**SRS:**

1. **Purpose of Project**

The Spam filter uses a deep learning algorithm to check a set of text or single text is spam or ham. It is commonly used in Email Services, review system or Chatbots and now a days in Social Media website to understand and group same thinking of people to a group or suggestion for connect.

1. **Tools and Technology**

* Python for developing the logic and components.
* TensorFlow for text preprocessing and prediction for spam and ham.
* Tkinter for ui purpose.

1. **Functional Requirements**

* The system allows users to check text or document of text.
* The System allows user to see output and automatically save output for future.

1. **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.

1. Classes and method

* Main.py
* Train.py
* Test.py

1. **Features**

* Add text or read a document fill with text.
* Accurate model with 98% accurate prediction on unseen data.
* Flexibility to train the model on new data from database directly.
* Showing in output of result in table form in clean ui.