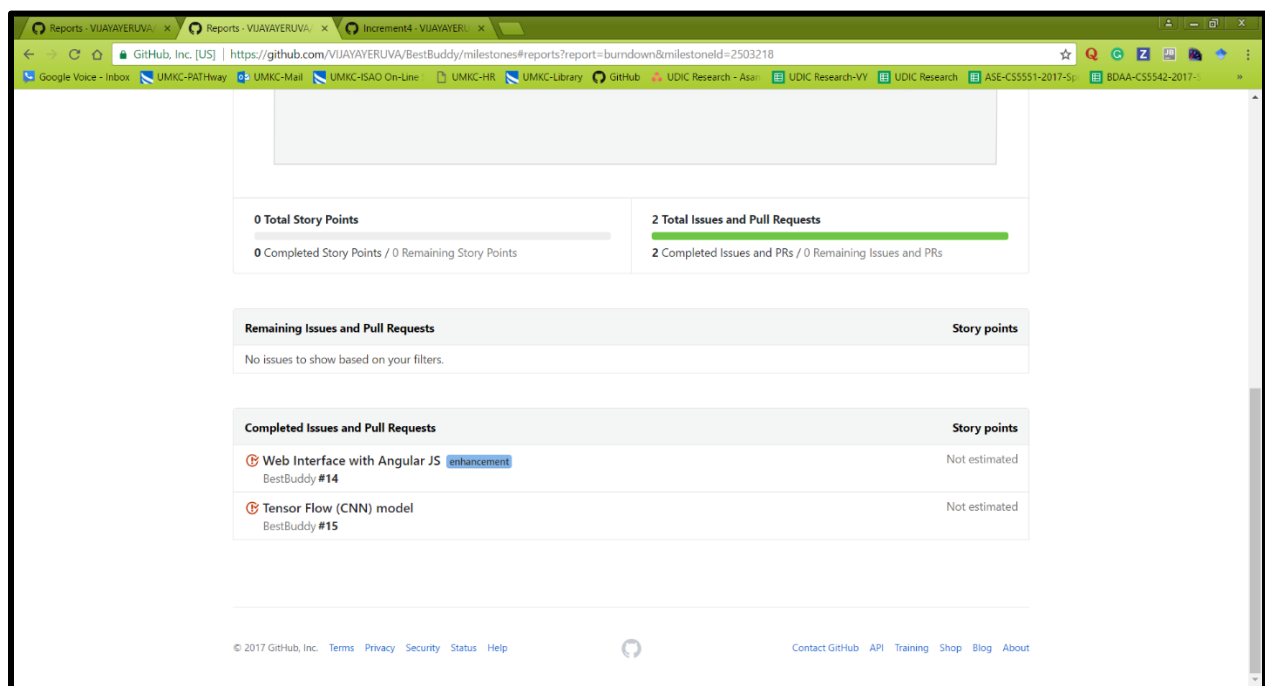
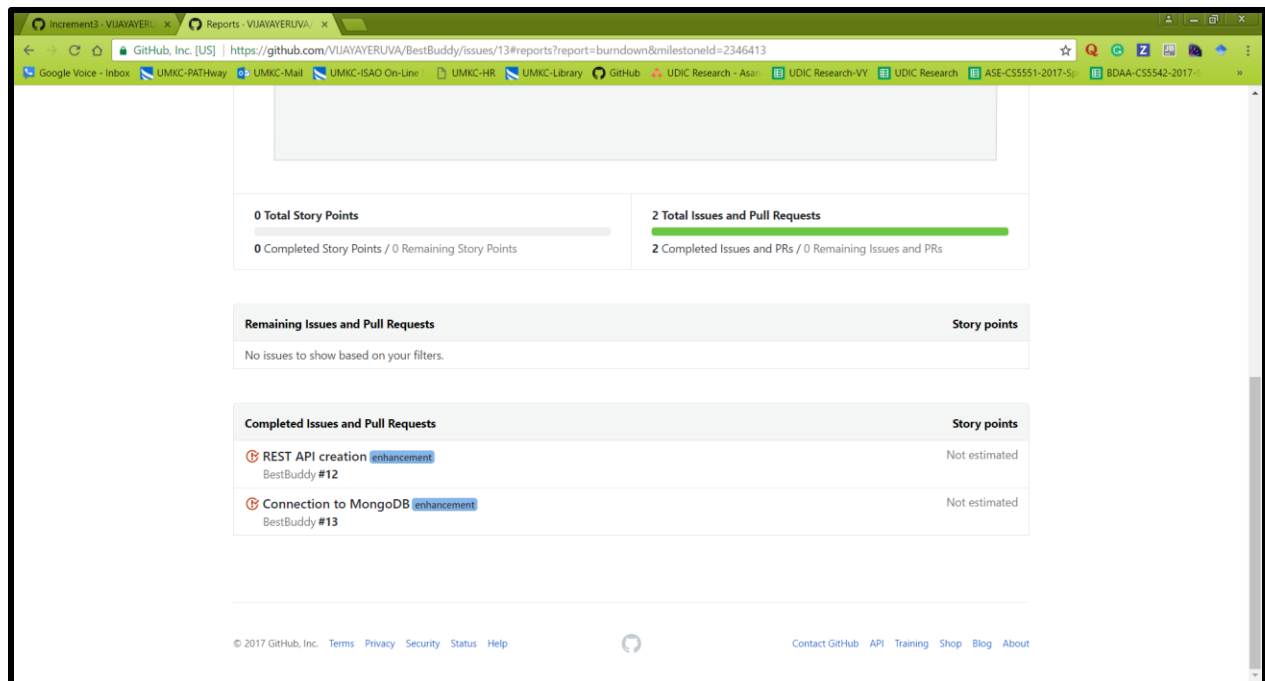
No issues to show based on your filters.

Completed Issues and Pull Requests

	Story points
Collect data from Social Network BestBuddy #8	Not estimated
Create a screen to take user picture for sentiment analysis BestBuddy #9	Not estimated
Image Classification BestBuddy #10	Not estimated
Image Classification BestBuddy #11	Not estimated

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Final project evaluation: The main goal of our project is to develop user recommendation system. Basically, it has two parts, first is to identify the user behavior and second is to develop the user recommendation system based on the user behavior. Because of time constraints we are accomplished only first part of our project and we are willing to extend our project to next step.

The agile methodology we followed helped us a lot in project journey. But failed to complete the things that are planned for different increments because of technical and resources issues.

III. Project Proposal

I. Team #: 25

II. Members:

1. Yeruva, Vijaya Kumari (S. Id: 94)
2. Saria Goudarzvand (S. Id: 95)

III. Project Goal and Objectives

- **Motivation:**

The Main motivation of this application is to track the user mood to see how is her mood during the day and learning more of the user then make a comparison with other people profile and output, with that, we can find the most similar adults that are as the same in mood and emotional aspects.

- **Significance/Uniqueness:**

The other App has nothing to do with the tracking of the emotional changing. They just track the activities a person should do then notifying the user at the right time about those activities as walking, having lunch. Another app also works just based on the profile a user make when she or he is in good mood.

- **Objectives:**

To provide a good approach to matching people that are as the same in the emotional aspects according to their emotions in real life, for example, their reaction to sleeping late in the night then getting up soon in the morning.

- **System Features:**

The system will contain each emotions user experience during the day, pre-required technologies, previous IEEE papers, previous publications, previous lab assignments

and previous projects. Apart from this, the system will provide available resources and references for that course. Reference textbooks. Sample exam question papers and expected solution.

- **Challenges:**

The most critical issue in this project is finding the similarity between profiles of the person as we don't know yet about which output we will get in the previous step. For example, it may be document or database. What's more, if the features are dynamic or some static variables.

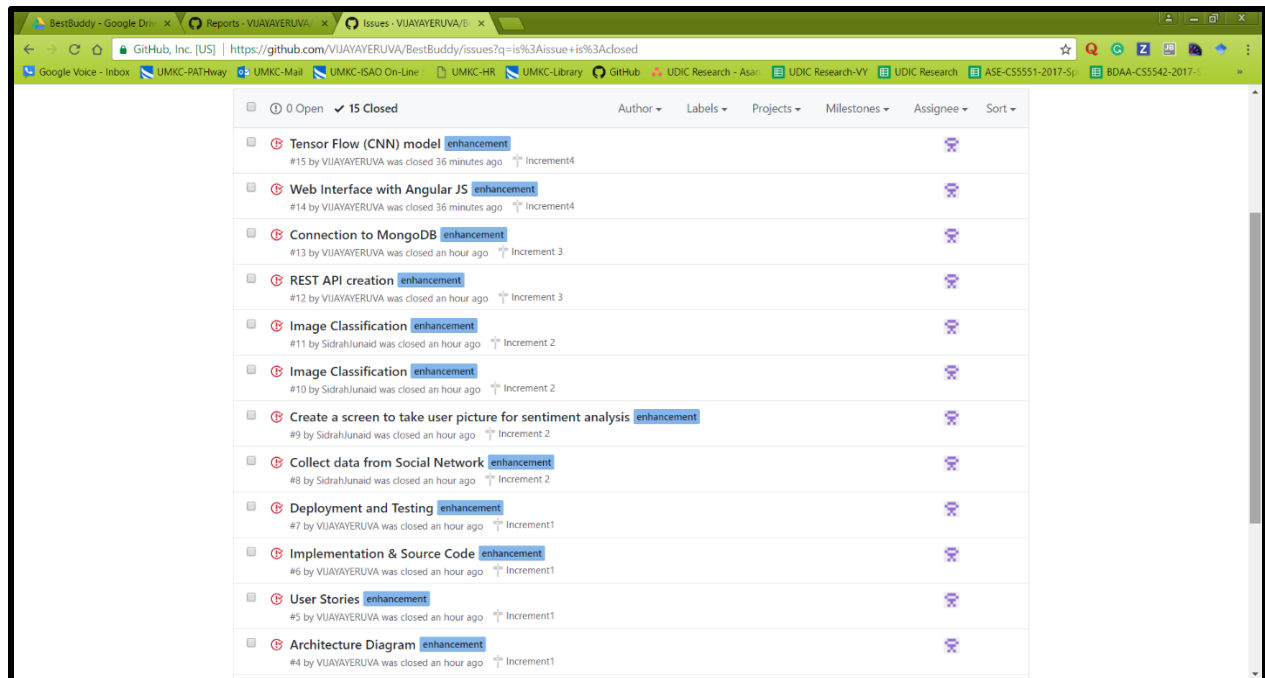
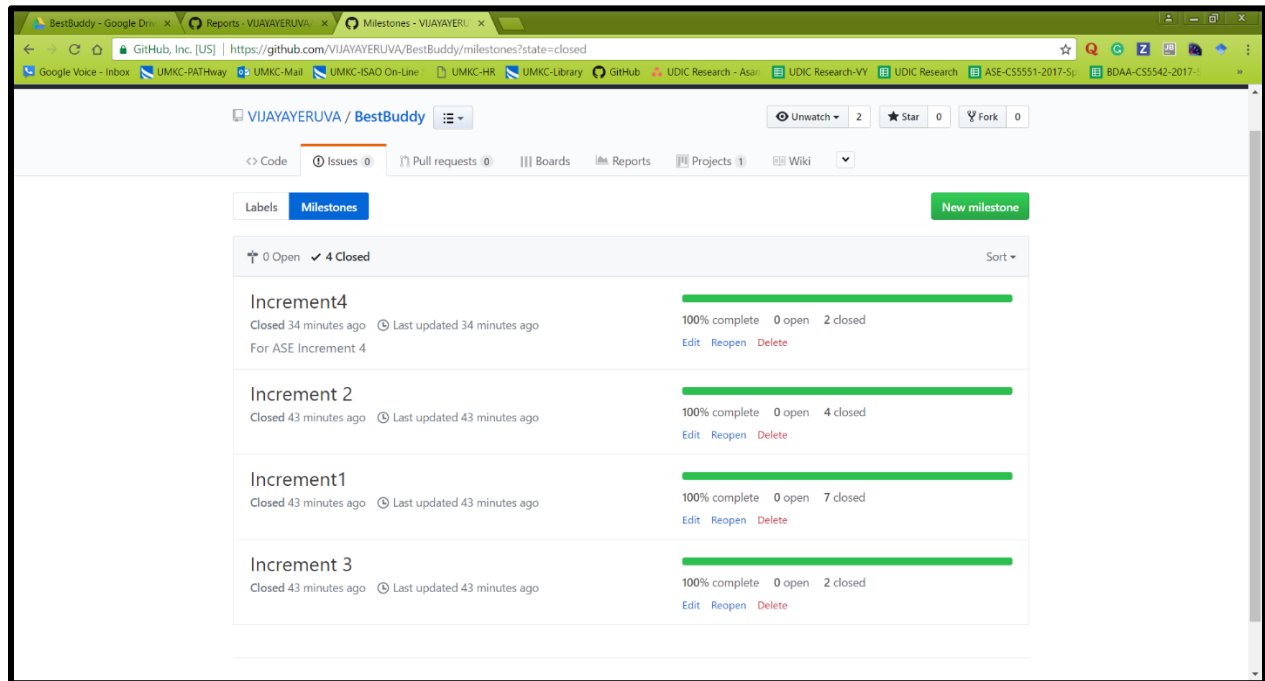
IV. Related Work

