Introduction

You'll work in pairs (i.e. group of **two**) to complete this project assignment. Pay attention to the submission deadline, deliverables and how your project will be assessed.

Submission Deadline

December 4 2017 (Monday) 09:00 (T01/T02), 11:00 (T03)

Project Deliverables

- 1. An Express server that provides basic CRUD services for the restaurants collection. The server <u>must</u> be running on IBM Cloud (Bluemix) or Heroku.
- 2. Full source code uploaded to GitHub.com
- 3. Demo on December 4, 2017

Functional Requirements

- 1. Create user accounts
 - Each user account has a userid and password.
 - Upon successful login, userid must be stored in cookie session
- 2. Create new restaurant documents
 - Restaurant documents may contain the following attributes:
 - i. restaurant id
 - ii. name
 - iii. borough
 - iv. cuisine
 - v. photo
 - vi. photo mimetype
 - vii. address
 - 1. street
 - 2. building
 - 3. zipcode
 - 4. coord
 - viii. grades
 - 1. user
 - 2. score
 - ix. owner
 - name and owner are mandatory; other attributes are optional
- 3. Update restaurant documents
 - A document can **only** be updated by its owner (i.e. the user who created the document)
- 4. Rate restaurant. A restaurant can only be rated **once** by a user.
 - score > 0 and score <= 10
- 5. Display restaurant documents
 - Show photo *if* it's available
 - Show a link to Google Map if coord is available
- 6. Delete restaurant documents
 - A document can **only** be deleted by its owner
- 7. Search / Filtering
 - by name, borough, cuisine, borough, etc.

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8. Provide the following RESTful services.

Request	Parameters	Response	Remarks
POST /api/restaurant/create	<pre>name: 'xxx', address: {</pre>	{ status: ok, id: zzz	Create new restaurant documents.
	street: 'yyy',	} _	_id refers to the ObjectID
	} 	OR	
		status: failed }	
GET /api/restaurant/read	/name/xxx /borough/yyy /cuisine/zzz	<pre>[{ restaurant doc₁}, { restaurant doc₂},] OR</pre>	Read restaurant documents with criteria: xxx - name of restaurant yyy - borough of restaurant zzz - cuisine served
		{}	

Non-Functional Requirements

- 1. Use EJS to render all UI
- 2. Use MongoDB driver (Mongoose is slow!)
- 3. Use npm package express-fileupload to upload photos

A Demo Server

A sample server can be found at http://projdemo.mybluemix.net

- Login as user demo (no password)
- This server does not contain all project features!!!
- This server is not bug-free!!!

Assessment Criteria

- 1. Marks will be deducted (up to 50%) for any of the conditions below:
 - a. Your server is not running in the 'cloud'
 - b. Incomplete source code on GitHub
- 2. You server is required to pass **five** test cases. Here's a *sample* test case.

Precondition:

- An empty restaurant collection

Steps:

- Login as demo
- Create a restaurant document with name = 'Starbucks'
- Submit GET /api/restaurant/read/name/Starbucks

Expected outcome:

- A JSON string containing the Starbucks document.