



**Smart  
Internz**

## **FACEBOOK**

**program based experience learning program**

### **SRI VENKATESWARA COLLEGE OF ENGINEERING**



### **Project submitted by: -**

**TEAM LEADER:** BANDI SUPRIYA

**TEAM MEMBERS:**

CHENNUPALLE MADHAVI REDDY

VENNAPUSA PRASANNA

VENNAPUSA LOKESWARA REDDY

CHENNAMREDDY MALLIKARJUNAREDDY

# Facebook Automation Testing Project

## About Facebook:

Facebook is a **social networking site** that makes it easy for you to **connect and share** with family and friends online. Originally designed for college students, Facebook was created in 2004 by Mark Zuckerberg while he was enrolled at Harvard University. By 2006, **anyone** over the age of 13 with a valid email address could join Facebook. Today, Facebook is the world's largest social network, with **more than 1 billion users** worldwide.

- Facebook is an American social media platform founded on 4<sup>th</sup> February 2004.
- Facebook works all over the world headquartered at Menlo Park, California in the U.S.
- It was founded jointly by Mark Zuckerberg, Eduardo Saverin, Andrew McCollum, Dustin Moskovitz, and Chris Hughes.
- Mark Zuckerberg is still the CEO (Chief Executive Officer) of Facebook (in November 2019).
- Facebook was started by only Mark Zuckerberg and Eduardo Saverin with an investment of \$1,000 each.
- Facebook acquired the domain "fb.com" from American Farm Bureau Federation in November 2010.
- Facebook introduced a new design 'Facebook Beta' on 20<sup>th</sup> July 2008.
- Facebook provides every registered user a profile and news feed where he/she can access the latest news.
- Facebook purchased another social media platform 'Instagram' in 2012 for the US \$1 billion.
- The most preferably used messenger 'WhatsApp' was purchased by Facebook in 2014 for the US \$19 billion.

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## Introduction:

The Facebook project is a Katalon automation project that utilizes the Selenium framework for automating web interactions. This documentation provides an overview of the project, instructions for installation and configuration, details about the project structure, and examples of test cases.

## Project Overview:

The Facebook project aims to automate various tasks on the Calendly website. It leverages Katalon studio, a powerful web automation tool, to interact with web elements and perform actions such as clicking buttons, filling forms, and extracting data.

## Milestone 1:

### Getting Started

Explain the prerequisites and setup required to run the project.

## Activity 1: -

### Prerequisites

Before getting started with the Facebook project, ensure you have the following prerequisites:

List the software and tools that need to be installed before running the project, such as:

