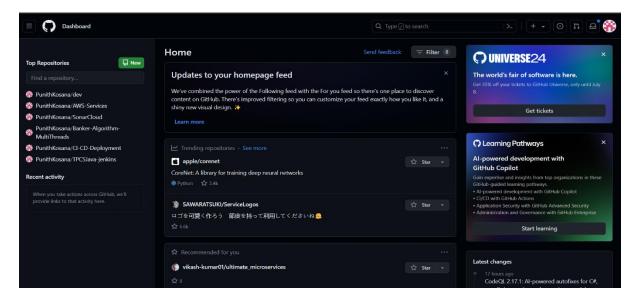
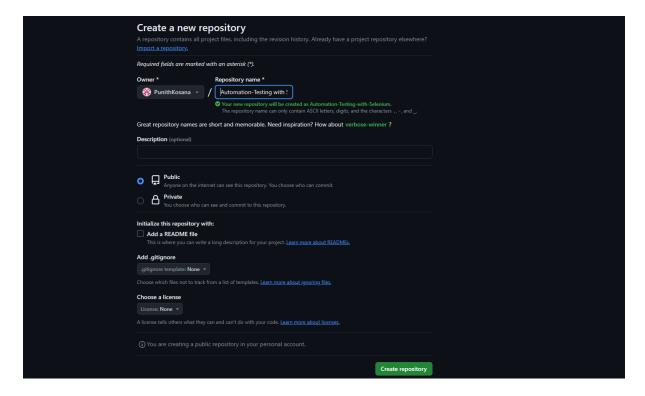
## Creating Github Actions Pipeline involving usage of Selenium-Python Automation Testing

Open github.com and login into it. Choose New to create new repository.



Name the repository and make it public. Choose Create Repository.

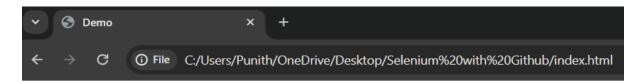


Install selenium.

```
C:\Users\Punith>pip install selenium
```

This is the website we are going to deploy with github actions.

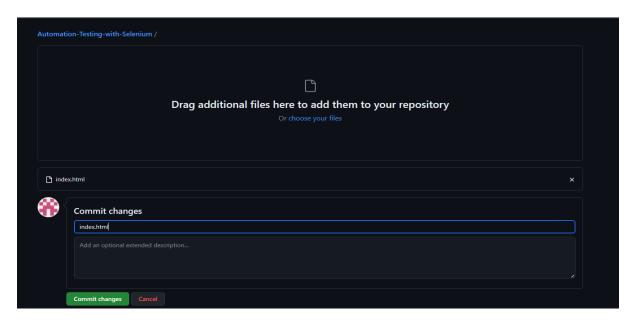
This is how website looks like.



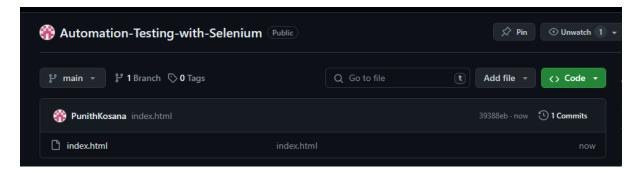
## Welcome to my website

Automation Testing with selenium

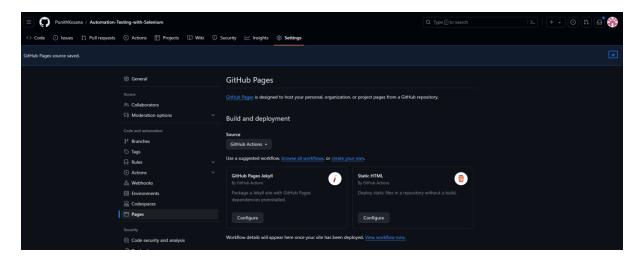
Add the file into repo and commit changes.



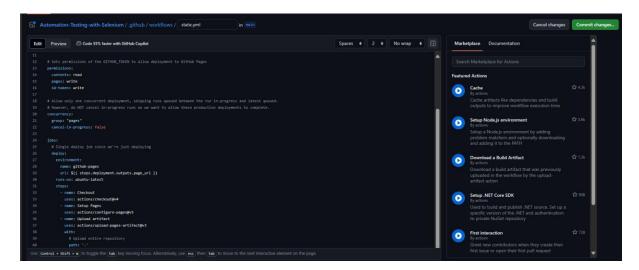
File has been successfully pushed into the repository.