- **Projects done by others (include the URLs in Bibliography): NA**

V. Bibliography

- Voice to text - Cloud Speech API by Google (<https://cloud.google.com/speech/>)
- Voice to text – Alchemy API (<https://speech-to-text-demo.mybluemix.net/>)
- Text to sentiment – Cloud Natural Language API by Google (<https://cloud.google.com/natural-language/>)
- Text to sentiment – Alchemy API (<https://www.ibm.com/watson/developercloud/tone-analyzer.html>)
- Similarity between text/documents - Find Similar (<https://dev.havenondemand.com/apis/findsimilar#overview>)
- Demo of Similar Projects
- <https://youtu.be/8PvDgS6vCkQ>
- <https://www.youtube.com/watch?v=VazSEtXHDcI>

IV. Project Plan



V. First Increment Report

Existing Services/REST API:

Not used any APIs are used to implement increment1

Detail Design of Features (using tools):

Wire Frames:

<https://github.com/VIJAYAYERUVA/BestBuddy/tree/master/Documentation/WireFrames>

Architecture diagram:

<https://github.com/VIJAYAYERUVA/BestBuddy/blob/master/Documentation/Architecture.pdf>

Write User Stories:

<https://github.com/VIJAYAYERUVA/BestBuddy/blob/master/Documentation/User%20Stories.docx>

Testing:

Unit testing

Implementation:

Implemented the mobile application with Android Studio

Source Code:

<https://github.com/VIJAYAYERUVA/BestBuddy/tree/master/Sourcecode/BestBuddy>

Deployment:

Deployed the application into both Android Mobile and Simulator

Posted the first increment report and source code to GitHub

GitHub Wiki URL: <https://github.com/VIJAYAYERUVA/BestBuddy/wiki/Increment1>

Project Management:

Work completed:

1. We have created Wire Frames, Sequence diagram and User Stories for our project
2. Implemented small part of our application using android studio
3. Deployed that application to Android mobile and Emulator

4. Tested the application with some test data

Issues/Concerns:

Sometimes accuracy was missed. We need to improve the application to get accurate results

Bibliography:

<https://www.youtube.com/watch?v=nzkrRQgCEmE>

<https://www.android.com/>

VI. Second Increment Report

Second Increment Report:

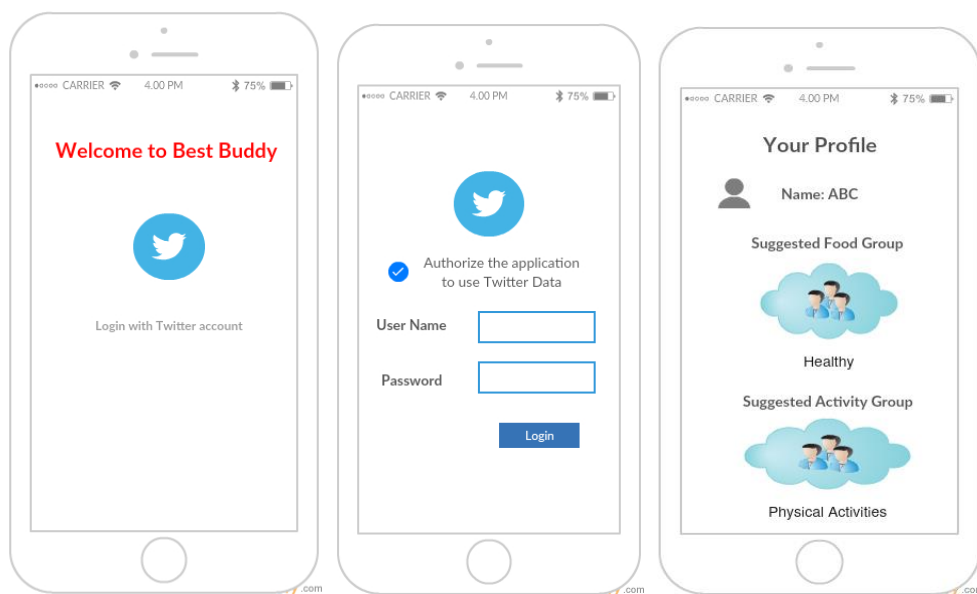
In this increment we have completed the interface for log into the application with Twitter Account. User will log into the application with twitter account.

Existing Services/REST API

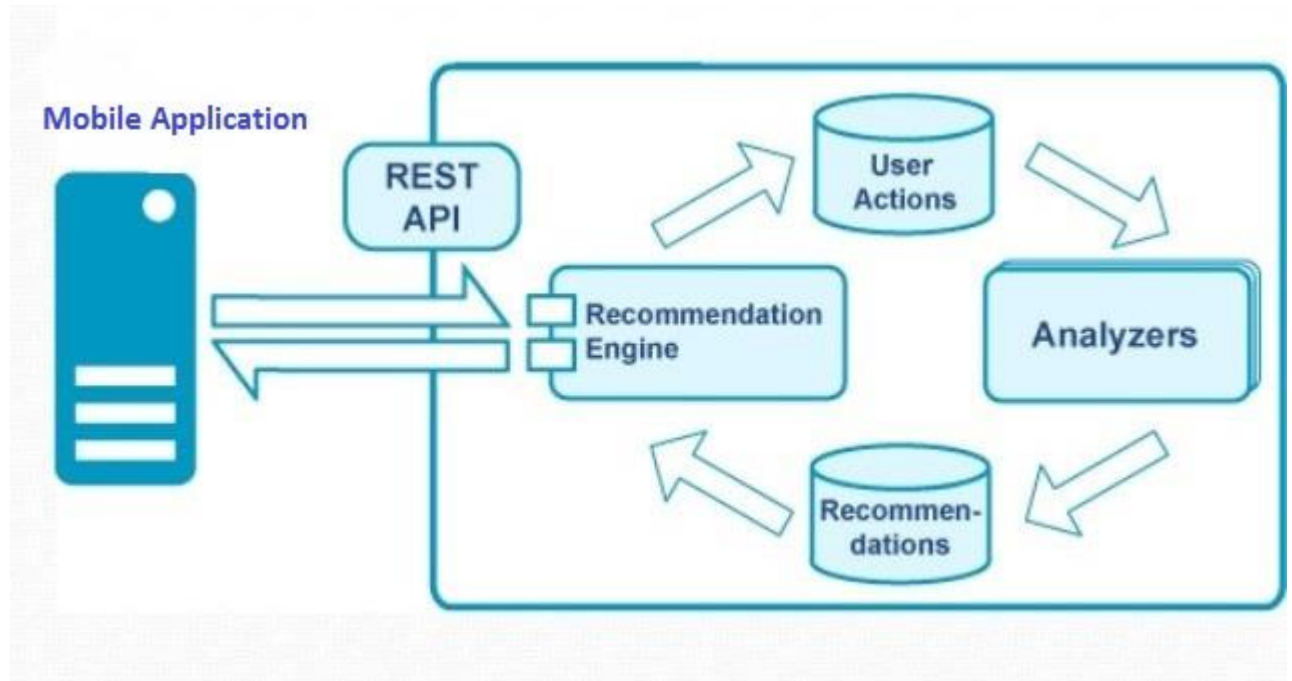
- Using Twitter API to log into the Android Application

Detail Design of Features

Wireframes



Architecture diagram



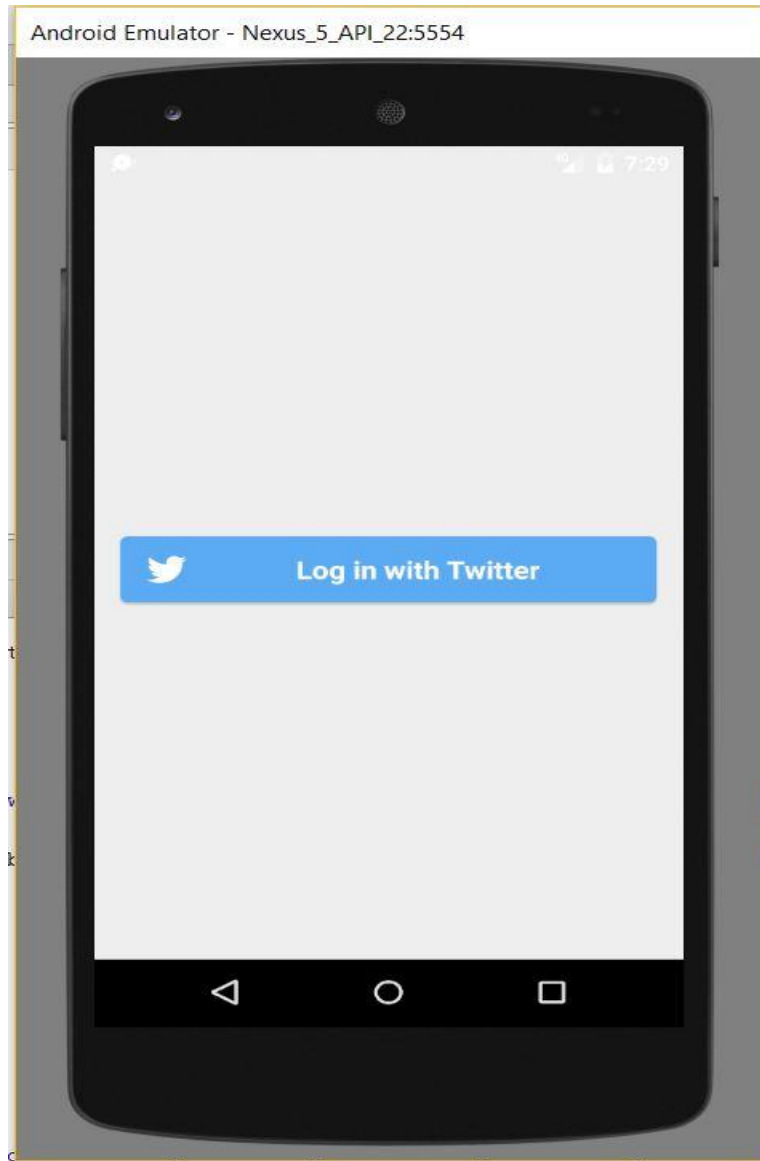
User Stories

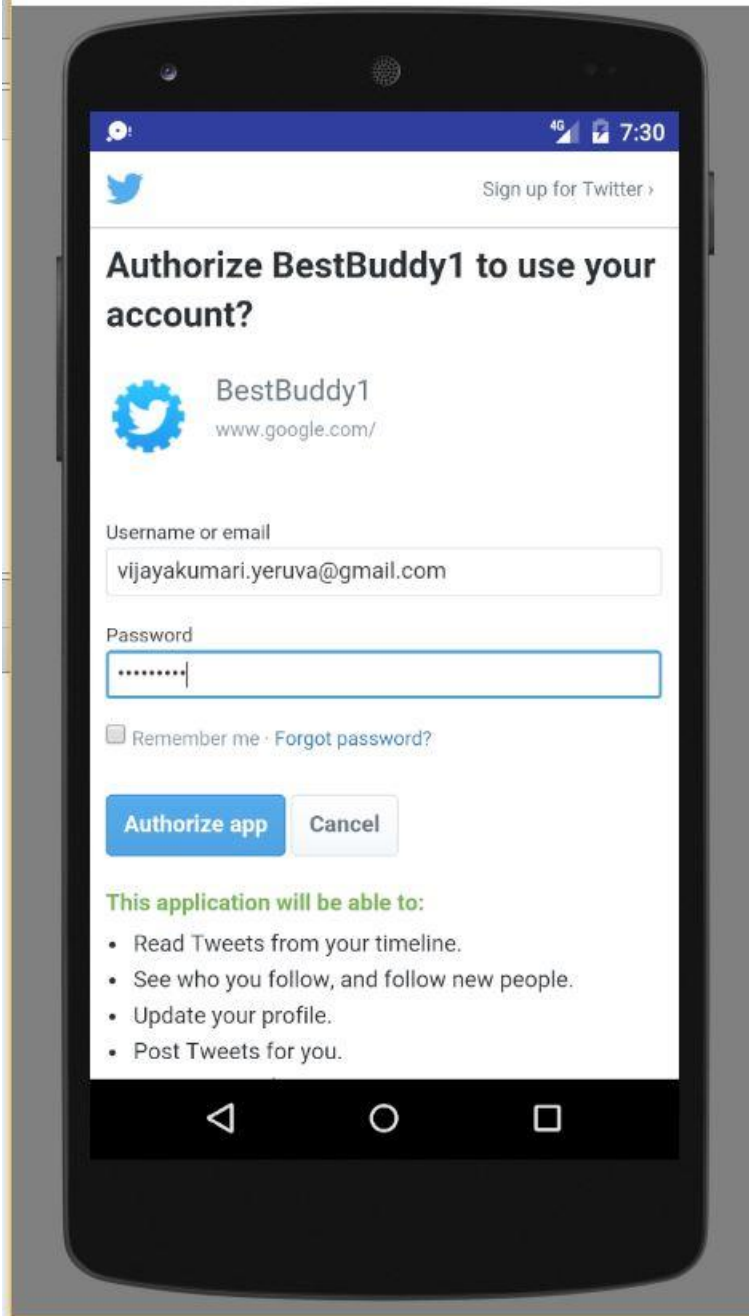
<https://github.com/VIJAYAYERUVA/BestBuddy/blob/master/Documentation/User%20Stories%20Increment2.docx>

