

# **Project Installation Documentation**

## **for Independent Study**

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### **1. Technologies Used in the Project**

- a) Node.js (need to be installed first)
- b) Express (included in the project)
- c) MongoDB (included in the project)
- d) Angular.js (included in the project)

### **2. Installation Steps**

#### **a) For Mac OS:**

- i. Run and open “terminal”;
- ii. Input command : “brew update”; (if no brew on your computer)
- iii. Input command : “brew upgrade node”;
- iv. Now we can run the application. First we should start the database service. Input command: “mongod --dbpath (+database path, folder is in the project root, called node\_modules)”;
- v. Run and open a second “terminal” window, and jump to project root, input command “npm start”;
- vi. Run any browser and go to “localhost:3000”.

#### **b) For Linux:**

- i. Run and open “terminal”;
- ii. Input command: “sudo apt-get install npm”;
- iii. Input command: “sudo ln -s /usr/bin/nodejs /usr/bin/node”;
- iv. Now we can run the application. First we should start the database service. Input command: “mongod --dbpath (+database path, folder is in the project root, called node\_modules)”;
- v. Run and open a second “terminal” window, and jump to project root, input command “npm start”;

vi. Run any browser and go to "localhost:3000".

c) For Windows:

- i. Prerequisites: a command-line tool like the Windows Command Prompt, PowerShell, Cygwin, or the Git shell (which is installed along with Github for Windows);
- ii. Download the Windows installer from the Nodes.js® web site;
- iii. Run the installer (the .msi file you downloaded in the previous step);
- iv. Follow the prompts in the installer (Accept the license agreement, click the NEXT button a bunch of times and accept the default installation settings);
- v. Restart your computer;
- vi. Now we can run the application. First we should start the database service. Input command: "mongod --dbpath (+database path, folder is in the project root, called node\_modules)";
- vii. Run and open a second "terminal" window, and jump to project root, input command "npm start";
- viii. Run any browser and go to "localhost:3000".

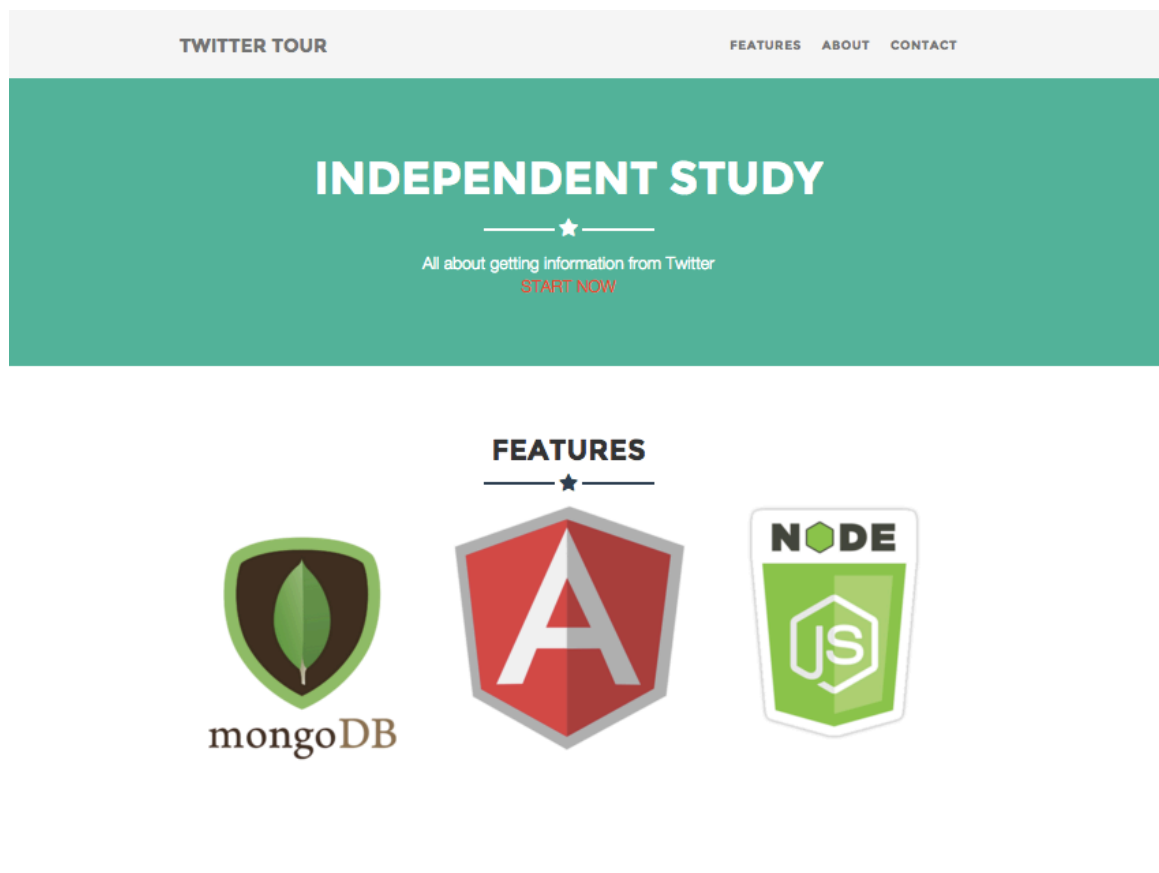
### 3. Project Descriptions

The purpose of the project is to practice popular web frameworks and technologies.