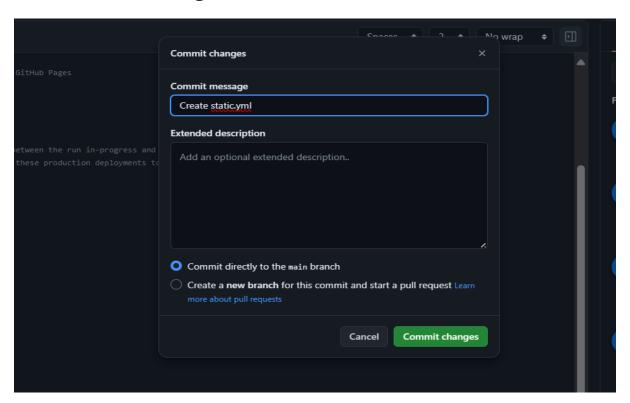
Go to Settings>Github Pages. Configure Static HTML. Make sure to choose the source as Github Actions.



This is the code used to deploy onto the github pages.



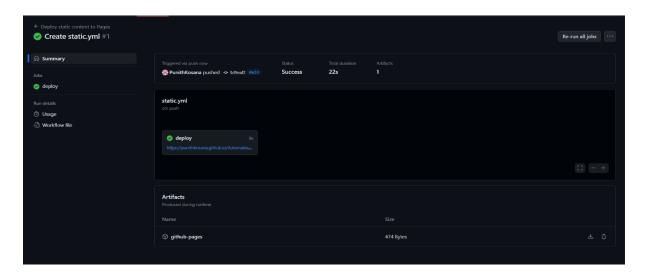
Commit the changes.



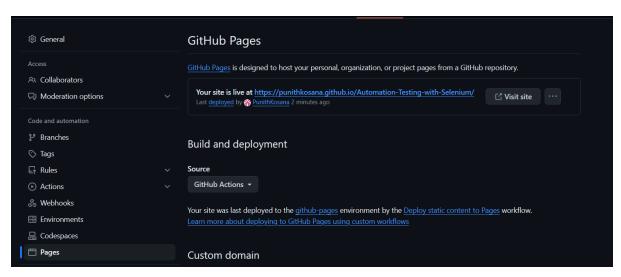
The github workflow has been created successfully.



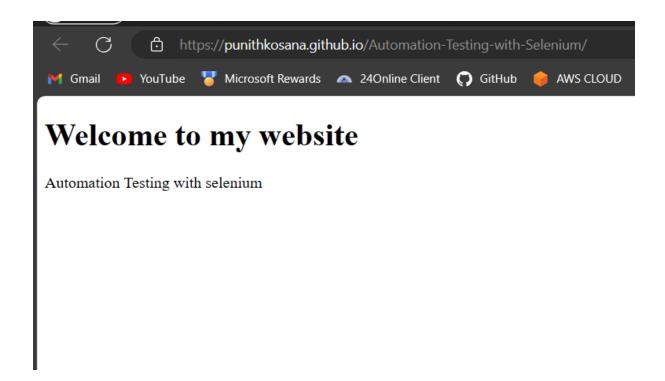
Choose static.yml and click view runs. The deployment has been successful.



Open Github Pages and visit the site.



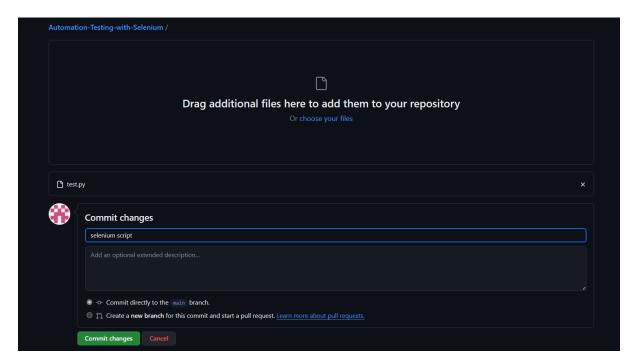
The website have been deployed.