- Katalon Studio (Latest Version)
- Any other dependencies

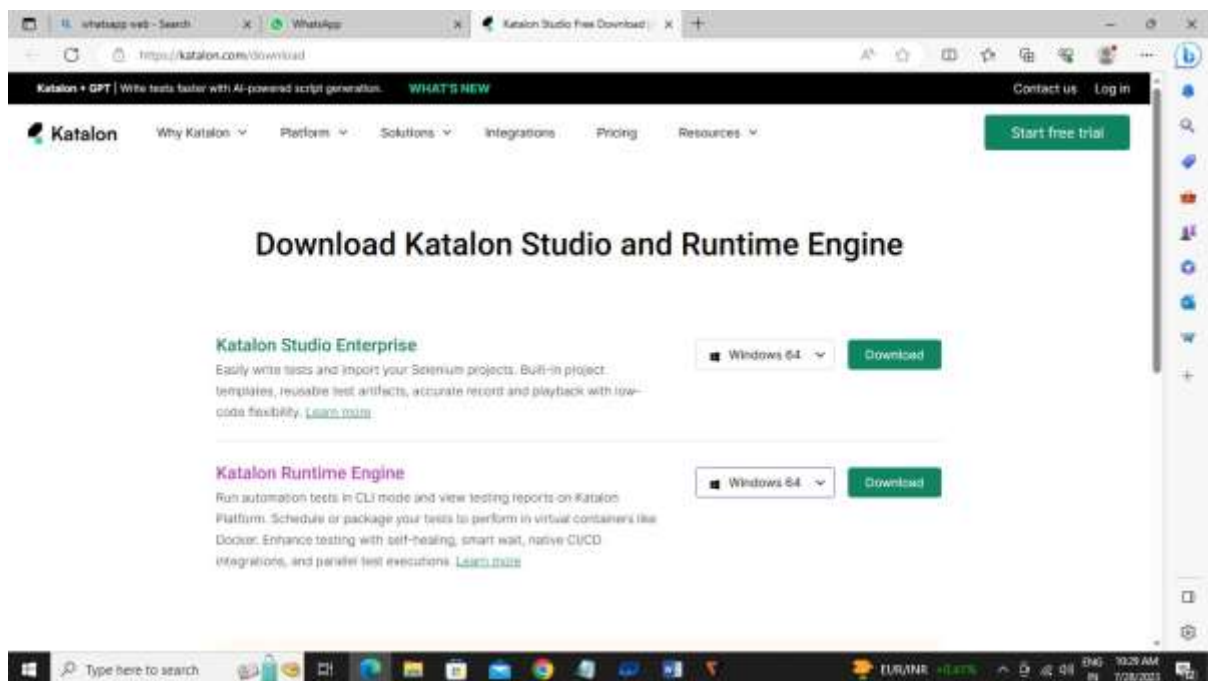
## Activity 2: -

### Installation

To install the necessary dependencies for the Facebook automation project, follow these steps:

**Activity 2.1:-** Install Katalon Studio: Visit the Katalon Studio website (<https://katalon.com/download>) and download the latest version of Katalon Studio.

Follow the installation instructions for your operating system.

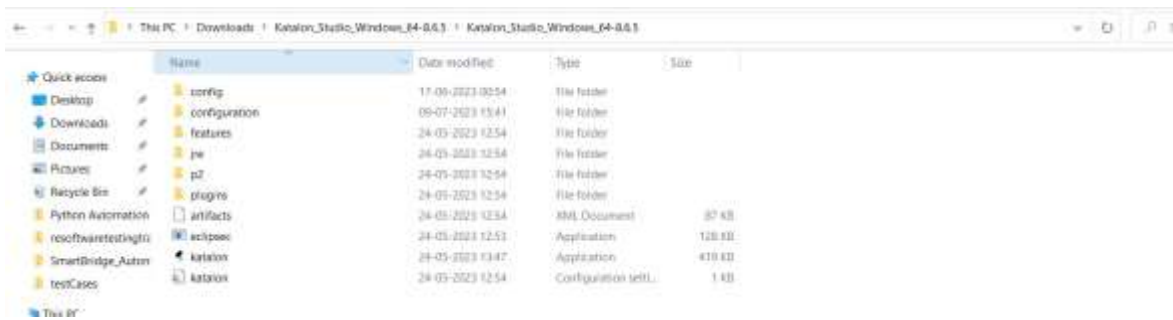


After downloading Katalon Studio and extracting the contents from the zip file, locate the folder where you extracted it.

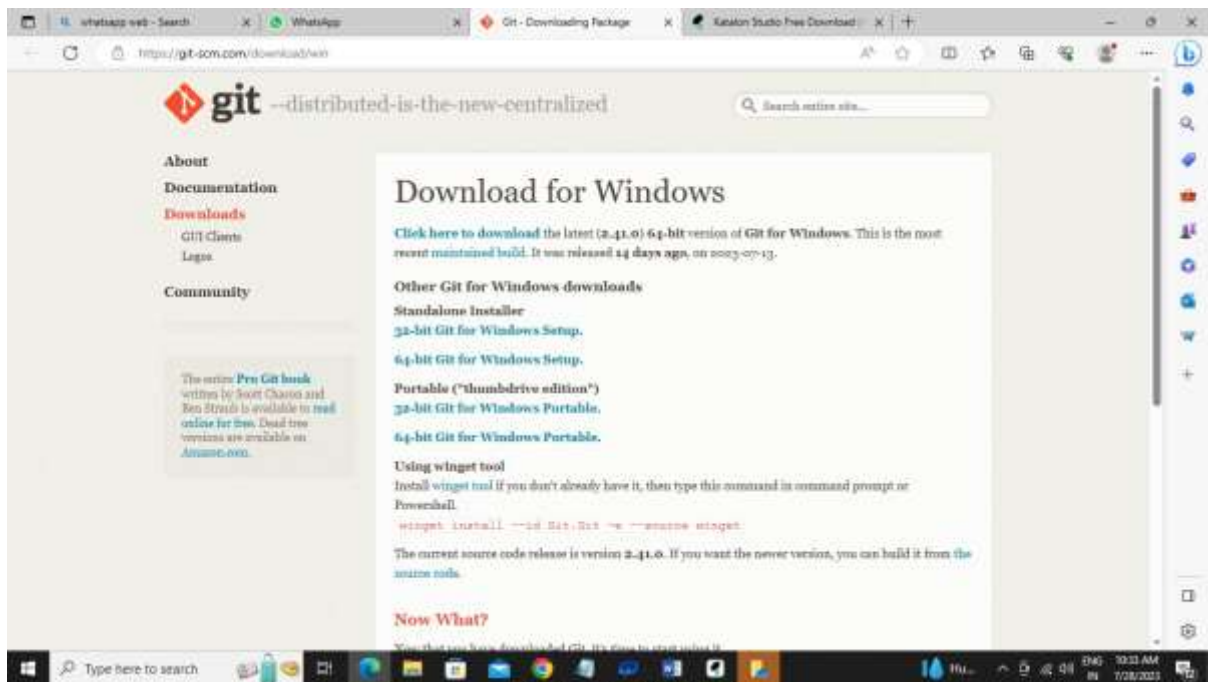
In that folder, look for the "**katalon.exe**" file. This file is the executable for Katalon Studio.