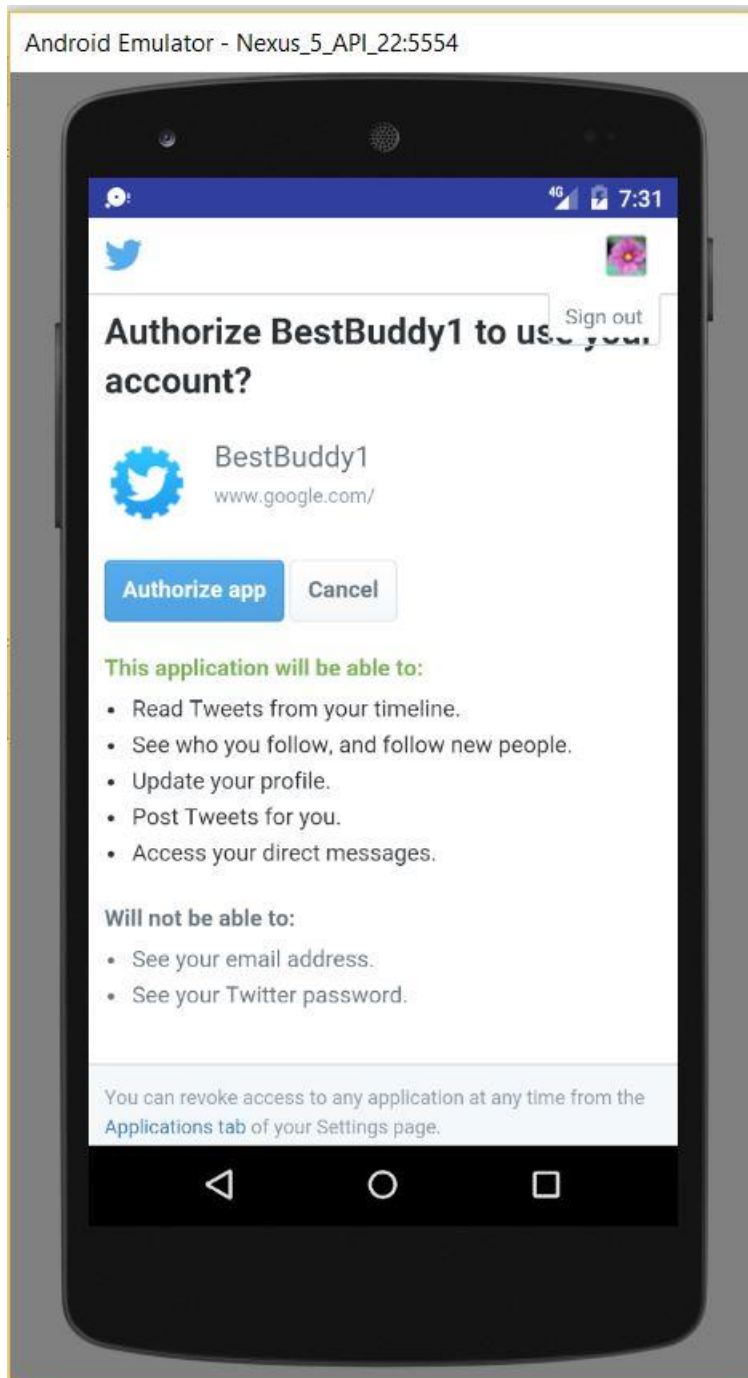
Implementation

<https://github.com/VIJAYAYERUVA/BestBuddy/tree/master/Sourcecode/Increment2/BestBuddy>

Deployment







Project Management

Time taken: 20 hours

Contribution: Equal contributions from all the group members

Reference: <https://github.com/VIJAYAYERUVA/BestBuddy/wiki/Increment2>

VII. Third Increment Report

Third Increment Report

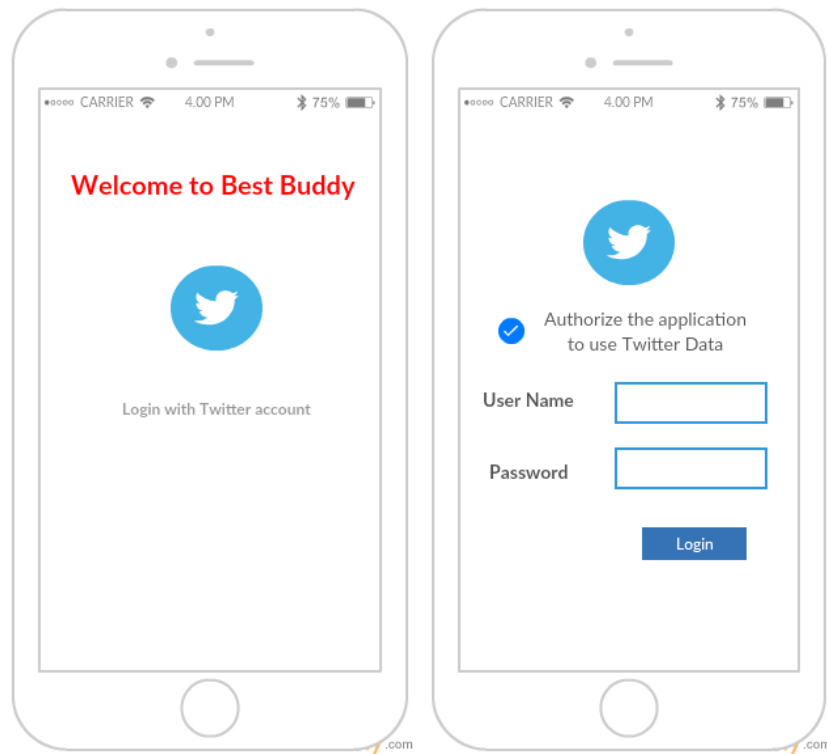
In this increment we have created one REST API using MEAN Stack, which will manipulate the twitter data. We will use this API to store and get the preprocessed twitter data whenever it is required

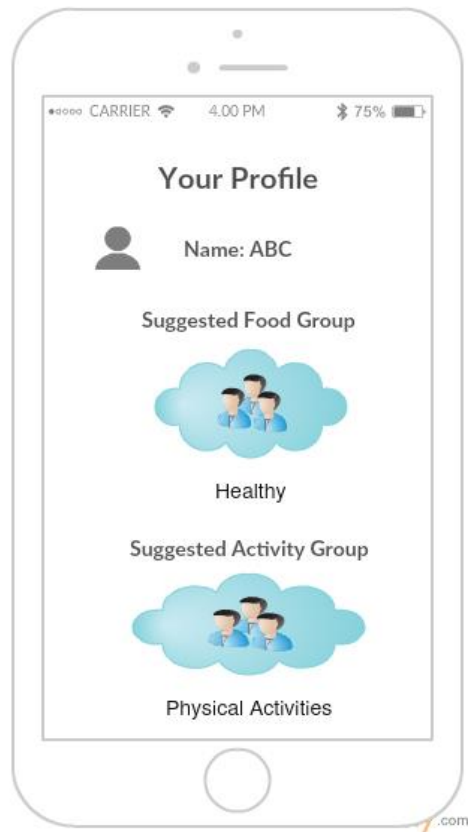
Existing Services/REST API

- Using Twitter API to log into the Android Application
- Created own REST API to manipulate the Twitter Data

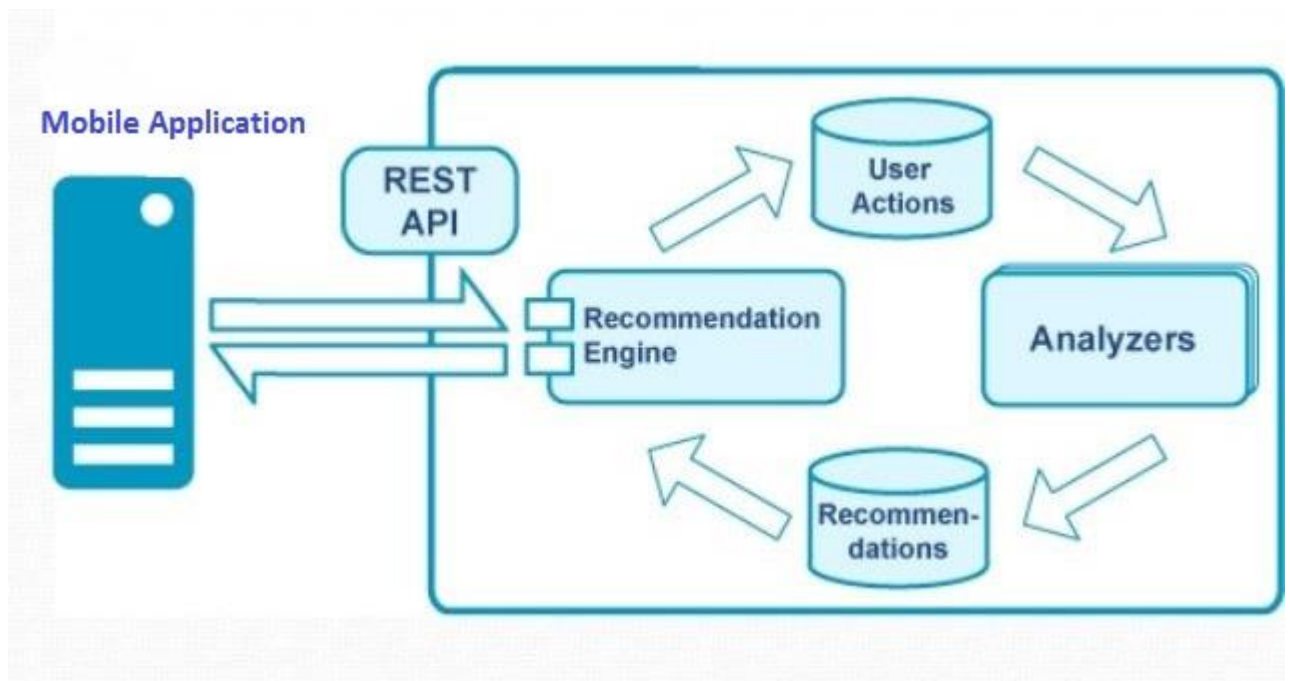
Detail Design of Features

Wireframes





Architecture diagram

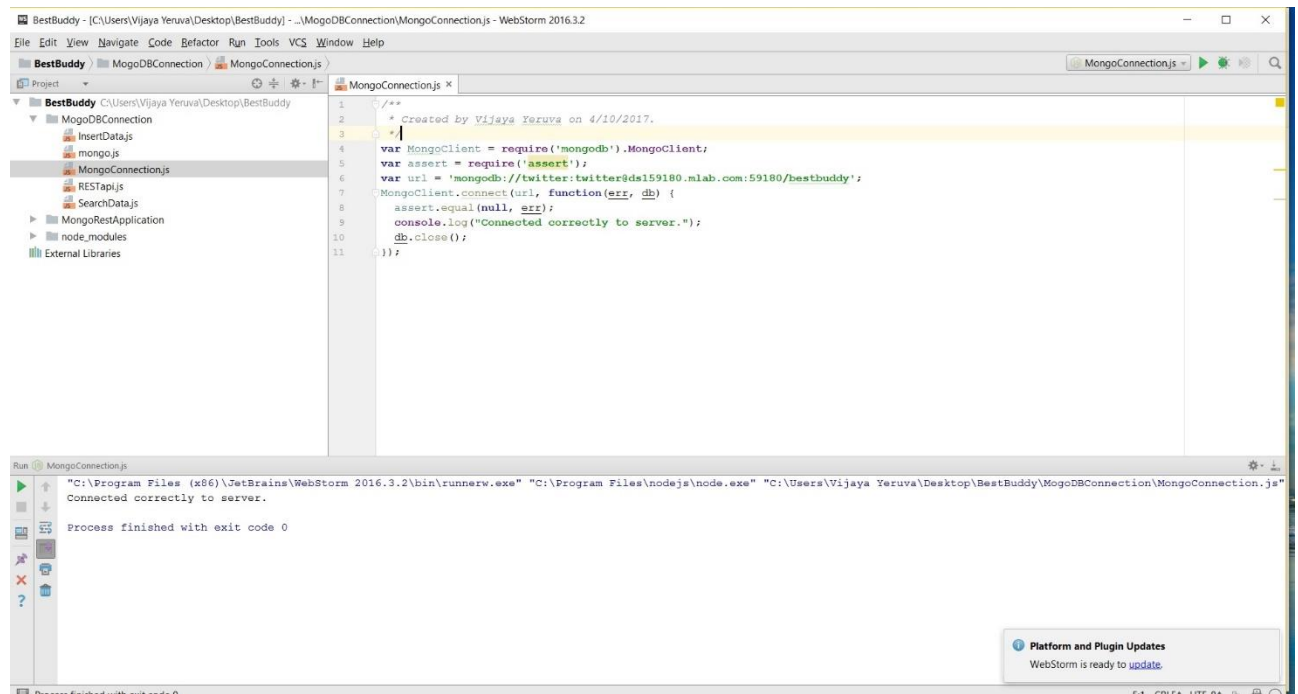


User Stories

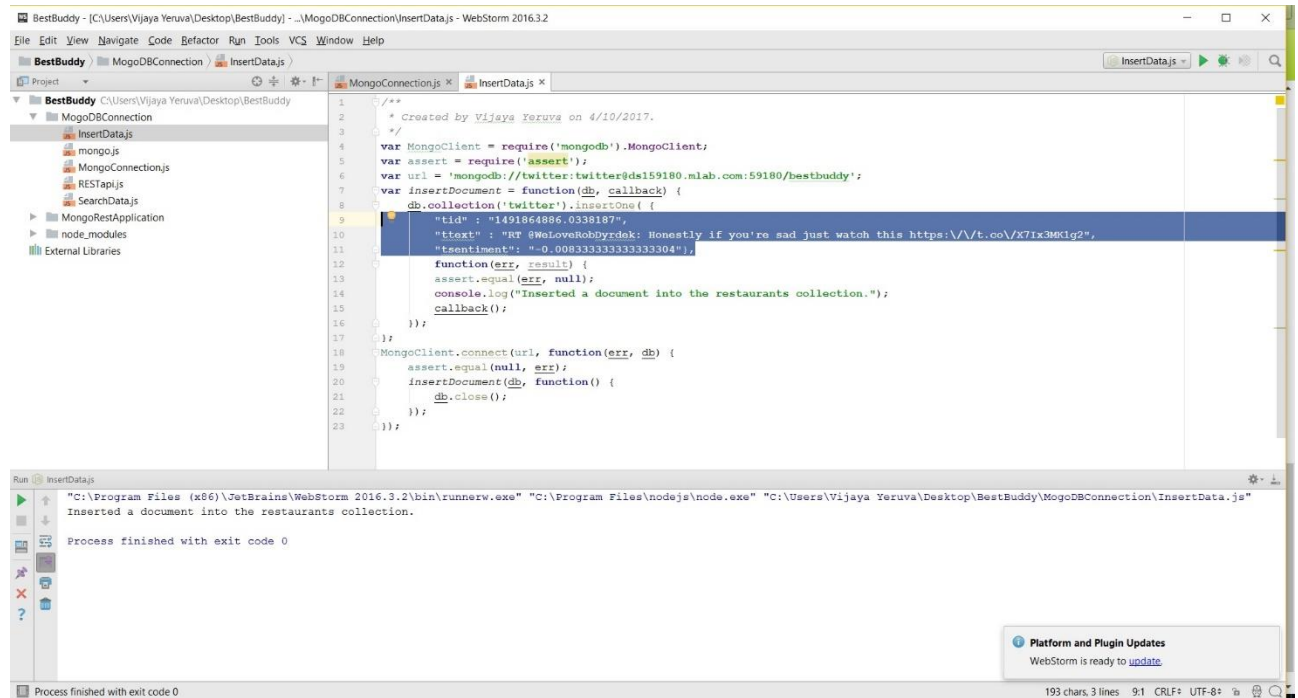
<https://github.com/VIJAYAYERUVA/BestBuddy/blob/master/Documentation/User%20Stories%20Increment2.docx>