This is the python-selenium script used to automate the process. Whenever the changes made in the repo, the scripts executes and the screenshot of the website will be pushed into the repository automatically.

```
test.py
 e test.py > ...
     from selenium import webdriver
      from selenium.webdriver.chrome.service import Service
      import time
       service = Service(executable_path='/usr/local/bin/chromedriver')
     options = webdriver.ChromeOptions()
  options.add_argument("--headless")
options.add_argument('--no-sandbox')
     driver = webdriver.Chrome(service=service, options=options)
      driver.get("https://punithkosana.github.io/Automation-Testing-with-Selenium/")
       time.sleep(5) # Adding a delay to see the result
      # Assert some condition to verify the result
assert "" in driver.title
 timestamp = time.strftime("%Y%m%d-%H%M%S")
       screenshot_file = f"screenshot_{timestamp}.png"
     driver.save_screenshot(screenshot_file)
       # Close the WebDriver
       driver.close()
```

Upload the python file and commit changes.

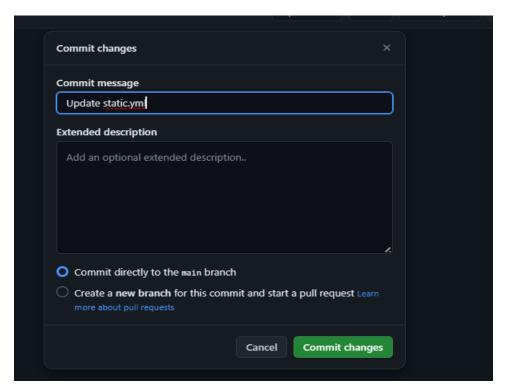


Add these steps that has to perform and test at the time of deployment in the static.yml file.

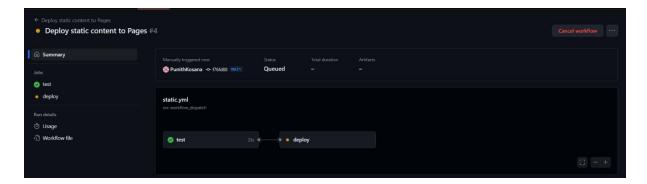
```
- name: Checkout Repository
  uses: actions/checkout@v2
- name: Set up Python
 uses: actions/setup-python@v2
   python-version: "3.12" # Version of Python to set up
- name: Install Chrome WebDriver
   LATEST=$(wget -q -0 - https://googlechromelabs.github.io/chrome-for-testing/LATEST_RELEASE_STABLE)
   wget https://storage.googleapis.com/chrome-for-testing-public/$LATEST/linux64/chromedriver-linux64.zip
   unzip chromedriver-linux64.zip
   cd chromedriver-linux64
    sudo mv chromedriver /usr/local/bin/
    sudo chmod +x /usr/local/bin/chromedriver
# Step to install Selenium library
- name: Install Selenium
  run: pip install selenium
# Step to execute Selenium tests
- name: Run Selenium tests
  run: python test.py
- name: Save screenshot to repository
```

```
- name: Install Selenium
   run: pip install selenium
  - name: Run Selenium tests
   run: python test.py
  - name: Save screenshot to repository
   if: ${{ success() }} # Condition to run only if tests succeed
     git config --global user.email "actions@github.com"
     git config --global user.name "GitHub Actions"
      git add screenshot_*.png
     git commit -m "Screenshot taken successfully"
needs: test
environment:
 name: github-pages
 url: ${{ steps.deployment.outputs.page_url }}
runs-on: ubuntu-latest
steps:
  - name: Checkout
   uses: actions/checkout@v4
 - name: Setup Pages
   uses: actions/configure-pages@v5
  - name: Upload artifact
   uses: actions/upload-pages-artifact@v3
  - name: Deploy to GitHub Pages
   id: deployment
   uses: actions/deploy-pages@v4
```

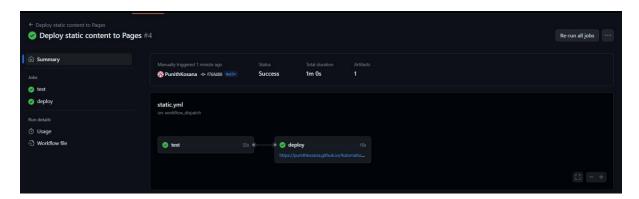
## Commit the changes.



The test has been executed successfully.



The deployment also done successfully.



The screenshot has been taken and pushed into the repository.