Double-click on the "**katalon.exe**" file to launch Katalon Studio. It may take a few moments to start up.

Once **Katalon Studio** is launched, you can start creating or opening your project by selecting "File" from the menu bar and choosing either "**New Project**" or "Open Project" based on your requirements.

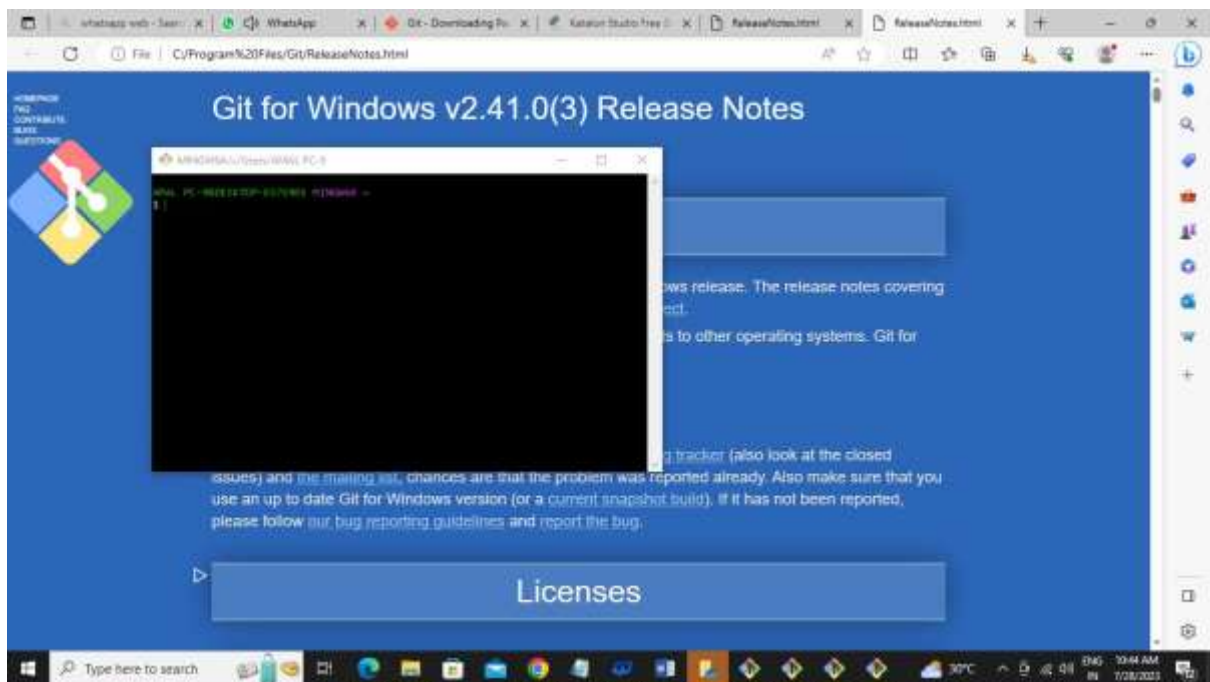


**Activity 2.2:-** Download and install **gitbash** from <https://git-scm.com/download/win>



**Activity 2.3: -** Go to the desired location where you want to create the folder, such as Desktop. Folder name like e. g. (Automation\_Testing\_Project)