Implementation

Connction to MongoDB:



Inserting Data to Mongo DB:



```
1  /**
2   * Created by Vijaya Yeruva on 4/10/2017.
3   */
4   var MongoClient = require('mongodb').MongoClient;
5   var assert = require('assert');
6   var url = 'mongodb://twitter:twitter@ds159180.mlab.com:59180/bestbuddy';
7   var insertDocument = function(db, callback) {
8     db.collection('twitter').insertOne({
9       "tid": "1491864886.0338187",
10      "ttext": "RT @WeLoveRobDyrdek: Honestly if you're sad just watch this https://t.co/X7ix3MK1g2",
11      "tsentiment": "-0.008333333333333304"},
12      function(err, result) {
13        assert.equal(err, null);
14        console.log("Inserted a document into the restaurants collection.");
15        callback();
16      });
17    };
18    MongoClient.connect(url, function(err, db) {
19      assert.equal(null, err);
20      insertDocument(db, function() {
21        db.close();
22      });
23    });
```

Run InsertData.js

"C:\Program Files (x86)\JetBrains\WebStorm 2016.3.2\bin\runnr.exe" "C:\Program Files\nodejs\node.exe" "C:\Users\Vijaya Yeruva\Desktop\BestBuddy\MongoDBConnection\InsertData.js"

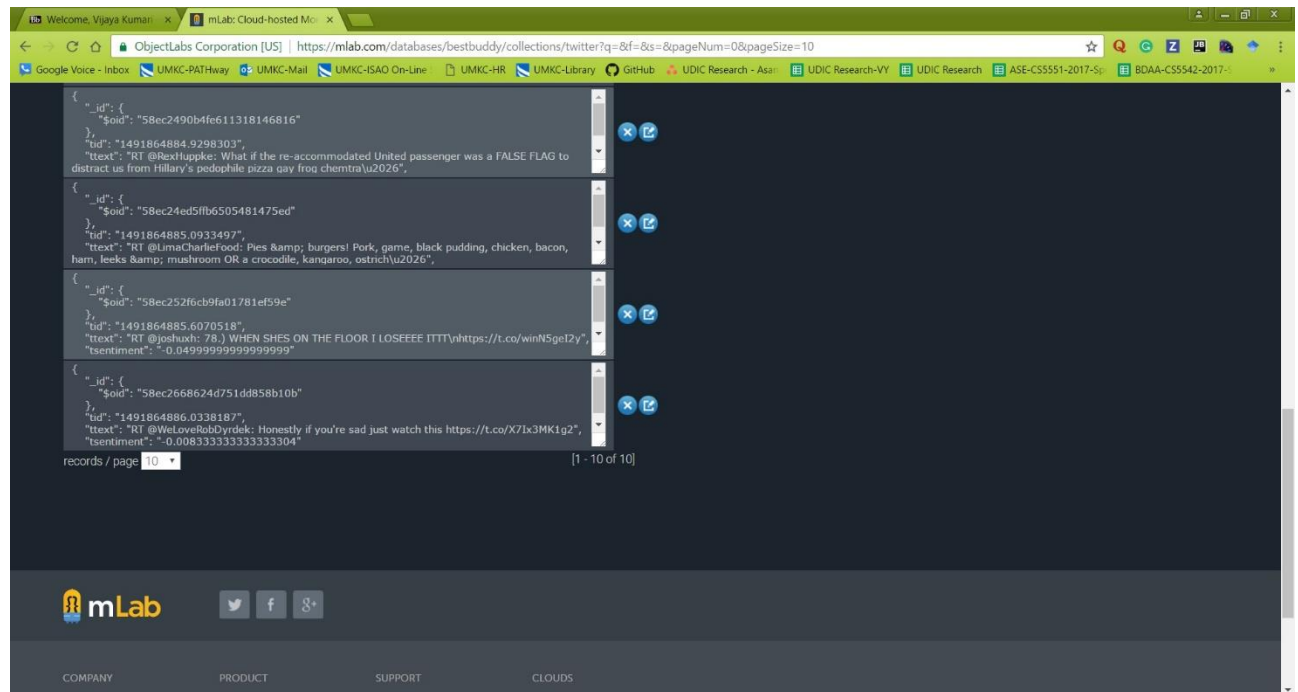
Inserted a document into the restaurants collection.

Process finished with exit code 0

Platform and Plugin Updates
WebStorm is ready to [update](#)

193 chars, 3 lines 9:1 CRLF: UTF-8

Data in Mongo DB:



ObjectLabs Corporation [US] | <https://mlab.com/databases/bestbuddy/collections/twitter?&f=&s=&pageNum=0&pageSize=10>

{ "_id": { "\$oid": "58ec2490b4fe11318146816" }, "tid": "1491864884.9298303", "ttext": "RT @RexHuppke: What if the re-accommodated United passenger was a FALSE FLAG to distract us from Hillary's pedophile pizza gay frog chemtra!u2026", "tsentiment": "-0.04999999999999999" }	X E
{ "_id": { "\$oid": "58ec24ed5fb6505481475ed" }, "tid": "1491864885.0933497", "ttext": "RT @LimaCharlieFood: Pies & burgers! Pork, game, black pudding, chicken, bacon, ham, leeks & mushroom OR a crocodile, kangaroo, ostrich!u2026", "tsentiment": "-0.04999999999999999" }	X E
{ "_id": { "\$oid": "58ec252f6cb9fa01781ef59e" }, "tid": "1491864885.6070518", "ttext": "RT @joshuxh: 78.) WHEN SHES ON THE FLOOR I LOSEEEE ITTT!https://t.co/winN5ge12y", "tsentiment": "-0.04999999999999999" }	X E
{ "_id": { "\$oid": "58ec2668624d751dd858b10b" }, "tid": "1491864886.0338187", "ttext": "RT @WeLoveRobDyrdek: Honestly if you're sad just watch this https://t.co/X7ix3MK1g2", "tsentiment": "-0.008333333333333304" }	X E

records / page 10 [1 - 10 of 10]

mLab

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Reteriving the existing Data: (All data)

The screenshot shows a VS Code editor with a project named 'BestBuddy'. The file explorer on the left shows a folder 'MogoDBConnection' containing 'mongo.js', 'MongoConnection.js', 'RESTapi.js', and 'SearchData.js'. The 'SearchData.js' file is open in the editor, showing the following code:

```
28 }
29
30 }
31
32 var findUserwithText = function(db, callback) {
33   var cursor = db.collection('twitter').find({'ttext':'like'});
34   cursor.each(function(err, doc) {
35     assert.equal(err, null);
36     if (doc != null)
37     {
38       console.log("Twitter ID:" + doc.fname);
39       console.log("Twitter Text:" + doc.lname);
40       console.log("Twitter Sentiment:" + doc.address.city);
41     }
42   });
43 }
44
45 MongoClient.connect(url, function(err, db) {
46   assert.equal(null, err);
47   findUser(db, function() {
48     db.close();
49   });
50 });
```

The console output at the bottom shows the results of the search:

```
"C:\Program Files (x86)\JetBrains\WebStorm 2016.3.2\bin\runnerw.exe" "C:\Program Files\nodejs\node.exe" "C:\Users\Vijaya Yeruva\Desktop\BestBuddy\MogoDBConnection\SearchData.js"
{ _id: 58ec1a5b76a0e109385cfff56,
  tid: '1491864883.9703474',
  ttext: 'different colored candy',
  tsentiment: '0.0' }
{ _id: 58ec1b74c78adf122c5f0e39,
  tid: '1491864883.975828',
  ttext: 'RT @maria_htrza: 35. do you think he bought himself another taco :/ https://t.co/wbuDWIqJfn',
  tsentiment: '0.0' }
{ _id: 58ec21f1cb390d1bd8f283e4,
  tid: '1491864883.9793293',
  ttext: 'RT @MovieScenez: Willy Wonka and the chocolate factory (1971) https://t.co/Y7wLTqALD6',
  tsentiment: '0.0' }
{ _id: 58ec22ade0ee6c11a0faa612,
  tid: '1491864884.0978322',
  ttext: 'RT @nychoHotelGrl: Believe the hype! Delicious ice cream in a cotton candy cloud is all a girl needs to need to be happy!',
  tsentiment: '1.0' }
{ _id: 58ec23006887d724dc10f5e5,
  tid: '1491864884.5013802',
  ttext: 'RT @alyxhenagan: healthy vs. unhealthy relationships https://t.co/XW7PJrKWP',
  tsentiment: '0.0' }
```

Reteriving the existing Data: (based on particular condition)

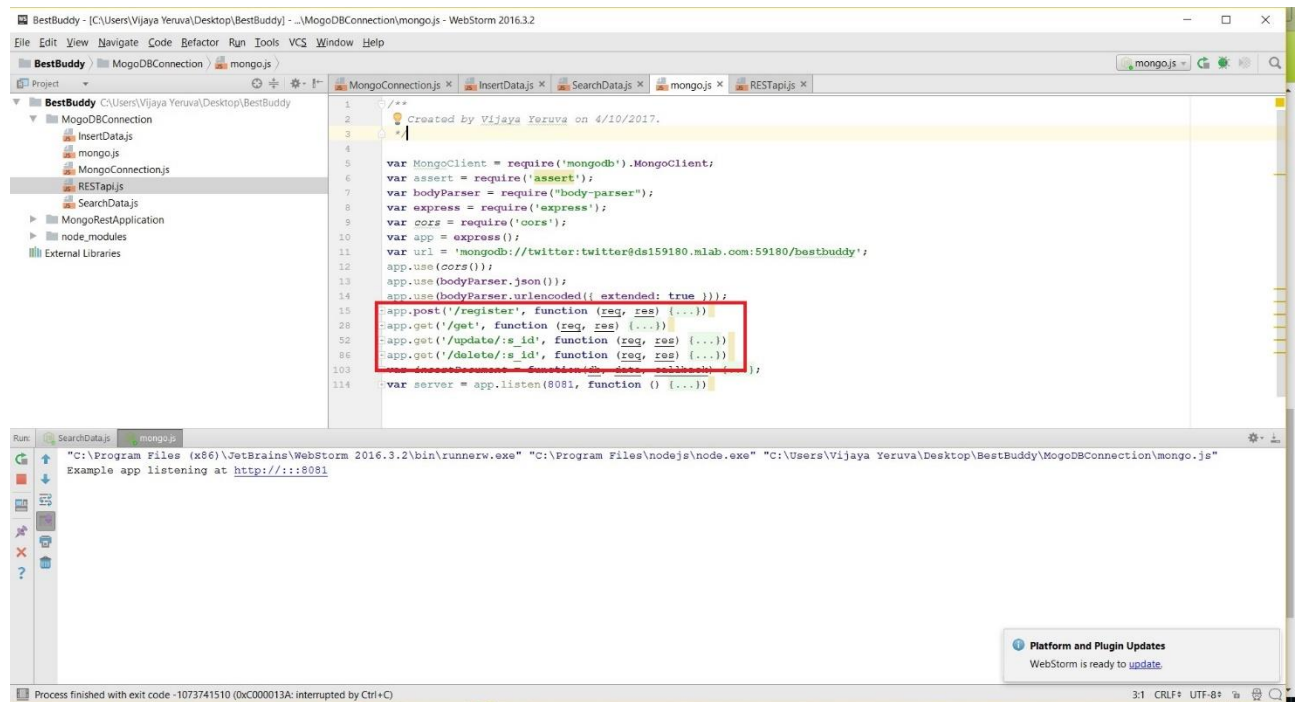
The screenshot shows a VS Code editor with a project named 'BestBuddy'. The file explorer on the left shows a folder 'MogoDBConnection' containing 'mongo.js', 'MongoConnection.js', 'RESTapi.js', and 'SearchData.js'. The 'SearchData.js' file is open in the editor, showing the following code:

```
34 assert.equal(err, null);
35 if (doc != null)
36 {
37   console.log("Twitter ID:" + doc.fname);
38   console.log("Twitter Text:" + doc.lname);
39   console.log("Twitter Sentiment:" + doc.address.city);
40 }
41 }
42 });
43
44 MongoClient.connect(url, function(err, db) {
45   assert.equal(null, err);
46   findUserwithSentiment(db, function() {
47     db.close();
48   });
49 });
```

