***Thyroid Disease Detection System***

***Wireframe Documentation***

Homepage

The homepage of the Thyroid Disease Detection System is divided into two main sections:

1. **User Input Section**:
   * The first view will be a form or input section where the user uploads patient data in JSON or Excel format. This form will allow users to select the file type and provide basic instructions on the required data format.
   * An upload button enables users to choose their file, and a submit button sends the data to the backend for processing.
2. **Initial Information Section**:
   * This section will offer a brief overview of the application, explaining its purpose in detecting thyroid-related conditions and providing guidelines on using the system. A small pop-up or tooltip may appear for first-time users explaining the input requirements.

After submission, the system will process the input and display the prediction result on the homepage itself. A sample layout might include sections for the prediction outcome, confidence level, and a summary of the patient's input data to verify correctness.

**Results Page**

* The results page will display the thyroid condition prediction generated from the user-uploaded data.
* **Prediction Section**:
  + This area will show the diagnosis result, such as "Hyperthyroidism," "Hypothyroidism," or "Normal."
  + Alongside the prediction, the confidence level or probability score will be presented to indicate the model’s certainty.
* **Details Section**:
  + Additional information, such as the most influential features (e.g., TSH levels or T3 measurements), will be displayed to provide transparency in how the model reached its decision.
* **Navigation**:
  + A "Go Back" button will allow the user to return to the homepage for a new input, clearing any previously displayed data.

**About Page**

This page will offer information on the purpose and significance of the Thyroid Disease Detection System. Key points might include:

* A brief background on thyroid disorders.
* An explanation of the project’s goals, such as early diagnosis and easy accessibility for healthcare professionals.

This section will also outline the data privacy policies, describing how user data is handled and secured.

**Input Guidelines Page**

The Input Guidelines page will provide specific instructions and tips on preparing the data for upload:

* Details on required features like age, sex, TSH, and other relevant lab test indicators.
* Example JSON and Excel templates will be available for download, helping users format their data correctly.
* Instructions on what to do if data is missing for certain features, including links to external resources on thyroid health.

**Error and Feedback Page**

In cases where there is an error (e.g., incorrect data format, missing fields), the system will redirect to an Error page with a user-friendly message explaining the issue. This page will:

* Display error messages related to invalid file formats or missing fields.
* Offer guidance on how to correct these errors before re-uploading.
* Provide an option to contact support or leave feedback for additional assistance.

**Admin Dashboard (Optional)**

For project administrators and healthcare providers, an optional admin dashboard could include:

* **Overview of System Usage**: Analytics on the number of users, most common conditions detected, etc.
* **Data Logs**: Access to historical predictions (if consented by users), allowing healthcare professionals to monitor model performance over time.
* **Model Update Option**: A feature for updating the model with newer data or retraining periodically.