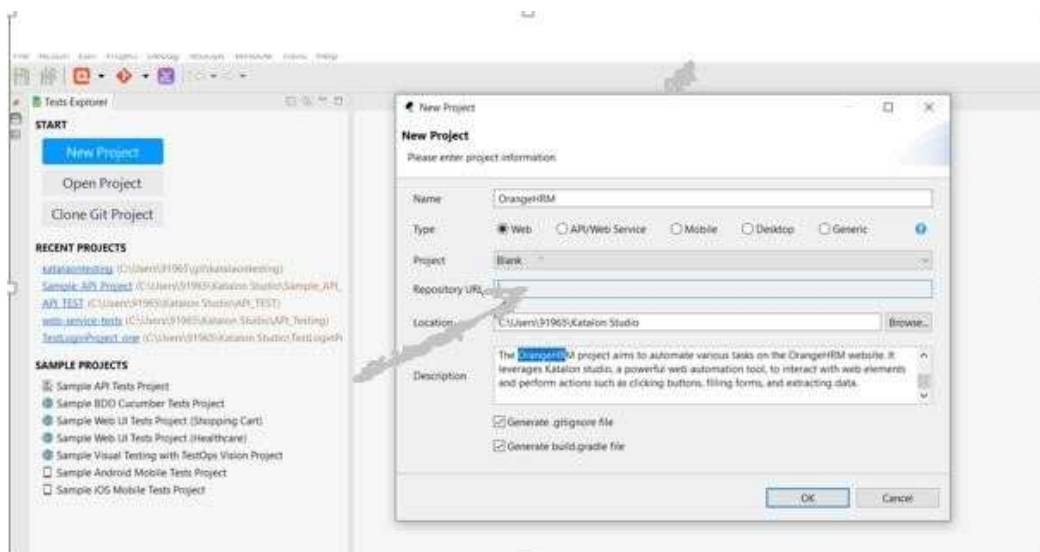
Open the folder-➊ Right click with in the folder and select open gitbash here, you will get pop up like below and clone the repository based on the next steps provided below.



### Activity 3: - Project Setup

Explained how to set up the project locally, including steps like:

Before cloning the project create project like below in Katalon Studio.



**Activity 3. 1: - Clone the repository from GitHub.**

**Activity 3. 2: - Enter the repository URL and click ok. Repo URL provided below.**

**Activity 3. 3: - Clone the Facebook project repository from [repository URL].**

[https://github.com/venkatsaitesting123/SmartBridge\\_Automation\\_Projects.git](https://github.com/venkatsaitesting123/SmartBridge_Automation_Projects.git)

**Activity 3. 4: - Configuration settings (if any)**

## Milestone 2:

### Project Structure

**Activity 1:** -Explained the structure of the project, including directories and files, and their purposes.  
For example:

**Select Permissions**

**User Data Permissions** Extended Permissions

<input checked="" type="checkbox"/> user_about_me	<input type="checkbox"/> user_actions.books	<input type="checkbox"/> user_actions.fitness
<input type="checkbox"/> user_actions.music	<input type="checkbox"/> user_actions.news	<input type="checkbox"/> user_actions.video
<input checked="" type="checkbox"/> user_birthday	<input checked="" type="checkbox"/> user_education_history	<input type="checkbox"/> user_events
<input type="checkbox"/> user_friends	<input type="checkbox"/> user_games_activity	<input type="checkbox"/> user_groups
<input type="checkbox"/> user_hometown	<input checked="" type="checkbox"/> user_likes	<input type="checkbox"/> user_location
<input type="checkbox"/> user_managed_groups	<input type="checkbox"/> user_photos	<input type="checkbox"/> user_posts
<input type="checkbox"/> user_relationship_details	<input type="checkbox"/> user_relationships	<input type="checkbox"/> user_religion_politics
<input type="checkbox"/> user_status	<input type="checkbox"/> user_tagged_places	<input type="checkbox"/> user_videos
<input type="checkbox"/> user_website	<input type="checkbox"/> user_work_history	

Public profile included by default.