The console output at the bottom shows the results of the search:

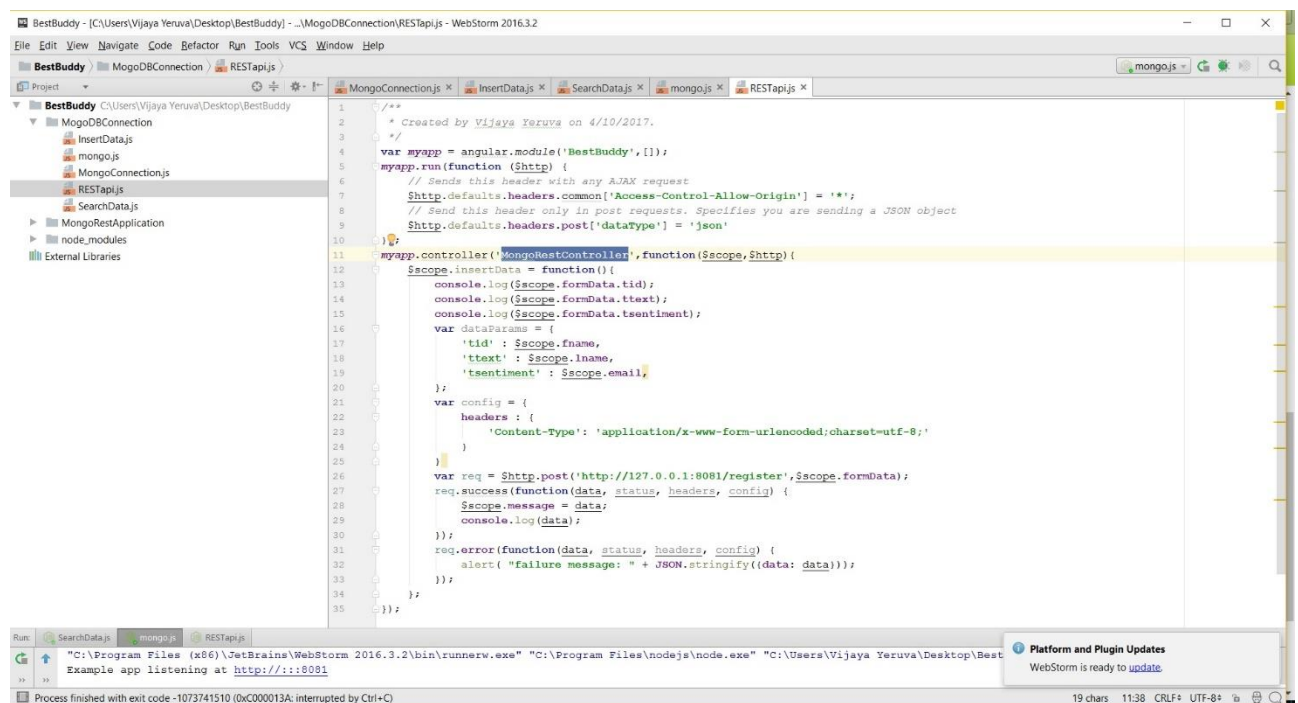
```
"C:\Program Files (x86)\JetBrains\WebStorm 2016.3.2\bin\runnerw.exe" "C:\Program Files\nodejs\node.exe" "C:\Users\Vijaya Yeruva\Desktop\BestBuddy\MogoDBConnection\SearchData.js"
Twitter ID:1491864883.9703474
Twitter Text:different colored candy
Twitter Sentiment:0.0
Twitter ID:1491864883.975828
Twitter Text:RT @maria_htrza: 35. do you think he bought himself another taco :/ https://t.co/wbuDWIqJfn
Twitter Sentiment:0.0
Twitter ID:1491864883.9793293
Twitter Text:RT @MovieScenez: Willy Wonka and the chocolate factory (1971) https://t.co/Y7wLTqALD6
Twitter Sentiment:0.0
```

Creating REST API



```
1  /**
2   * Created by Vijaya Yerruva on 4/10/2017.
3   */
4
5   var MongoClient = require('mongodb').MongoClient;
6   var assert = require('assert');
7   var bodyParser = require('body-parser');
8   var express = require('express');
9   var cors = require('cors');
10  var app = express();
11  var url = 'mongodb://twitter:twitter@ds159180.mlab.com:59180/bestbuddy';
12  app.use(cors());
13  app.use(bodyParser.json());
14  app.use(bodyParser.urlencoded({ extended: true }));
15  app.post('/register', function (req, res) {...});
16  app.get('/get', function (req, res) {...});
17  app.get('/update/:s_id', function (req, res) {...});
18  app.get('/delete/:s_id', function (req, res) {...});
19  var server = app.listen(8081, function () {...});
```

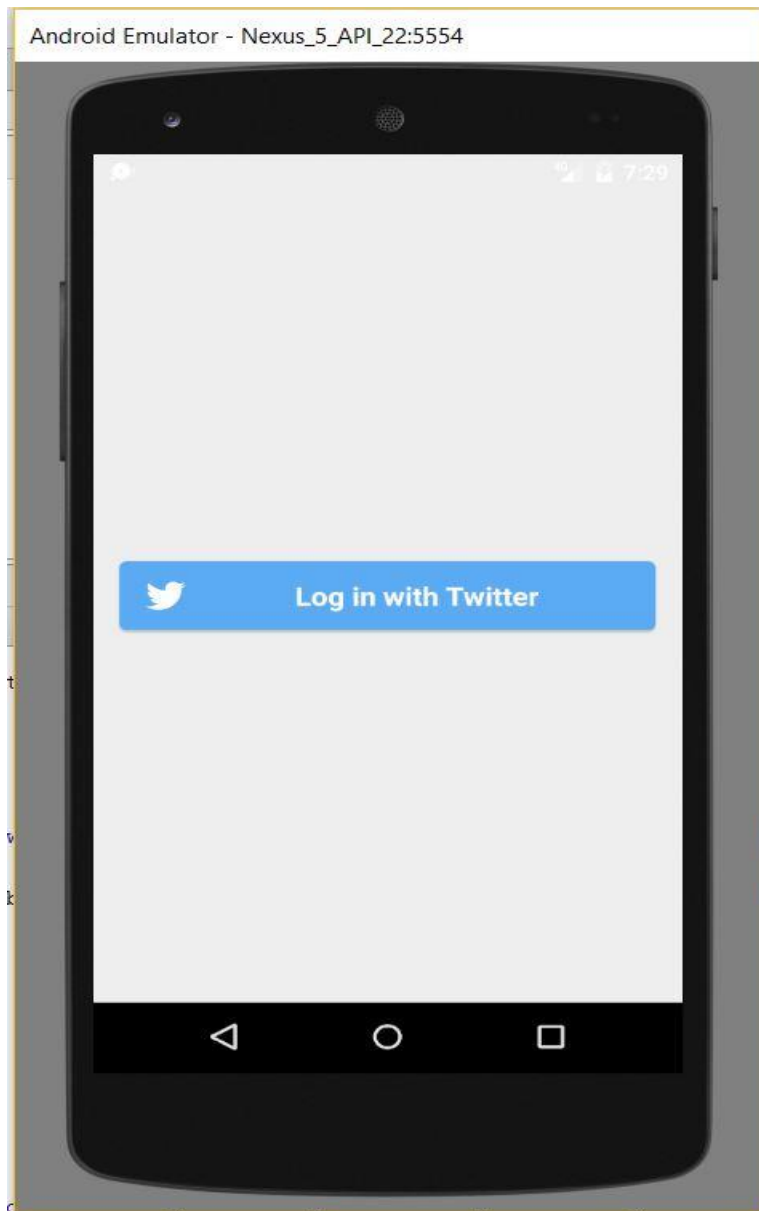
Run: "C:\Program Files (x86)\JetBrains\WebStorm 2016.3.2\bin\runnerw.exe" "C:\Program Files\nodejs\node.exe" "C:\Users\Vijaya Yerruva\Desktop\BestBuddy\MongoDBConnection\mongo.js"
Example app listening at <http://localhost:8081>

