Planning Analysis Sheet

Design:

For the homepage, I used a table to present the data in a user-friendly manner. I also utilized Flask_wtform to create an add form page, making the form-building process quick and easy. Additionally, I incorporated Bootstrap to style the page. The Chart page is constructed using Charts.js to generate charts that display the data retrieved from the Flask_sqlalchemy database. The last two pages are created using Flask_wtform. Once the form is submitted, a table is displayed presenting all the calculations for annual salary, hourly salary, gross, and net income.

Development Process:

I began by creating the database instance and developing the logic for adding data. Then, I designed the add form page to facilitate the visualization of the addition process. Following this, I crafted the homepage to neatly display all the data in descending order. Ultimately, I created the charts page for a more interactive representation of the data. Lastly, I developed two salary calculator pages implementing the taxation system of Ireland.

Challenges Faced:

I encountered challenges while working with the database for the first time. However, through documentation and online research, I gradually grasped its functionality and successfully implemented it into the project.
I didn't make any changes to the javascript logic for the charts page because it is recommended in the official documentation. I believe this is the most correct and efficient way, especially when passing Python data. This approach helps to avoid potential application crashes.

Render Deployment:

To deploy on Render, I needed to .gitignore venv and pychace, as well as pip install gunicorn. Additionally, I had to use pip freeze to capture all the dependencies in a requirements.txt file. Furthermore, if environment variables are defined in the application, they needed to be added to the deployment page before initiating the build in order to grant Render access to all the application's functionalities.

Link for Render deployed website

https://flask-expenses-tracker.onrender.com