

CmpE 352 – Fundamentals of Software Engineering
HW 8: Implementation with Versioning – Practice with API

Due Date: 12 April 2018 – 23:55

This assignment consists of studying the **Twitter API**. In this assignment, you will use your API background to setup a practice team application. You will gain experience with critical code development practices using your GitHub repository.

You may decide the goal and requirements of the functional behavior of your “practice application” (the one you are developing for this assignment, which may or may not be related to your course project). Although you are going to develop this application as a group, each member of the team should contribute to this assignment and grading will be done individually. However, you must satisfy the following constraints:

- 1) Create a folder in your repository for your practice application.
- 2) Each member of the team must contribute (create) to the code base.
- 3) Each team member must create pull requests and request for code review.
- 4) Each member must “review” code. In other words, code pull should be preceded by code review.
- 5) You must use the API to fetch and process some content. (GET)
- 6) You must create content by using the API. (POST)
- 7) Create a RESTful API for your application by exploiting the Twitter API and processing the data to provide customized services.
- 8) You should provide a frontend to interact with the end-user.
- 9) Test your API using a tool like Postman, HTTPGet.
- 10) You need to create an Amazon AWS EC2 instance, and deploy your application to your server. Link to your application’s main page should be available on your GitHub wiki page.

Useful Links:

- 1) Twitter API for development: <https://developer.twitter.com/>
- 2) Review: <https://github.com/blog/2123-more-code-review-tools>,
<https://help.github.com/articles/about-pull-request-reviews/>
- 3) Developing API: <https://apiblueprint.org>, <http://swagger.io>, <http://raml.org/>
- 4) Testing API: <https://www.getpostman.com>,
<http://alternativeto.net/software/httprequester>, RESTClient