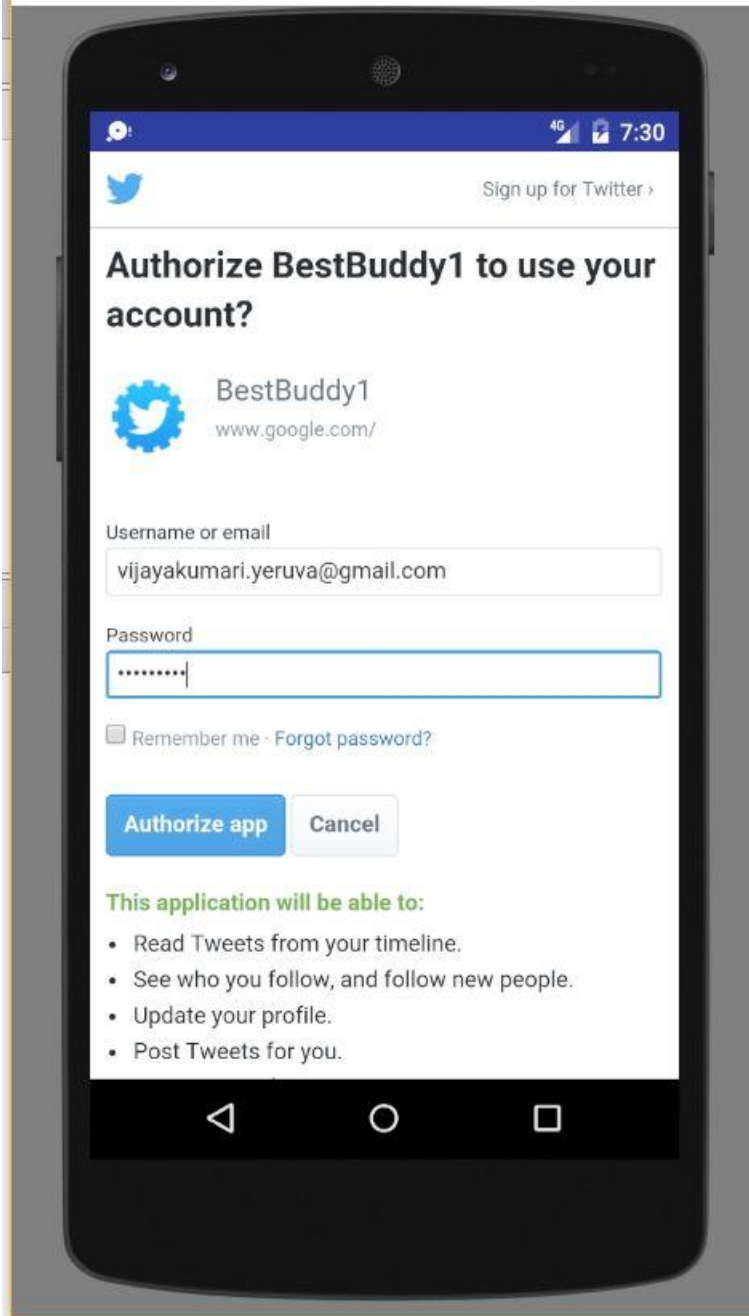


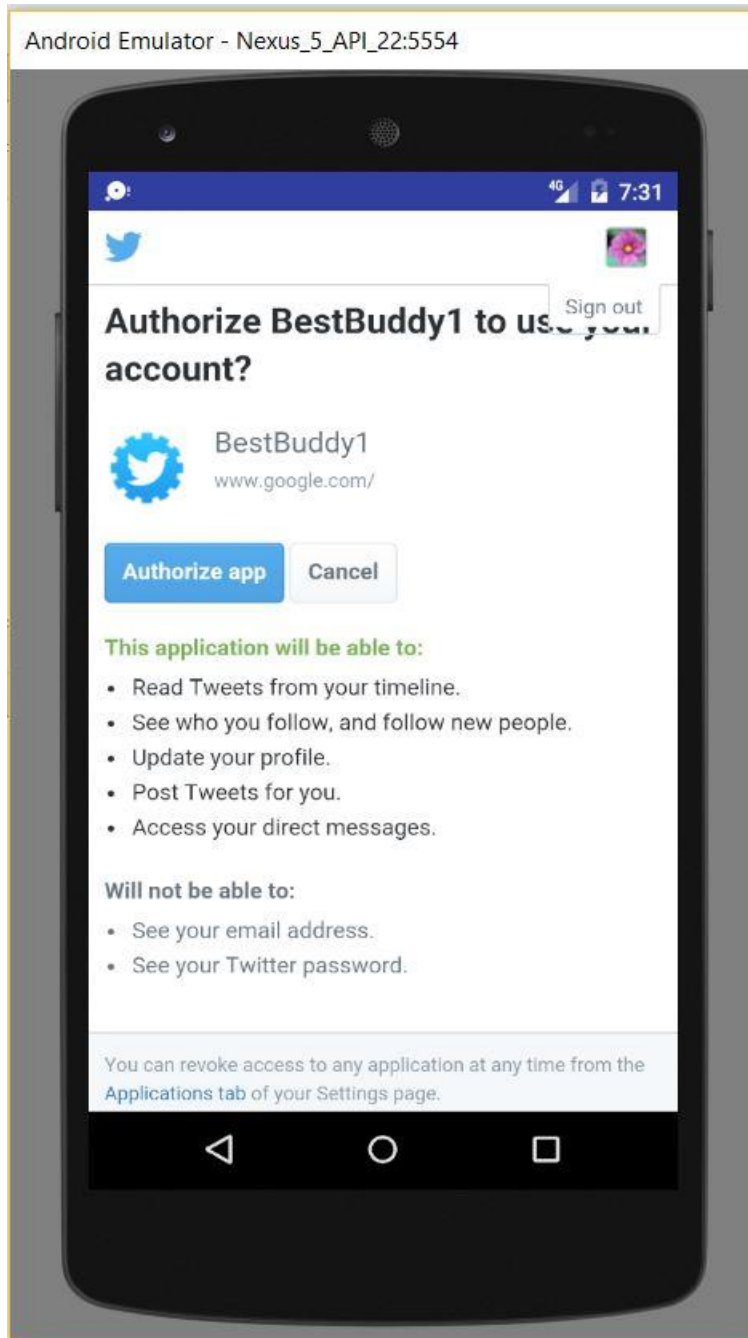
```
1  /**
2   * Created by Vijaya Yerruva on 4/10/2017.
3   */
4
5   var myapp = angular.module('BestBuddy', []);
6   myapp.run(function ($http) {
7     // Sends this header with any AJAX request
8     $http.defaults.headers.common['Access-Control-Allow-Origin'] = '*';
9     // Send this header only in post requests. Specifies you are sending a JSON object
10    $http.defaults.headers.post['dataType'] = 'json';
11  });
12  myapp.controller('MongoRestController', function ($scope, $http) {
13    $scope.insertData = function () {
14      console.log($scope.formData.tid);
15      console.log($scope.formData.ttext);
16      console.log($scope.formData.tsentiment);
17      var dataParams = {
18        'tid': $scope.fname,
19        'ttext': $scope.lname,
20        'tsentiment': $scope.email,
21      };
22      var config = {
23        headers: {
24          'Content-Type': 'application/x-www-form-urlencoded; charset=utf-8;'
25        }
26      };
27      var req = $http.post('http://127.0.0.1:8081/register', $scope.formData);
28      req.success(function (data, status, headers, config) {
29        $scope.message = data;
30        console.log(data);
31      });
32      req.error(function (data, status, headers, config) {
33        alert("failure message: " + JSON.stringify((data: data)));
34      });
35    };
36  });
```

Run: "C:\Program Files (x86)\JetBrains\WebStorm 2016.3.2\bin\runnerw.exe" "C:\Program Files\nodejs\node.exe" "C:\Users\Vijaya Yerruva\Desktop\BestBuddy\MongoDBConnection\RESTapi.js"
Example app listening at <http://localhost:8081>

Deployment







Project Management

Time taken: 10 hours

Contribution: Equal contributions from all the group members

Reference: <https://github.com/VIJAYAYERUVA/BestBuddy/wiki/Increment3>

VIII. Fourth Increment Report

I. Team Members:

Yeruva, Vijaya Kumari (Id: 94)

Goudarzvand, Saria (Id: 95)

II. Project Overview:

The purpose of the project is to create an application that predict the user behavior (happy or unhappy) based on his/her tweets/text.

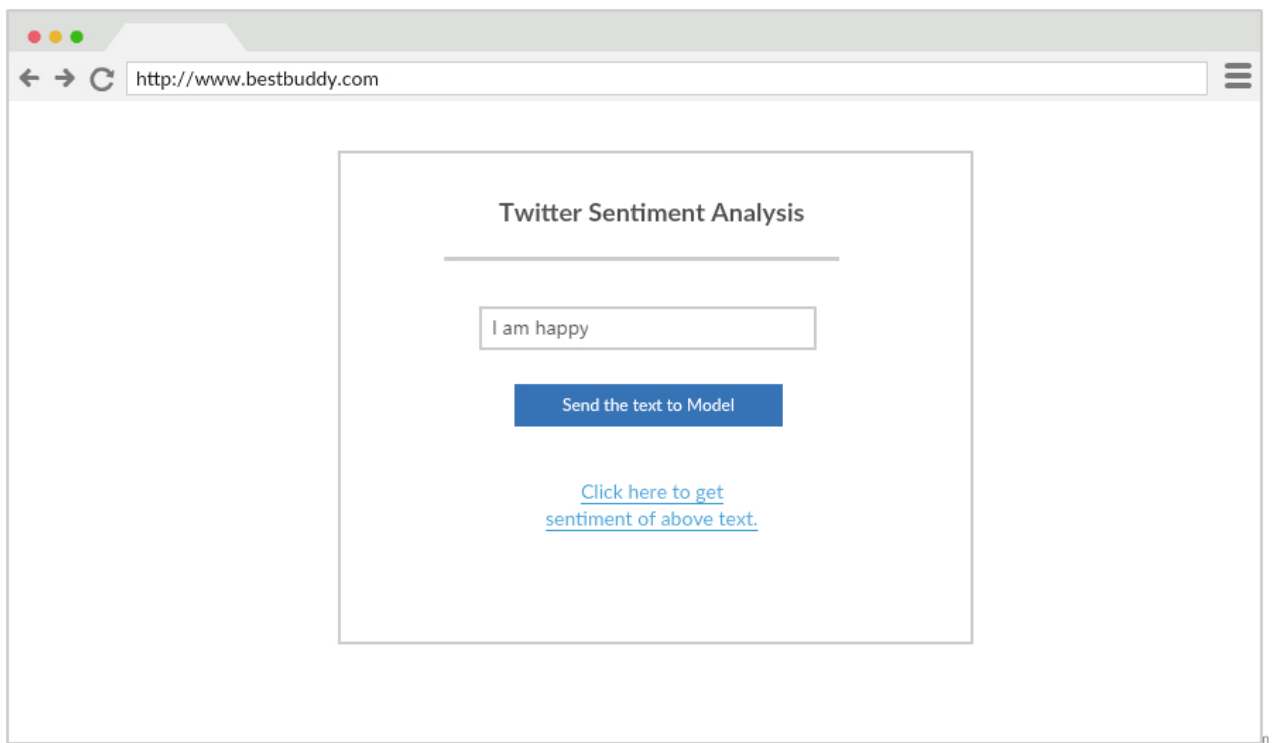
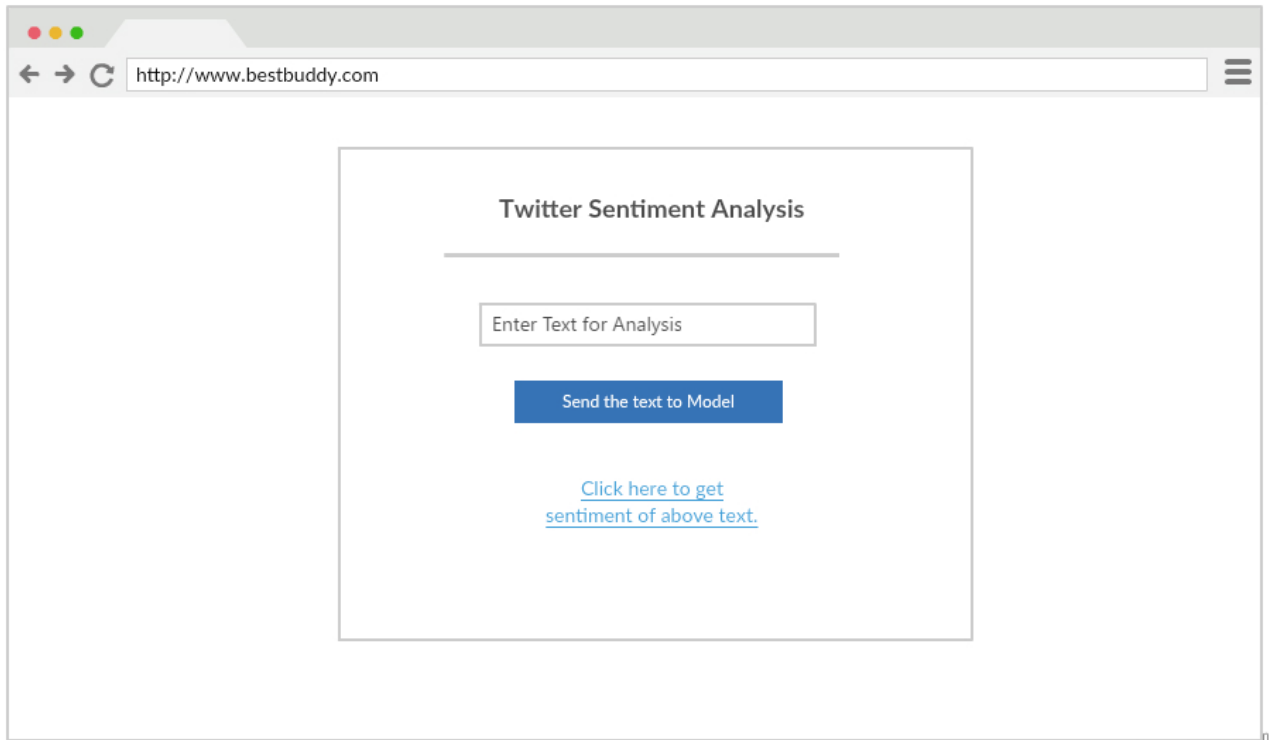
In this increment we have developed a web application which will take the user's text as input and send it to the model, after process the text through model, the application will display the output as text and sentiment of that text

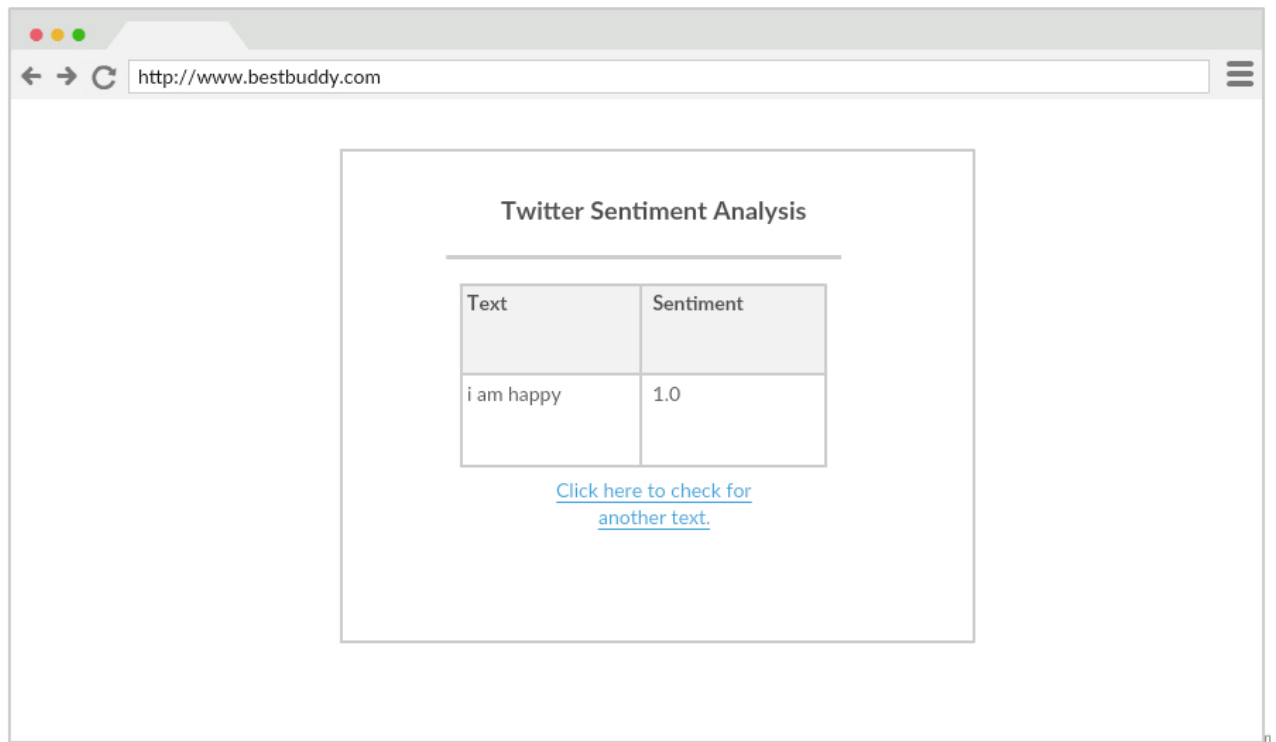
III. Existing Services/REST API

- Created own REST API to insert and get the data from MongoDB
- Created own REST API to give and take data from the Tensor flow CNN Model

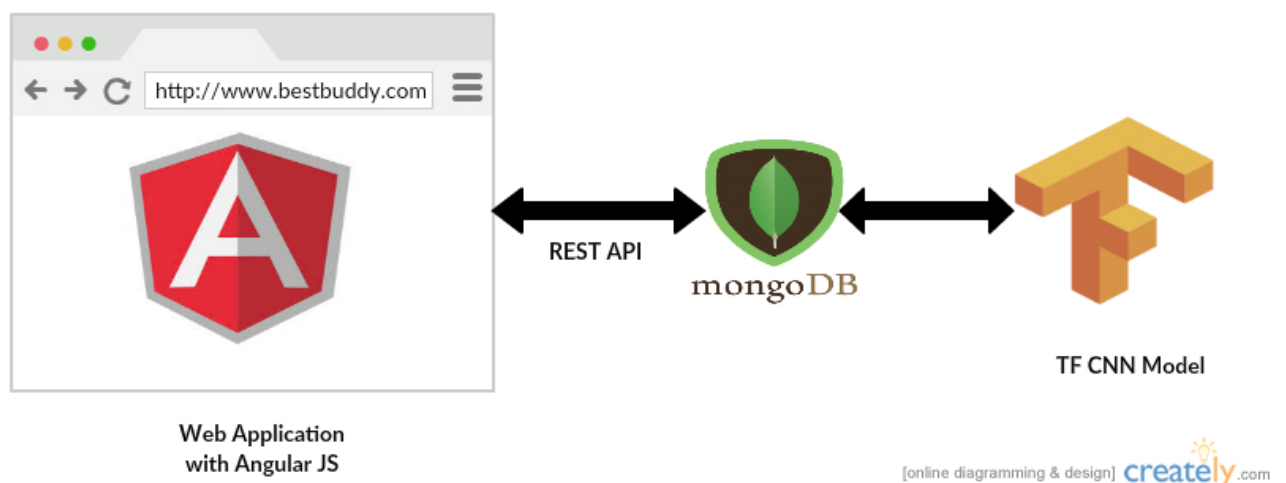
IV. Detail Design of Features

Wireframes





Architecture diagram



Design Patterns

We Used Creational Design Pattern(Singleton) for web application

Singleton
- <u>singleton : Singleton</u>
- Singleton()
+ <u>getInstance() : Singleton</u>

User Stories

Link:

https://github.com/VIJAYAYERUVA/BestBuddy/blob/master/Documentation/ASE_Increment4/User%20Stories.txt

V. Testing

Tested the performance of the web application with “YSlow” on Chrome browser. Got the Grade B as result of performance

The screenshot shows a web browser window with a tab titled 'BestBuddy'. The address bar shows the URL: `localhost:63342/BestBuddy/MongoRestApplication/js/index.js?_ijt=n3jji68gn4hlm8orkam9mlki2s`. The page content displays a 'Twitter Sentiment Analysis' form with a text input field labeled 'Enter Text for Analysis' and a green button labeled 'Send the text to Model'. Below the button is a link: 'Click here to get sentiment of above text.'.

