Streamlit UI Design & Userflow

The user interface of the **Automated Review Rating System** was designed with simplicity and focusing completely on its functionality. Since the system is intended for users who may not have technical expertise, the layout was made minimalistic and intuitive.

➢ **Minimalist Layout:**
The interface focuses on core functionality : entering a product review and viewing predicted ratings. Unnecessary visual clutter was avoided to maintain a clean, professional appearance.

➢ **Text Area for Review Input:**
A large text area was used to let users comfortably type or paste long reviews. It encourages detailed inputs without feeling restrictive.

➢ **Predict Button:**
A single, prominent "Predict" button is provided to trigger the prediction. This simple action flow ensures that even first-time users can operate the system easily.

➢ **Clear Output Display:**
The predicted ratings from both models (Model A and Model B) are displayed using highlighted boxes making the results easy to distinguish and visually appealing.

➢ **Error Handling and Validation:**
The UI includes input validation -> if the user clicks "Predict" without entering text, a warning message appears instead of producing an error.

User Flow

➢ **Start Page:**
When users open the application, they are greeted with a title and a brief description explaining the purpose of the system.

➢ **Input Phase:**
The user enters a product review into the provided text area

➢ **Action Phase:**
Upon clicking the **"Predict"** button, the system preprocesses the text, vectorizes it, and sends it through two different trained machine learning models.

➢ **Result Phase:**
The predicted ratings from both models are displayed on the same page, allowing the user to compare outputs instantly.

➢ **Repeat:**
Users can edit the text or input a new review and re-run the prediction multiple times without reloading the page.