<h1 style="text-align:center; color:red;">EXPERIMENT-10</h1>

AIM: Install and Explore Selenium for Automated Testing

Objective: To install Selenium and explore its environment for automating web application testing.

Software Requirements

- Python installed (https://www.python.org/downloads/)
- Selenium library installed
- Web browser (Chrome, Firefox, etc.)
- WebDriver for the browser (e.g., ChromeDriver)
- Code editor (VS Code or any)

Lab Procedure

1. Install Python

- Download and install Python.
- Verify installation:

python –version

2. Install Selenium Library

- Use pip to install Selenium:

pip install selenium

3. Download WebDriver

- Download ChromeDriver from
- (https://sites.google.com/chromium.org/driver/) or appropriate WebDriver for your browser.
- Place the WebDriver executable in your system PATH or project directory.

Open the 1st link.

Click on version selection and check your version in chrome by chrome://settings/help
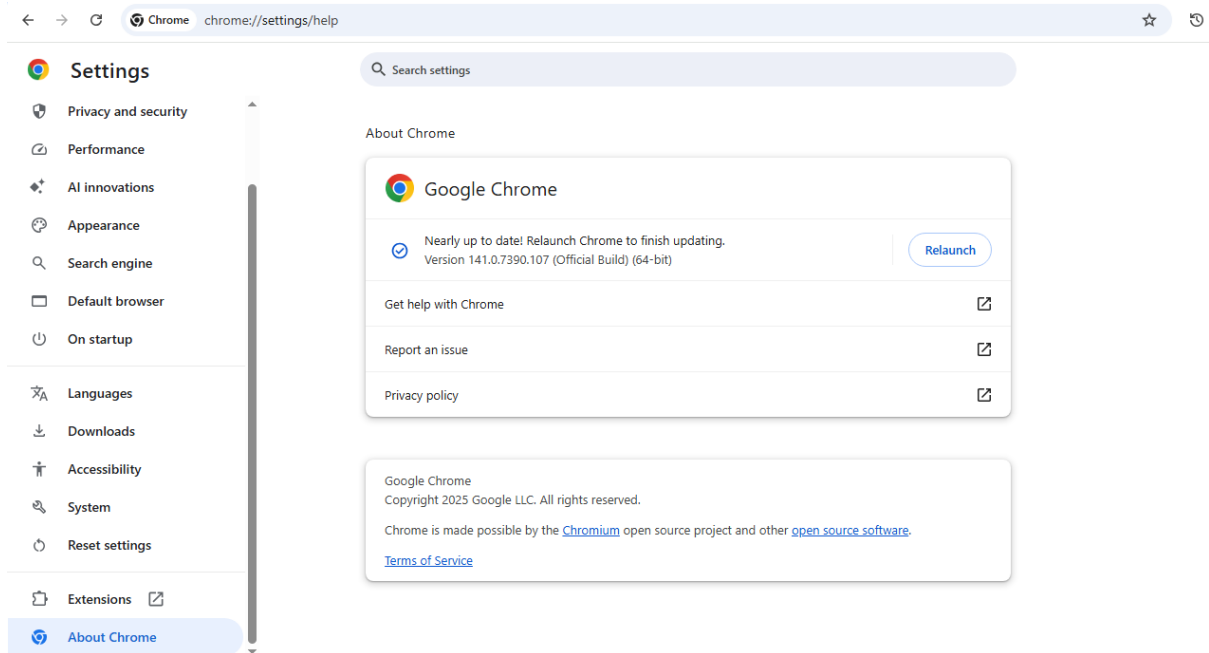
Click on **the Chrome for Testing (CfT) availability dashboard.**
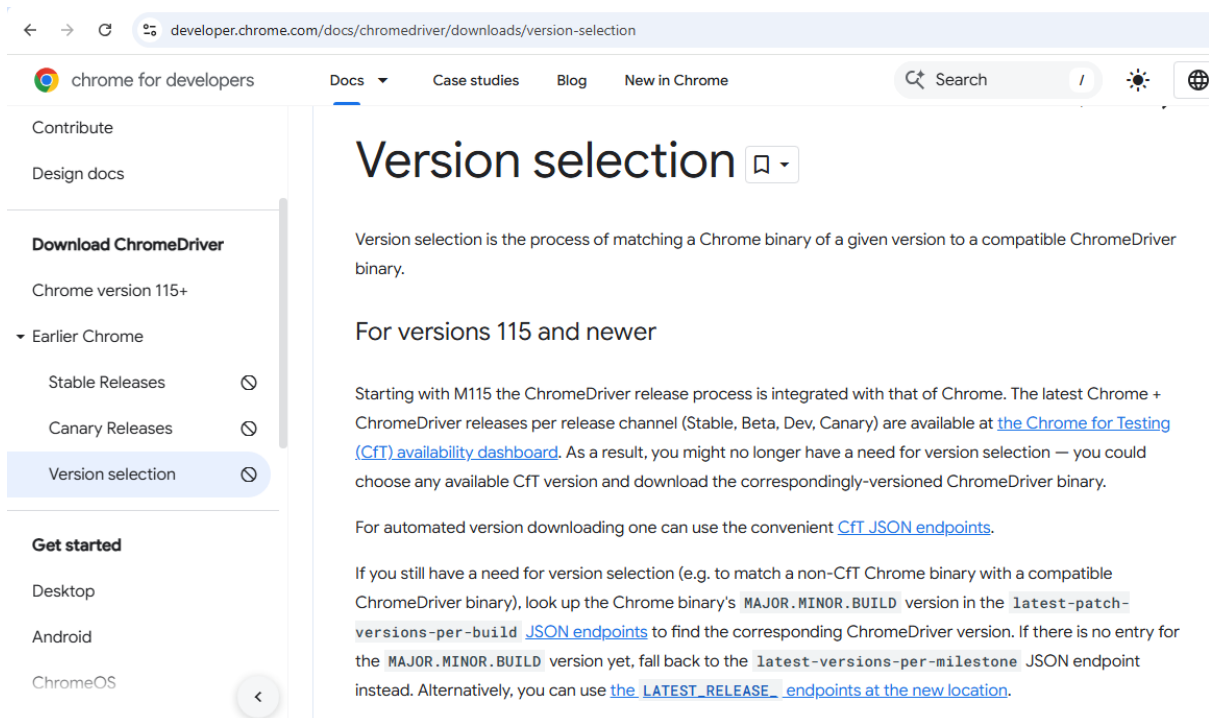
Click on **Stable**

