# Project 3 Requirements

Note: items starting with "MUST" are required. Items starting with "may" are suggestions which are not required.

### Proposal

\* MUST submit a one-page proposal before starting

### Core App

\* MUST use HTML

\* MUST use Flask or FastAPI

\* MUST use a scikit-learn model

\* May use a database - not required

\* May use R to select models, but final models MUST be in Python

### Routes

\* MUST have a home route that uses a Jinja template

\* MUST have a route that takes in user data and returns a prediction

\* May have routes that collect data from the user and send it to a database

\* May have a route that uses Plotly or D3 for visualization in a Jinja template

\* May have a route that accesses, filters, and serves data from the database as a JSON

\* May have a route that dynamically filters and displays data to the UI

### Testing

\* MUST use Postman with at least one request per route

### Deployment

\* MUST be deployed (Heroku, GCP, etc...)

\* MUST use Pipenv

### Repo

\* The repo MUST have a properly formatted README.md

\* Code MUST be formatted with Black and prettier.js where appropriate

\* MUST have at least 5 Github Issues

### Presentation

\* Prepare a seven-minute presentation (Possibly adjusted depending on number of groups and size of each group)

### Individual

\* Every member MUST make at least 5 commits that are eventually merged to master

\* Every member MUST write code that solves at least one meaningful Github Issue

### Recommended Role Assignment (may vary)

\* Project Manager

\* Lead Developer

\* Frontend Developer

\* Backend Developer