This web application could search specific keyword among all the tweets from users all over the world online. Then it will return all the tweets that contain the keyword. Because its is developed with web frameworks, you just need to modify a small part of the code to get the data you want from other web resources. For example, you can use the Facebook API instead to get the data you want from Facebook.

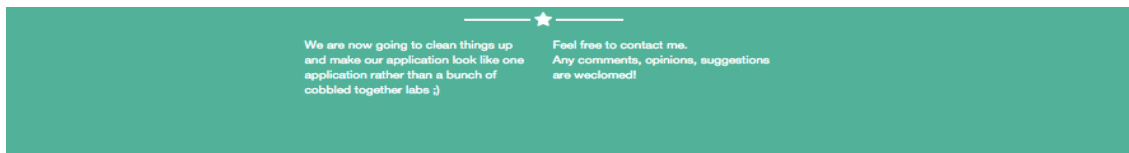
Above all, this is a Visualization Web Application that can get data from different kinds of web resources. It is really easy to update and improve it to implement more functions.

This web application has two web pages:



The first web pages is greeting page. It contains basic introduction of the

technologies I learnt and used. Also, an email feedback function is embedded in this page, which is implemented by PHP.



**CONTACT ME**  
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Name

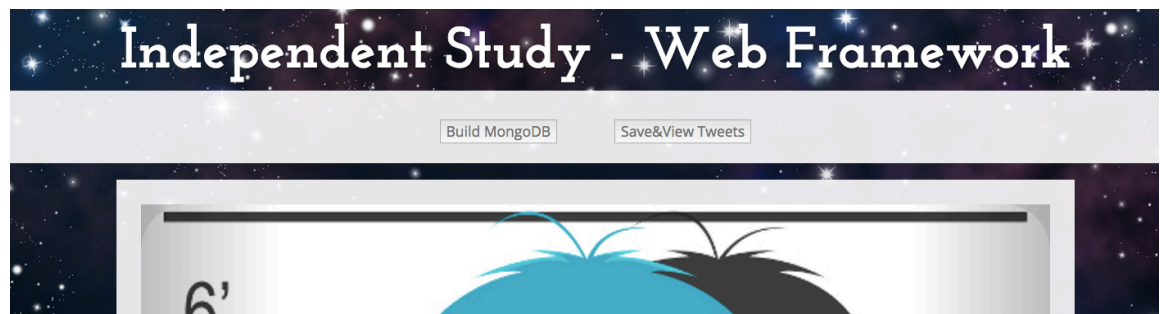
Email Address

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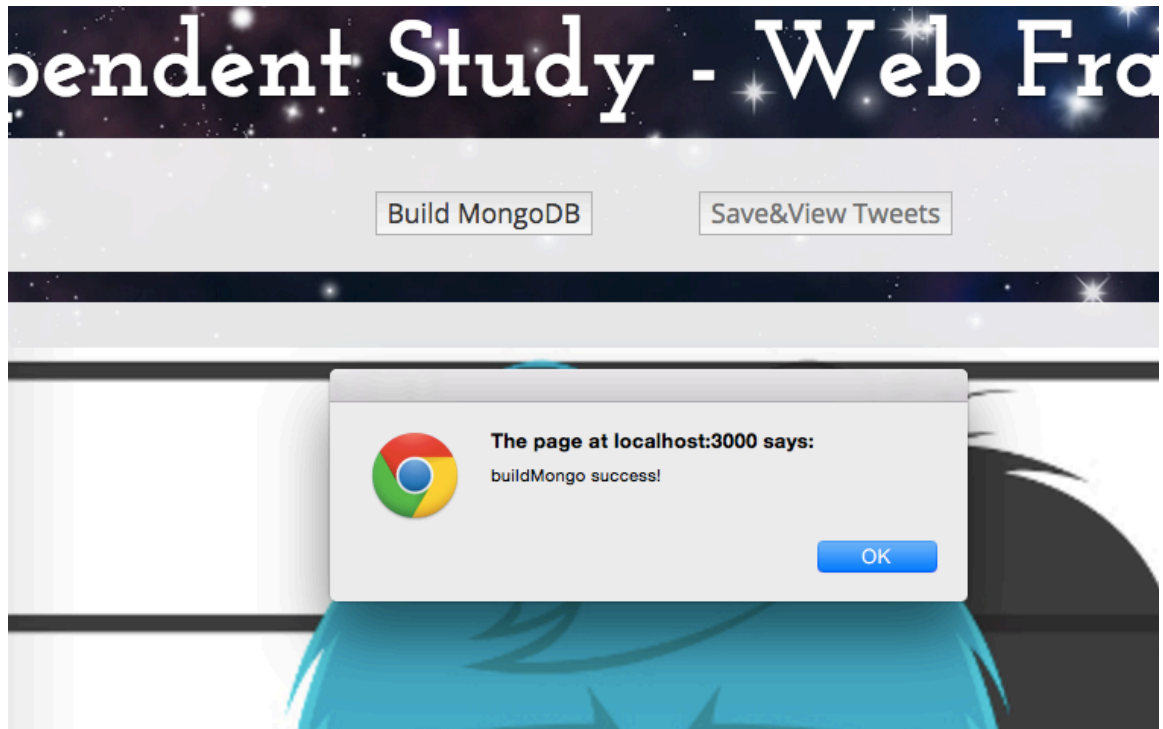
Message



