Project Overview for Data Wrangling with MongoDB - OpenStreetData - P2

The Project of Data Wrangling consists of solving the Lesson 6 programming exercises, then choosing any area of the world in [https://www.openstreetmap.org](https://www.google.com/url?q=https%3A%2F%2Fwww.openstreetmap.org&sa=D&sntz=1&usg=AFQjCNGwV_1ytXhGxPJcFa9SZNl1RvAymQ) and applying the same techniques to this data set. The data set should be at least 50MB of size. After that you should be able to fill in the project rubric.

The following documents will help you understand the logistics of the final project, including grading and submission. These documents are intended for students with a Udacity Coach who have enrolled in the [full course experience](https://www.google.com/url?q=https%3A%2F%2Fwww.udacity.com%2Fsuccess&sa=D&sntz=1&usg=AFQjCNHM-Zx--lRbyXkKu51NBBvh3DydDg). If you are previewing the courseware, you are welcome to look at these documents as well (but understand that you will not submit your project).

1. [Project Summary](https://docs.google.com/document/d/1TpfNxDzUjhibq9Qb8cOQHtlvZUelft-W0fb7pCTTyYE/pub?token=AC4w5VgMhevUJEypm9XNbGExMw8_W5ir_g:1421032666158&skipDomain=false#h.4e11crbdd5ze) (You must fill out this document and include it when you submit your project).
2. [Project Rubric](https://docs.google.com/document/d/1TpfNxDzUjhibq9Qb8cOQHtlvZUelft-W0fb7pCTTyYE/pub?token=AC4w5VgMhevUJEypm9XNbGExMw8_W5ir_g:1421032666158&skipDomain=false#h.6t25ft7ati5j) (This is the rubric that a Udacity Project Evaluator will use when he/she is evaluating your project).
3. [Sample Final Project](https://docs.google.com/document/d/1F0Vs14oNEs2idFJR3C_OPxwS6L0HPliOii-QpbmrMo4/pub)

**Project Summary**

What is your name?

Gundega Dekena

What E-mail address do you use to sign in to Udacity?

[example@example.com](mailto:example@example.com)

What area of the world you used for your project? Post a link to the map position and write a short description. Note that the osm file of the map should be at least 50MB.

URL: [https://www.openstreetmap.org/export#map=14/41.97316/-87.69074](https://www.google.com/url?q=https%3A%2F%2Fwww.openstreetmap.org%2Fexport%23map%3D14%2F41.97316%2F-87.69074&sa=D&sntz=1&usg=AFQjCNGWL16ZqadEAB5N1h8xIFnD9dDSow)

I chose this particular place because it is my neighbourhood, I know it well and would like its map to be improved in quality!

Is there a list  of  Web sites, books, forums, blog posts, github repositories etc that you referred to or used  in this  submission (Add N/A if you did not use  such resources)?

Use this place to list the citations.

Please carefully read the following statement and include it in your email:

*“I hereby confirm that this submission is my work. I have cited above the origins of****any****parts of the submission that were taken from Websites, books, forums, blog posts, github repositories, etc. By including this in my email, I understand that I will be expected to explain my work in a video call with a Udacity coach before I can receive my verified certificate.”*

Is there any other important information that you would want your project evaluator to know?

Use this space to communicate with your project evaluator. Is there anything you would like to communicate? Feedback or suggestions?

**The Rubric**

**Overview**

This rubric is here to help you understand the expectations for the project that you create. It is the same rubric that the person evaluating your project will use. We will refer to this person as the “project evaluator” in this document. We recommend you look at the rubric **before you begin working** on your project **and again before you decide to submit it**.

**How to Use: before you begin**

1. Look at the bold headings under the criteria column to understand what the project evaluator will be looking for.
2. Go through each criteria item in more detail.
3. Familiarize yourself with what is required for your project to “meet expectations”. In order to gain a certificate, you need to "meet expectations", however, to gain most benefit/learn most from the experience, we encourage you to continue working on the project and posting your results/code on GitHub, personal website, OpenStreetMap.org etc.

**How to Use: before you submit**

1. Once your project is built, go through each criteria item and do your best to honestly evaluate where you think your project falls.
2. If you think your project “does not meet expectations” for **any**criteria item, then you should make some changes to your project.
3. Once you’re confident that your project “meets expectations” go ahead and follow the [project submission instructions](https://docs.google.com/document/d/1TpfNxDzUjhibq9Qb8cOQHtlvZUelft-W0fb7pCTTyYE/pub?token=AC4w5VgMhevUJEypm9XNbGExMw8_W5ir_g:1421032666158&skipDomain=false#h.9jd4cnblf2j9) to submit!

**How Grading Works**

1. Your project evaluator will use this rubric to evaluate your project.
2. Your grade will simply be “pass” or “doesn’t pass.”
3. You earn a “pass” by not having **any** criteria items in the “does not meet expectations” column.
4. If any criteria item “does not meet expectations,” you will not pass. You will be able to make changes and re-submit.

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| --- | --- | --- |
| **Criteria** | **Does not meet expectation** | **Meets expectations** |
| **Code Functionality**  All Lesson 6 problems are solved correctly. | Not all required Lesson 6 questions are solved with the submitted code. | All required Lesson 6 questions are correctly solved with the submitted code. |
| **Code Readability**  Code is well structured  Code is commented as necessary. | Code does not follow an intuitive, easy-to-follow logical structure.  Code that is not intuitively readable is not well-documented with comments. | Code follows an intuitive, easy-to-follow logical structure.  Code that is not intuitively readable is well-documented with comments. |
| **Problems encountered in your map**  Student response describes the challenges encountered while auditing, fixing and processing the dataset for the area of their choice | Student response does not show understanding of potential and actual problems with the map data | Student response shows understanding of the process of auditing, and ways to correct or standardize the data, including dealing with problems specific to the location, eg related to language or traditional ways of formatting |
| **Overview of the data**  Student provides a statistical overview about their chosen dataset, like:   * size of the file * number of unique users * number of nodes and ways * number of chosen type of nodes, like cafes, shops etc | Student response does not provide an overview of a dataset, or the dataset is smaller than 50 MB.  Student response does not includes the MongoDB queries used to obtain the statistics. | Student response provides the statistics about their chosen map area.  Student response also includes the MongoDB queries used to obtain the statistics. |
| **Other ideas about the datasets**  Student is able to analyze the dataset and recognize opportunities for using it in other projects | Student response does not show ways to process and analyze provided datasets other than the ways that were already covered. | Student proposes one or more additional ways of improving and analyzing the data and gives thoughtful discussion about the benefits and anticipated problems in implementing the improvement. |
| **Thoroughness and Succinctness of Submission**  Student submission is long enough to thoroughly answer the questions asked without giving unnecessary detail. |  | *A good general guideline is that your question responses should take about 3-6 pages.* |