## **Project Wireframe**

This wireframe focuses on the data processing and model training aspects of your project. It doesn't include the evaluation part (using accuracy\_score and classification\_report).

**Main Screen:**

* Title: Predictive Model for Customer Reviews (or similar)
* Sections:
  + **Data Loading:**
    - List of datasets to be loaded (orders, products, sellers, etc.)
    - Button to "Load Data"
  + **Data Preprocessing:**
    - Checkbox: "Remove missing values"
    - Section for data transformation (optional):
      * Text explaining the conversion of review\_score to binary (1 if >= 4, 0 otherwise)
      * (You can include this section or implement it directly in the code)
  + **Feature Engineering:**
    - List of features used (product\_id, seller\_id, price, freight\_value, product\_category\_name)
    - Checkbox: "Encode categorical variables" (for product\_category\_name)
  + **Model Training:**
    - Section for selecting the model (e.g., dropdown menu with options like RandomForestClassifier)
    - Button to "Train Model"
  + **Output:**
    - Text box displaying the training progress or success message

**Possible Interactions:**

* User clicks "Load Data" to read all the datasets.
* User selects options for data preprocessing (remove missing values).
* User selects features and chooses to encode categorical variables.
* User selects the model type.
* User clicks "Train Model" to initiate training.
* Output box displays training progress or success message.