Project Plan Submission Form

1 message

Google Forms <forms-receipts-noreply@google.com>   Sun, Jun 29, 2025 at 2:26 PM
To: djsamuelson01@gmail.com

Thanks for filling out Project Plan Submission Form

Here's what was received.

Project Plan Submission Form

This form is for submitting your Project Plan for your capstone project for Code Louisville or Code Kentucky. Please note: This is NOT the form used to submit your final capstone project. The final capstone project submission form will be posted in Google Classroom at a later date.

This form is Due 11:59 PM EST Sunday 6/29/25.

Email *

djsamuelson01@gmail.com

Your Name (first and last) *

David Samuelson

GitHub Repository URL:

Must be set as PUBLIC. *

Pathway *

- ◉ Data Analysis
- ○ Web Development

Capstone Project Proposal

Project Title *

male fertility data analysis

Abstract:

Provide a brief overview of your project, highlighting its purpose, scope, and objectives.
*

this data analysis project will integrate population-level demographic male fertility data to learn data analytic tech approaches by attempting to identify conditions associated with fertility issues. objectives are to 1. curate data from different sources, 2. explore and clean data, 3. identify and utilize logical connections between datasets, 4. visualize data for analysis.

Problem Statement:

Describe the problem your project aims to address or the opportunity it seeks to leverage.
*

Personally this project will provide me an opportunity to apply tech skills I have learned in the Code:You Data Analysis Course. Datawise this project addresses a problem that most cases of male infertility are idiopathic (unknown causes).

Goals and Objectives:

Goal 1: State your primary goal for the project.
Goal 2: State any additional goals or objectives.
 *

Goal 1: practice and strengthen data analysis tech skills.
Goal 2: identify sources for human fertility associated data
Goal 3: investigate male fertility data to determine associated demographics and potential biological indicators associated male infertility

Features:

Outline the main features and functionalities of your project as referenced in your Project Requirements document. Break them down into core features and stretch goals.
 *

Fyi, I am using a doc named "Data Analysis Capstone Process Guidelines_January 2025 Cohort.docx" as a reference for requirements. This is because I was unable to find a doc named "Capstone Project Requirements".
dataset: at least 2 datasets have been identified that have more than 1000 rows and more than 10 columns.
ReadMe.md file will contain required info including a data dictionary, summary, and sources
project objectives: stated in this submission form
project plan: preliminary plan contained in this submission form
project development: use Jupyter Notebook and Github, maintain a ReadMe.md file and follow data handling requirements including using relative file paths

Technologies:

List the technologies, frameworks, and tools you plan to use for the development of your project.
 *

Python, Pandas, SQL, Tableau, VS Code, Jupyter Notebook, GitHub, Gitbash, Slack DMs for help/assistance

Architecture:

Provide an overview of the system architecture. Please include links to any mockups, diagrams or outline if applicable.
*

I will use publicly available population level and biological data; possibly stretching this to independently obtained data. These data will be in .csv or .xlsx files. Pandas will be used for EDA. SQL will be used for visualization. A stretch goal is to use Tableau to make a dashboard for visualization.

Timeline:

Outline the project timeline, including key milestones and deadlines.
*

curate datasets, EDA, data cleaning, analysis, visualization, presentation, write-up

Risks and Mitigation Strategies:

List potential risks or challenges that may arise during the project and strategies to mitigate them.
*

A challenge will be to identify a logical connection between datasets because there will not be a shared key in some datasets. I will educate myself to identify meaningful relationships between variables that can be used to join datasets.
Another challenge will be to overcome syntax and procedural errors that occur. Here I will use instructional materials and ask Code:You instructors for assistance as necessary.

Test/Evaluation Plan:

Describe how you will evaluate the success of your project. This may include testing methods, user feedback, or performance metrics.
*

First and foremost the results must make logical and biological sense. This is knowledge that I will be able to provide. To test the tech and analytical methods, I will ask peers and instructors

for feedback.