# **M&E Sampling Portal**

**Flowchart Steps:**

1. **User Accesses Portal**:
   * User navigates to the data sampling form page.
2. **User Fills Form**:
   * Enters their name and email.
   * Selects a data file for upload (.csv, .xls, or .xlsx).
   * Inputs the sampling percentage (10-90%).
3. **Form Submission**:
   * User submits the form.
   * **Action**: Submit button sends the data to Django backend python script.
4. **Backend Request**:
   * JavaScript sends form data to backend endpoint /homepage/views.py via fetch.
5. **Backend Processes Data**:
   * If the format is incorrect, backend returns a **409 Error**:
     + **Action**: Display error message ("Please provide correct data format") in the message box, then deletes the file and reset form.
     + **Logging:** A log is generated to a file named logs.xlsx stored in the upload folder (/upload/logs.xlsx).
   * If the format is correct:
     + Samples data, prepares file for download, deletes the file and sends response from backend with the sampled data to frontend.
     + **Logging:** A log is generated to a file named logs.xlsx stored in the upload folder. (/upload/logs.xlsx)
6. **File Download and Success Message**:
   * If response is successful (HTTP 200):
     + **Action**: Triggers automatic download with original filename and displays success message ("Sampled data downloaded successfully!").
     + Form is reset automatically.
7. **Error Handling**:
   * If an unexpected error occurs:
     + Display error message ("An error occurred") and reset form.
     + **Logging:** A log is generated to a file named logs.xlsx stored in the upload folder. (/upload/logs.xlsx)

# **Flowchart Diagram**

User enter the Name, Email ID, select file and provide sampling percentage.

Sample the data based on given % then logs

Return 409 error then logs

Auto download sampled data and reset form

Display error message box and reset form

Is data in correct format?

Unexpected error

No

Yes