**Design**

**Design Elements (Based on Requirements)**

- Input Files

* Message (Text)
* A txt file containing text.

- user interface for input.

- Output

* Spam or not
* Table containing all the text of file with spam or not as label.

**Project Structure –**

**DB – Contains database logic like connect etc.**

**Model – Contains deep learning model saved weights used to predict text.**

**Out- outputs the result and save as text file for future purpose in csv format.**

**Src – Contains all the business logic for code from text preprocessing, model training, run inference on new data.**

**Test- Contains all the logic for test the function, from unit test to integrated test.**

**UI- Contains all the business logic for the ui components from user input to user result display.**