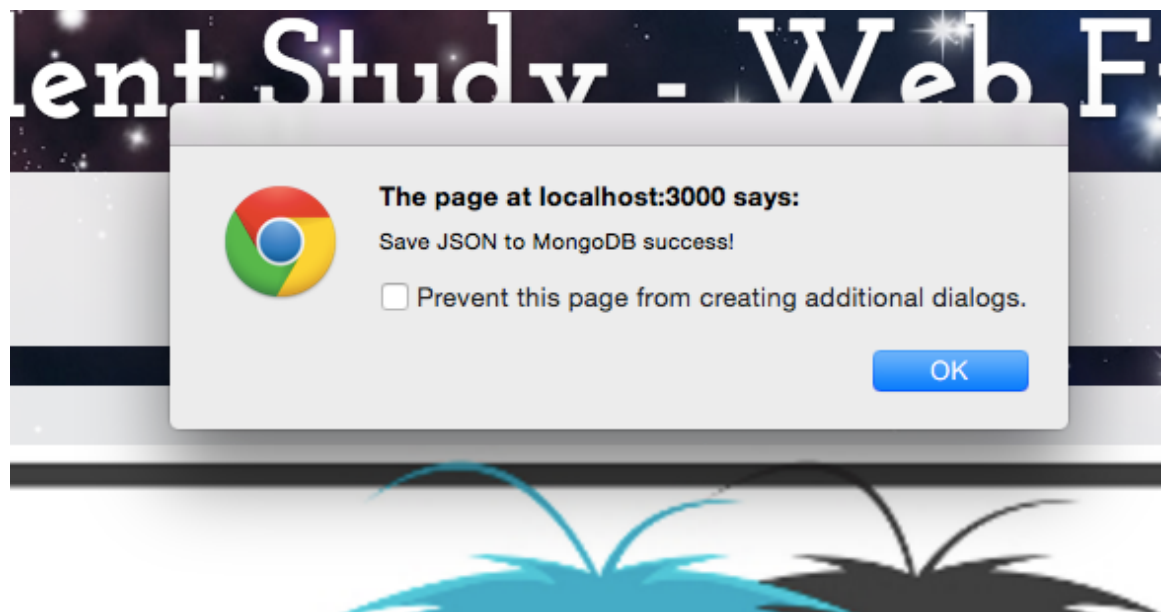
After you click the “START NOW” button, you would jump to the second page:



First, we should build a database to store the json file that contains the result we retrieve from Twitter API. If the database exists, we will just add new records to the existing database. Now we click “Build Mongo DB” button and you will see this notification from our browser:



After we successfully build the database, we can start get the data from twitter. Click the "Save&Review Tweets" now:



Now you could find the results that are updating lively at the bottom of the page:



@mjbiren @Hasbro @Disney They work on the toys months before the movie is out, but after the Avengers jet mess, they should know better.

<https://t.co/rxOf88zlcH>... <https://t.co/J6REUS9X4o> #avengers #ageofultron | <https://t.co/Xfly4Comsb>  
<https://t.co/Z8SVmjtICA>

RT @jamieFord: Avengers set - no Black Widow Guardians set - no Gamora Star Wars - no Rey. She's THE MAIN CHARACTER. #WheresRey <https://t.co/...>

<https://t.co/rxOf88zlcH>... <https://t.co/tzZQXB6Ajj> #avengers #ageofultron | <https://t.co/Xfly4Comsb>  
<https://t.co/gNSX3VmR4d>

RT @rac2750: Some were blaming the Marvel ones on Ike Perlmutter, who has nothing to do with Lucasfilm. So nope, it's Hasbro! <https://t.co/...>

#WheresRey

#avengers

#ageofultron

#WheresRey

#WheresRey

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