**RPA Project 1 (No-Code Version): Ethical Email Automation Bot using UIPath**

### **📂 Project Goal**

Automate Gmail-based ethical email replies using UIPath Studio (no-code/low-code platform) with ethical rules in place.

### **🚀 Workflow Overview**

1. **Login to Gmail** using UIPath Gmail/G Suite Activities
2. **Read Unread Emails** via "Get Mail Messages"
3. **Classify Emails** using "If" or "Switch" activities (based on Subject/Snippet)
4. **Apply Ethical Rules**:  
   * Skip senders from spammy domains
   * Limit replies to 1 per sender
   * Respond only to categories like "job", "inquiry"
5. **Send Templated Reply** using "Send SMTP Mail Message"
6. **Log Actions to Excel/JSON** using "Write Range" or "Append Line"

### **📄 Required Fields in Gmail Settings**

* Enable **IMAP**
* Generate **App Password** (for Gmail SMTP if 2FA is on)

### **🔧 UIPath Activities Used**

| **Step** | **Activity** | **Purpose** |
| --- | --- | --- |
| 1 | Gmail Application Scope | Authenticate Gmail |
| 2 | Get Mail Messages | Fetch unread messages |
| 3 | If / Switch | Categorize based on keywords |
| 4 | Regex Match / Contains | Ethical filters |
| 5 | Send SMTP Mail Message | Auto-reply |
| 6 | Append Line / Write Range Excel | Log actions |

### **📅 Output**

* Ethical reply sent to qualifying emails
* Reply log saved in Excel or JSON
* Spammy senders skipped with audit notes

### **📖 Templated Replies (UIPath Variable)**

job => "Thank you for your interest. We'll get back to you."

inquiry => "Thanks for your question. We'll respond shortly."

general => "Thanks for reaching out."

### **⚠️ Notes**

* Add retry + exception handling for all mail activities
* Maintain email count per sender using Dictionary or Excel log
* Review daily or weekly logs for audit trail compliance