

BoostUp Programming Assignment - Backend

Version v2.0

- Language : Python (3.4+)
- Web Framework - Flask or Django
- Web-server - OK to use embedded web server. No need for uwsgi or any other WSGI server integration.
- Database: Ideally MongoDB. MySQL or PostgreSQL is also OK. Use of ORM is mandatory.

Problem Statement

1. The goal of this assignment is to build a simple integration for Hubspot APIs.
2. Hubspot APIs are documented at <https://developers.hubspot.com/docs/overview>.
3. There are four parts to this assignment.
 - a. Set up a Flask or Django project.
 - b. MongoDB schema modeling
 - i. Model the mongodb collection needed to store user data and oauth tokens.
 - ii. Model the mongodb collection needed to store [Hubspot Deal](#) data.
 1. You only need to store the following Deal properties
 - a. Deal id
 - b. Deal name
 - c. Deal stage
 - d. Close Date
 - e. Amount
 - f. Deal Type
 - c. Build Hubspot OAuth integration
 - i. Build APIs that are able to complete the OAuth flow and persist the access token, refresh token and other info returned by Hubspot to mongo.
 - ii. Follow instructions at <https://developers.hubspot.com/docs/methods/oauth2/oauth2-overview>
 - d. Build Hubspot Deal API integration

- i. Use the access token obtained to download deal data and persist the data to mongo.
4. The deliverable at the end of this assignment is link to code on github or a ZIP file that contains the flask/django project.
 - a. Running the flask project should start a web-server that should provide APIs to complete the OAuth flow.
 - b. If you have it hosted somewhere, provide a link to that.
5. *Bonus - frontend to visualize the deals*
 - a. *Build a simple frontend table view that shows the data downloaded from Hubspot.*

Criteria for Evaluation

1. Correctness - does the code do what it is supposed to do ?
2. Code aesthetics - code structure, cleanliness of code, documentation, ease of understanding.
3. Appropriate error handling