Overlaid on the bottom half of the browser window is the YSlow performance tool interface. It shows a 'Grade B' overall performance score. The left sidebar lists various optimization rules, including 'Make fewer HTTP requests' (Grade A), 'Use a Content Delivery Network (CDN)' (Grade F), 'Avoid empty src or href' (Grade A), 'Add Expires headers' (Grade F), 'Compress components with gzip' (Grade B), 'Put CSS at top' (Grade A), 'Put JavaScript at bottom' (Grade A), 'Avoid CSS expressions' (Grade A), 'Make JavaScript and CSS external' (Grade N/A), 'Reduce DNS lookups' (Grade A), and 'Minify JavaScript and CSS' (Grade A). The main panel displays the 'Grade A on Make fewer HTTP requests' rule, stating: 'This page has 4 external Javascript scripts. Try combining them into one.' It also provides a detailed explanation: 'Decreasing the number of components on a page reduces the number of HTTP requests required to render the page, resulting in faster page loads. Some ways to reduce the number of components include: combine files, combine multiple scripts into one script, combine multiple CSS files into one style sheet, and use CSS Sprites and image maps.' A 'Read More' link is provided.

The top part of the image shows a web browser window displaying a "Twitter Sentiment Analysis" application. The application has a green and yellow background with a large green 'A' and a yellow 'B'. It features a table with sentiment analysis results:

text	Sentiment
i am so happy	1.0
i feeling bad	0.0
insert new data	0.0
i am bad	0.0

Below the table, there is a link that says "Click here to check for another text."

The bottom part of the image shows a Chrome extension interface for "YSlow(V2)". It displays a "Grade B" overall performance score and a list of recommendations for improving the page's performance. The recommendations include:

- A Make fewer HTTP requests
- F Use a Content Delivery Network (CDN)
- A Avoid empty src or href
- F Add Expires headers
- A Compress components with gzip
- A Put CSS at top
- A Put JavaScript at bottom
- A Avoid CSS expressions
- n/a Make JavaScript and CSS external

The extension also shows a "Read More" link and a copyright notice for Yahoo! Inc. All rights reserved.

VI. Implementation”

Created a REST API to connect Web Application and DB:

Connection to MongoDB:

The image shows a code editor window with a file explorer on the left and a code editor on the right. The file explorer shows a project structure for "BestBuddy" with files like "css", "images", "js", "index.js", "getdata.js", "mongo.js", "home.html", "index.html", and "node_modules". The code editor shows the implementation of a REST API to connect a web application to MongoDB. The code is as follows:

```

1 //
2 * Created by user on 23/10/2016.
3 */
4 var MongoClient = require('mongodb').MongoClient;
5 var assert = require('assert');
6 var bodyParser = require('body-parser');
7 var express = require('express');
8 var cors = require('cors');
9 var app = express();
10 var result = { 'body': {} };
11 var url = 'mongodb://VIJAYAYERUVA:VIJAYAYERUVA@ds123361.mlab.com:23361/restapi';
12 app.use(cors());
13 app.use(bodyParser.json());
14 app.use(bodyParser.urlencoded({ extended: true }));
15 app.post('/register', function (req, res) {
16   MongoClient.connect(url, function (err, db) {
17     if (err) {
18       res.write("Failed. Error while connecting to Database");
19       res.end();
20     }
21   });
22 })
  
```

The code is a Node.js application using Express.js and MongoDB. It connects to a MongoDB database and registers a new user. The code is written in JavaScript and uses the following modules:

- require('mongodb')
- require('assert')
- require('body-parser')
- require('express')
- require('cors')

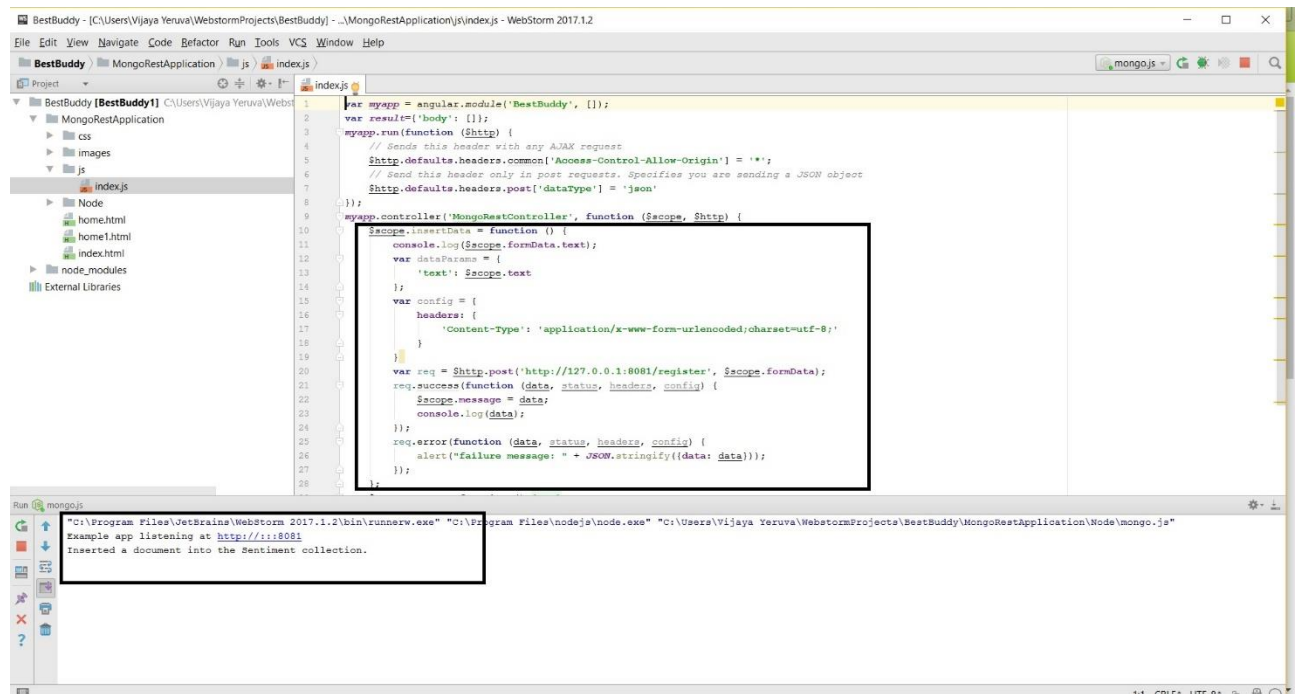
The code is a REST API to connect a web application to MongoDB. It uses the following endpoints:

- POST /register: Register a new user.

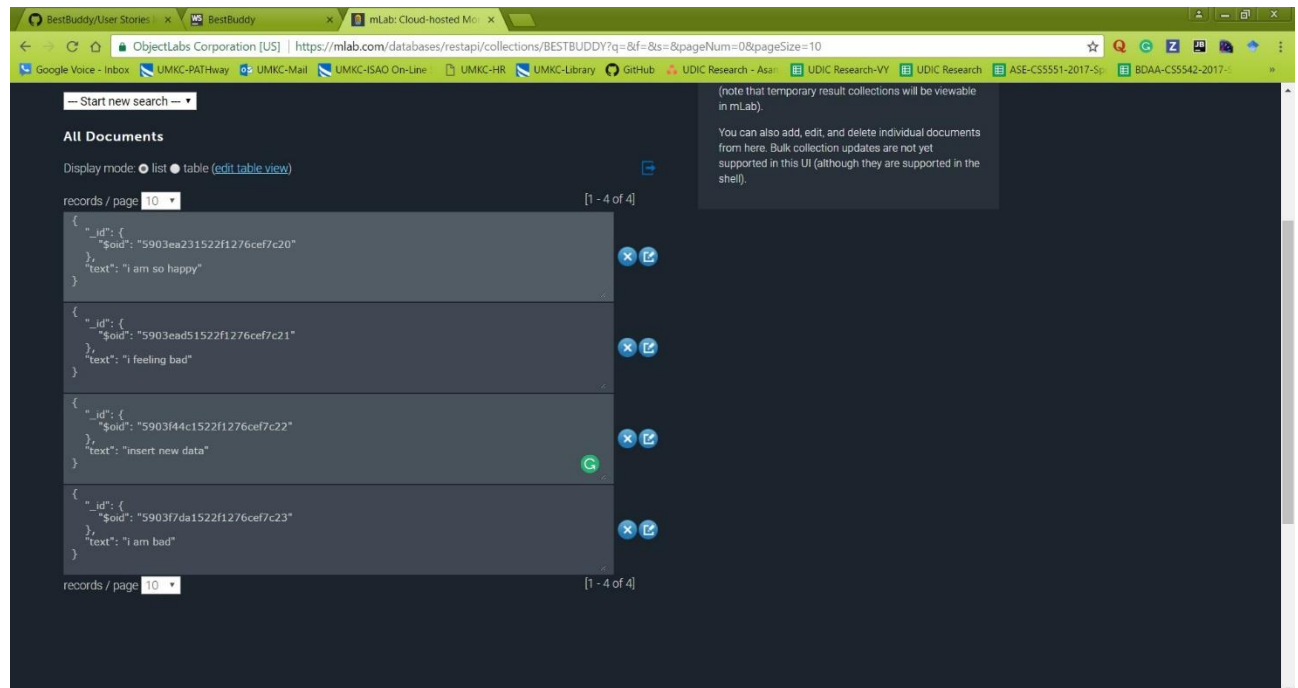
The code is a REST API to connect a web application to MongoDB. It uses the following modules:

- require('mongodb')
- require('assert')
- require('body-parser')
- require('express')
- require('cors')

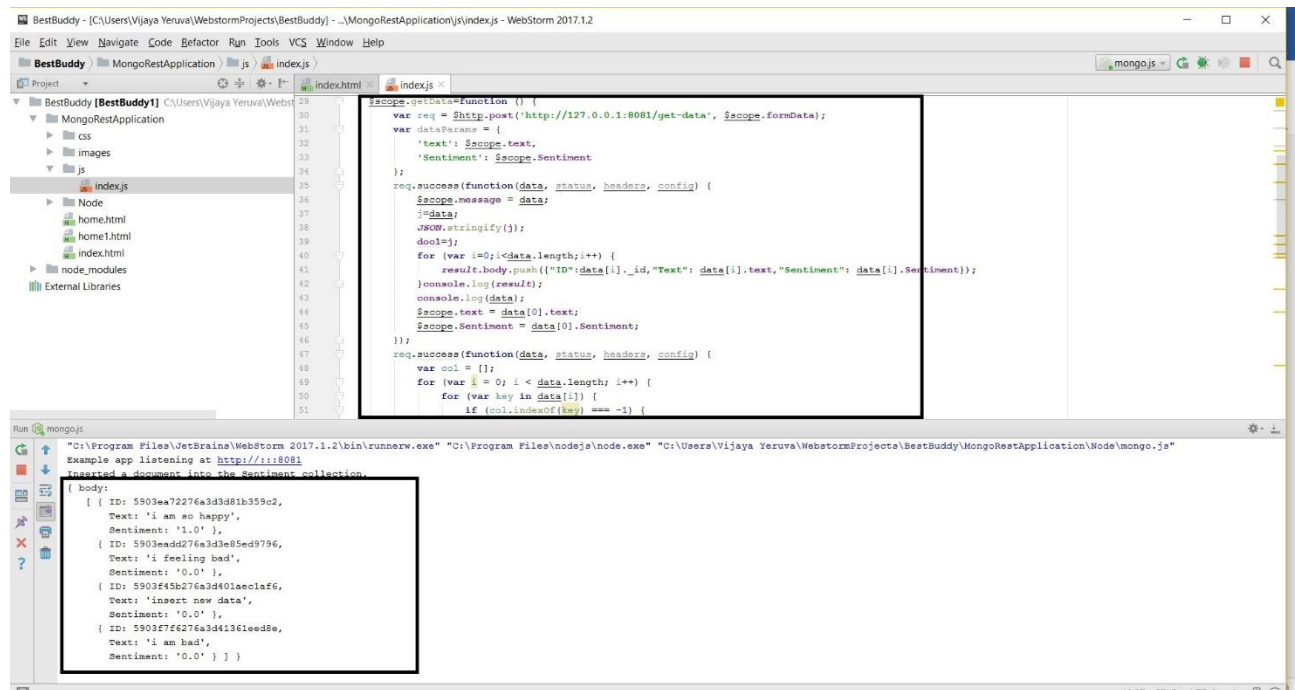
Inserting Data to MongoDB:



