



Infogenx

Internship Project

Global Call Automation System Using Python and Twilio

Done By : Hariprasath S.



Overview of the Flow

- **Initialization:**
 - Start the Flask server and load the call queue (from a Google Sheet or CSV).
- **Call Queue:**
 - Process each call in sequence with statuses: Not Called, Connected, Disconnected, Forwarded, Accepted.
- **Call Execution:**
 - Use Twilio to make calls.
 - Follow scripts and monitor responses via keypress (1 for Accept, 2 for Forward).
- **Log Updates:**
 - Update call details (status, response, timestamp) in Google Sheets using the API.
- **Monitoring:**
 - Real-time dashboard to track queue status, call logs, and metrics (e.g., total, accepted, disconnected calls)
- **Repeat:**
 - Process calls until the queue is empty.

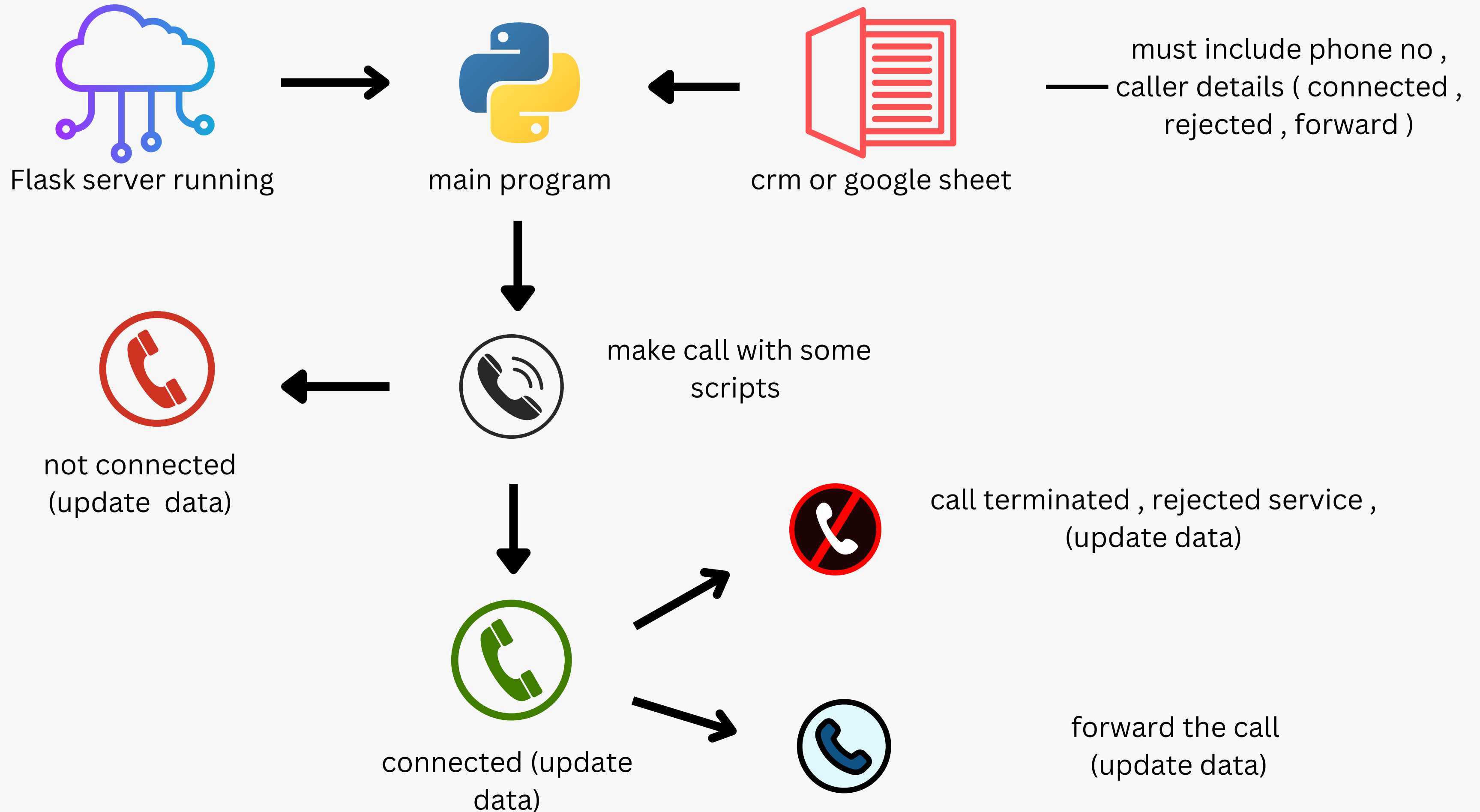
Technical Stack

- **Programming Language:**
 - Python (Core language for backend and logic)
- **API/Communication Service:**
 - Twilio API (For voice calls, SMS, and communication features)
 - OpenAI API (For AI-driven insights, message generation, or automation)
- **Development Environment**
 - Replit (Cloud-based IDE for coding, running, and deploying).
- **Frameworks/Libraries:**
 - Flask/Django (Optional, for creating a web interface or API endpoint)
 - Twilio Python SDK (For interacting with Twilio services)
 - Requests (For handling HTTP requests if needed)
 - Pandas (For data processing)

Technical Stack

- **Data Source:**
 - CSV / Google Sheets (For managing call queue or recipient list)
- **Monitoring and Logging:**
 - Twilio Console (For tracking call statuses)
 - Logging Library (Built-in Python logging for debugging and status tracking)
- **Authentication and Security:**
 - Twilio Credentials (Account SID and Auth Token for secure API access)
 - Environment Variables (Using libraries like python-dotenv to secure sensitive data)
- **Testing Tools:**
 - Postman (For testing Twilio API endpoints)

Flow chart





Thank you

