**Phase-3:Project Design**

**Objective:**

* Create the architecture and user flow

**Key points:**

**1.System Architecture Diagram:**

[User (Web Browser)]

|

| Uploads Image

↓

[Frontend Webpage (HTML)]

|

| Sends image

↓

[Backend Server (Flask/Django)]

|

| Feeds image into

↓

[Trained ML Model]

|

| Prediction result

↓

[Backend Server]

|

| Sends result

↓

[Frontend Webpage]

|

| Displays:

↓

[♻️ Recyclable / Trash/Bio degradable]

**2.User Flow:**

🧑‍💻 1. User Opens Webpage

🖼️ 2. User Uploads Waste Image

📤 3. Image Sent to Backend

🧠 4. ML Model Processes Image

📩 5. Prediction Returned

🖥️ 6. Result Displayed on Webpage