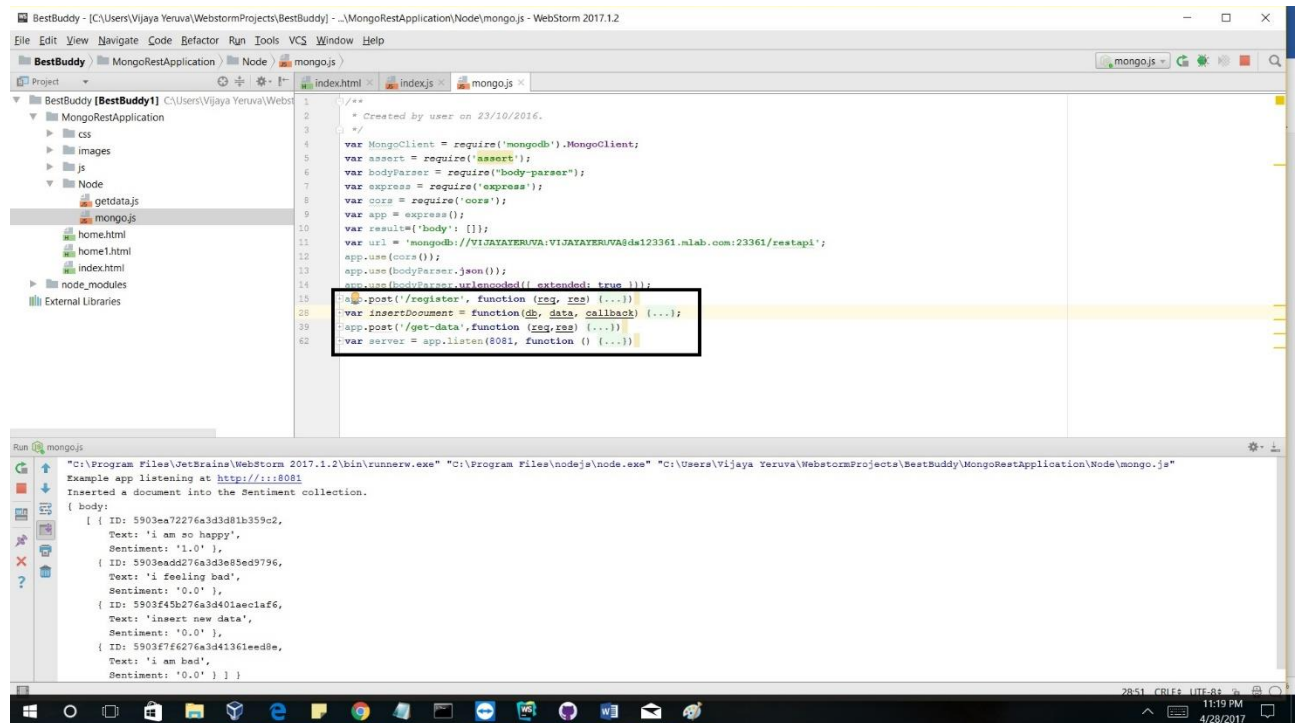
Data in MongoDB:



Reteriving Data from MongoDB:

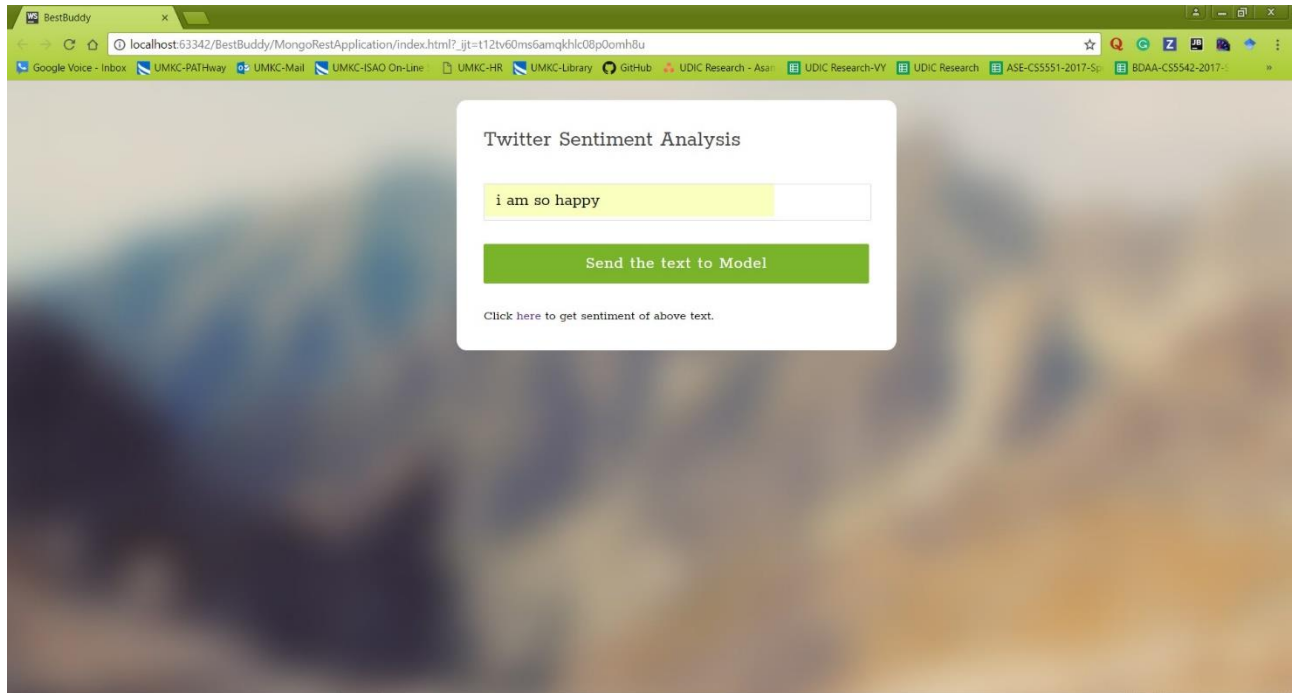


Creating REST API:



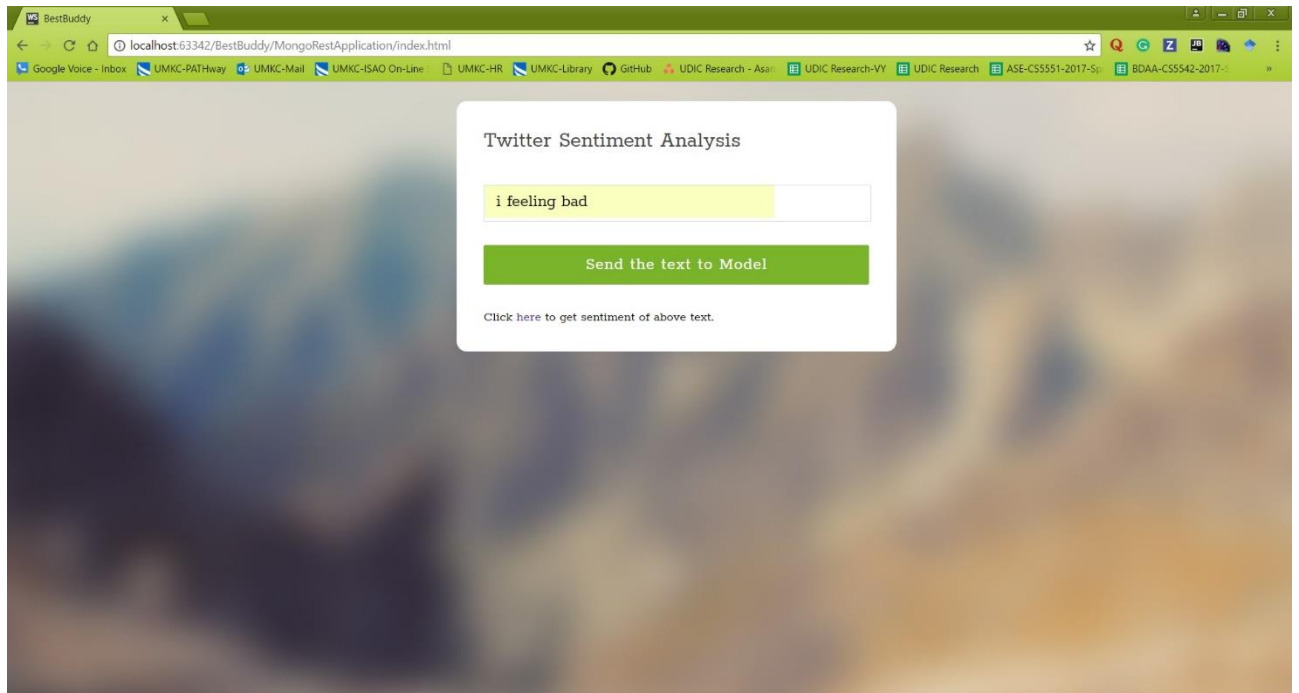
VII. Deployment

User will enter the text here to get the sentiment



Click on 'Send the text to Model' button to send the text to model. After that click on link to get sentiment of the text





Twitter Sentiment Analysis

text	Sentiment
i am so happy	1.0
i feeling bad	0.0

[Click here to check for another text.](#)



WIKI Page on GitHub:

<https://github.com/VIJAYAYERUVA/BestBuddy/wiki/Increment4>

VIII. Project Management

Time taken: 40 hours

Issues: Tried a lot to implement with twitter details and with 6 categories, but unable to achieve that in given time lines

IX. Bibliography:

1. <https://docs.mongodb.com/manual/>
2. <http://www.restapitutorial.com/>
3. <https://www.tensorflow.org/>

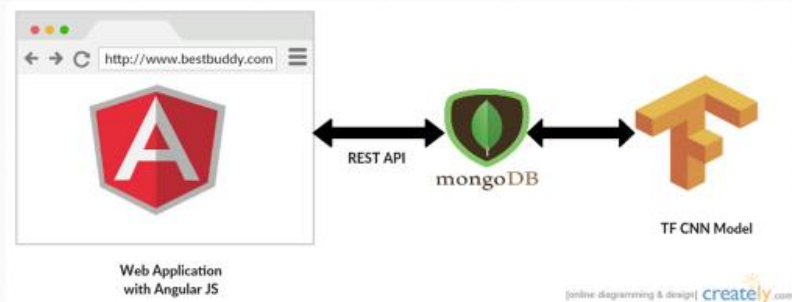
IX. Presentation Slides



Problem Statement:

An understanding of the development of emotional knowledge can help us determine which mood other people are. Nowadays finding people that are like you in terms of emotional aspect is hard. This application can assist us detecting people that have the same emotions. We are doing this with analyzing twitter data.

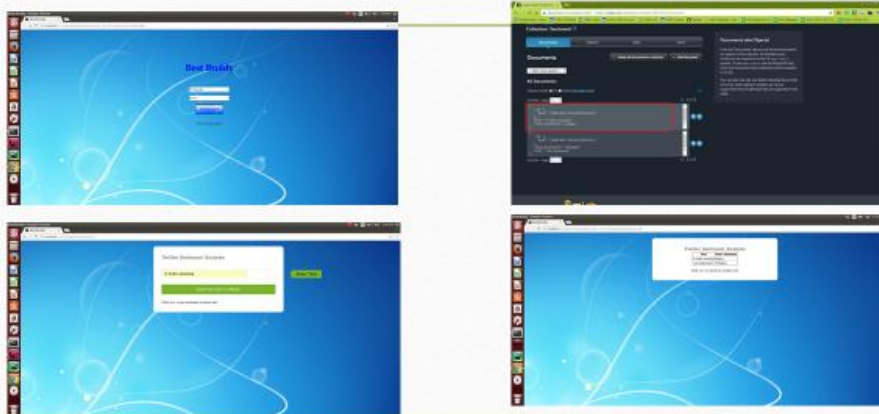
Architecture:



About Technologies, Data Set and Model

- Angular JS for web application development
- MongoDB to store the data
- Python and Tensor Flow for building the Deep Learning Model
- Trained the model with Twitter Data having two categories - Happy and Un happy
- Training Data – 90% , Testing Data – 10% (cross validation)
- Accuracy – 73. 0769
- Implemented the CNN deep learning model

Implementation



Credits

This work was done in partial fulfillment of the requirements of CS5551:
Advanced Software Engineering, CSEE Department, University of Missouri –
Kansas City (Spring 2017). Instructor: Dr. Yugyung Lee, TAs: Arunit Gupta,
Marmik Patel, Ram Gopal Mangena, Sidrah Junaid

Thank You!

X. GitHub URL

<https://github.com/VIJAYAYERUVA/BestBuddy>

XI. YouTube Project Video URL

<https://youtu.be/0yXDtgZ24Qs>

XII. References

<https://docs.google.com/spreadsheets/d/1AQ5K6UB367-0U7MKoRJzoUh2KAxbwU8eqLids-JxlmU/edit?ts=587ee37d#gid=1193902958>