**Section 1. Web App Architecture 50pts**

1. where your data is stored: cloud server (e.g. firebase), stand-along (e.g. SQlight)   - 5pts

We are using a SQlight database so we are able to use this stand-along with the application deployment.

1. what languages will be used to build back-end: python, R, javascript, java etc -5pts

The backend will be python. We are creating a Django site. We may use javascript for some front end filtering.

1. how you will be accessing the database: what connections and how secure (e.g. you have admin privileges and users cannot modify stored data etc  - 5pts

Django will allow us to connect to the database with its built in framework. {research how Django does this}

1. what will you use to create a front-end layout (HTML, CSS, js). Consider using Bootstrap (templates for design and layout) - [https://getbootstrap.com/Links to an external site.](https://getbootstrap.com/)  - 5pts

We will be using Bootstrap. HTML pages in Django allow us to imbed python code along with the ability to extend Bootstrap front end CSS. This will give us access to things like crispy forms and other Bootstrap built in functionality that will make front end development easier.

1. where your application is deployed: shiny server, firebase, heroku, pythoneverywhere ...  - 5pts
   1. if only locally, please add a statement about why do not plan / or are unable to deploy

pythoneverwhere? We get one free project, and this allows us to deploy Django sites.

1. how you will provide interactivity for your app. Note - users should be able to click, select, view etc - 5pts

We are creating an interactive chart. This app will allow a user to view the actual load data for an user input timeframe, then allow for the user to add various forms of energy generation to see the generation profile make up of that given source. We will have a drop down button to change from fossil fuels to wind, solar, hydro, etc. This data will use the user time input as well to change the chart.

1. draw a schema with the web app architecture (see an example) - you can use ppt , draw io, and other tools to sketch - 20pts [add a screenshot to your word document]

#### **Section 2. Web App Layout 40pts**

* What is the initial layout (when a user sees your app first)?
* Where is the menu panel?
* How many pages do you need? Or will you be using Tabs?
* What is the color schema?
* What each page or Tab will display?
* What functionalities will be available and how users will access them (e.g. search/query box/drop menu ...)

#### **Section 3. Individual and Team Work Assessment - 10pts**

* If you are working individually, please describe your work: [Are you satisfied with the task completion (scale 1-10),  time commitment, what could be done better
* Teams:
  + Describe your personal satisfaction with the task: [Are you satisfied with the task completion (scale 1-10), time commitment, and what could be done better?
    - We need to make sure everyone is participating and work is equally distributed. While the grade is initially provided for the entire team, we reserve the right to change a grade for any individual students who did not fully participate and fulfill their obligations/responsibilities in the project.
  + Let us know if someone is not responding/participating - we will reassign that person to an individual group