

Assignment

❖ Overview

This assignment outlines the implementation details and functionality of a Python application developed using Selenium for automating tasks related to filling Google Forms and sending confirmation emails.

❖ Project Description

The project involves automating the following tasks:

- **Filling Google Forms:** Automatically fills out predefined fields in a Google Form.
- **Capturing Screenshots:** Takes screenshots of the confirmation page after form submission.
- **Sending Emails:** Sends an email with attached screenshots and relevant documentation.

❖ Technologies Used

- **Python:** Programming language used for scripting.
- **Selenium:** Python library for web automation.
- **Flask:** Used for creating a web application to trigger the automation process.
- **SMTP:** Simple Mail Transfer Protocol for sending emails.
- **GitHub:** Version control and repository hosting.

❖ Implementation Details

Workflow

- **Google Form Filling:**
 - Uses Selenium to navigate to the Google Form URL.
 - Automatically fills out form fields based on predefined data.
- **Screenshot Capture:**
 - Captures a screenshot of the confirmation page post-form submission.
 - Saves the screenshot for reference and verification purposes.

- **Email Sending:**

- Composes an email with attachments (screenshots and documentation).
- Sends the email using SMTP, ensuring delivery to specified recipients.

❖ **Conclusion**

This assignment demonstrates the use of Python and Selenium for automating tasks involving Google Forms and email communication. By leveraging web automation and SMTP protocols, the application efficiently fills forms and sends confirmatory emails with necessary attachments.