Chrome for Testing availability 🧪

This page lists the latest available cross-platform Chrome for Testing versions and assets per Chrome release channel.

Consult our JSON API endpoints if you're looking to build automated scripts based on Chrome for Testing release data.

Last updated @ 2025-10-23T09:10:11.440Z

Channel	Version	Revision	Status
Stable	141.0.7390.122	r1509326	☑
Beta	142.0.7444.52	r1522585	☑
Dev	143.0.7475.7	r1530564	☑
Canary	143.0.7488.0	r1533544	☑

Binary	Platform	URL	HTTP status
chrome	linux64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/linux64/chrome-linux64.zip	200
chrome	mac-arm64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-arm64/chrome-mac-arm64.zip	200
chrome	mac-x64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-x64/chrome-mac-x64.zip	200
chrome	win32	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win32/chrome-win32.zip	200
chrome	win64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win64/chrome-win64.zip	200
chromedriver	linux64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/linux64/chromedriver-linux64.zip	200
chromedriver	mac-arm64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-arm64/chromedriver-mac-arm64.zip	200
chromedriver	mac-x64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-x64/chromedriver-mac-x64.zip	200
chromedriver	win32	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win32/chromedriver-win32.zip	200
chromedriver	win64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win64/chromedriver-win64.zip	200
chrome-headless-shell	linux64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/linux64/chrome-headless-shell-linux64.zip	200
chrome-headless-shell	mac-arm64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-arm64/chrome-headless-shell-mac-arm64.zip	200
chrome-headless-shell	mac-x64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/mac-x64/chrome-headless-shell-mac-x64.zip	200
chrome-headless-shell	win32	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win32/chrome-headless-shell-win32.zip	200
chrome-headless-shell	win64	https://storage.googleapis.com/chrome-for-testing-public/141.0.7390.122/win64/chrome-headless-shell-win64.zip	200

➢ Select according to you Operating System and Copy and paste chromedriver link in chrome it will download automatically.

➢ The file will be downloaded, extract the files and set the path of chromedriver.exe in system environment variables

- ➢ Verify chromeDriver installation
  chromeDriver –version

- ➢ Open a VS code and create a python file and Add the following code

```python
from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
import time

# Specify the correct path to your ChromeDriver
chrome_service = Service("C:\Program Files\chromedriver-
win64\chromedriver.exe")

# Set up the WebDriver for Chrome
driver = webdriver.Chrome(service=chrome_service)

try:
    # Step 1: Open Google in the browser
    driver.get("https://www.google.com")

    # Step 2: Locate the search box using the name attribute
    search_box = driver.find_element(By.NAME, "q")

    # Step 3: Enter the search term and press Enter
    search_box.send_keys("https://cmrcet.ac.in/")
    search_box.send_keys(Keys.RETURN)

    # Optional: Wait for a few seconds to see the search results
    time.sleep(20)

finally:
    # Step 4: Close the browser
    driver.quit()
```

Make sure to change the path of the driver in the code to avoid errors
- ➢ Run the code