**Get Access Token** Clear Cancel

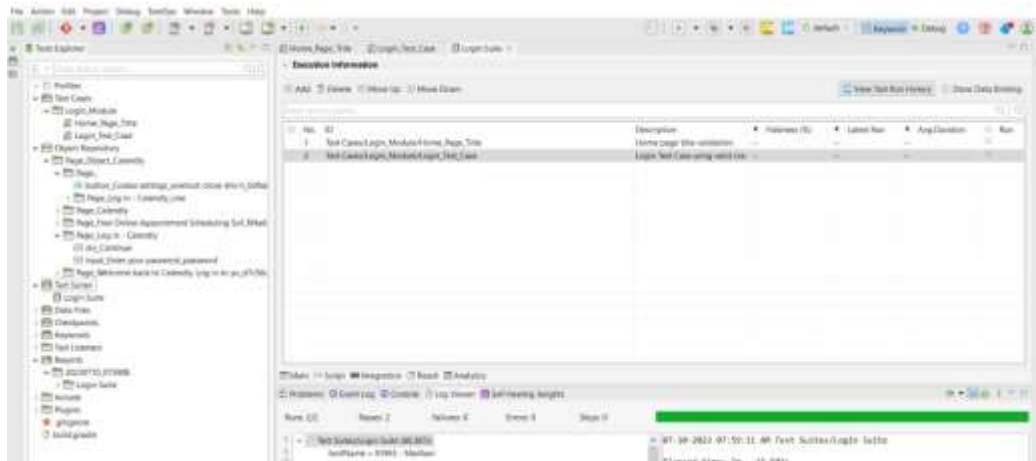
- **tests cases/**: Directory containing test scripts
- **Object Repository/**: Directory containing page object models
- **test Suites/**: Directory containing run multiple test cases
- **reports/**: Directory containing test reports
- **datafiles/**: Directory containing test data (**ex: excel, csv, text, Json files**) related to project
- **Run:** - Option to run all the testcases from the top quick access tool bar.

#### Activity 2: -Writing Test Cases

Explained how to write test cases using Katalon Studio (it uses internally java, groovy script). Provide examples of different types of test cases, such as:

- Test case 1: Home Page functionality Screenshot of the code:





- Test case 2: Register new user functionality
- **Add new testcases as per Manual testcases prepared.**

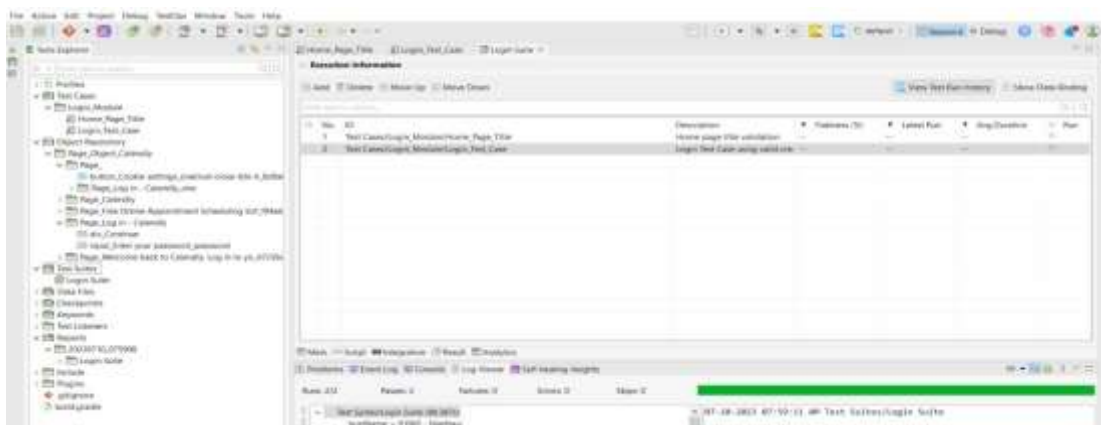
Include best practices for writing maintainable and readable test cases.

## Milestone 3:

### Running Tests

Explained how to run the test cases using Katalon studio. Include information about command-line options and flags that can be used to customize test execution.

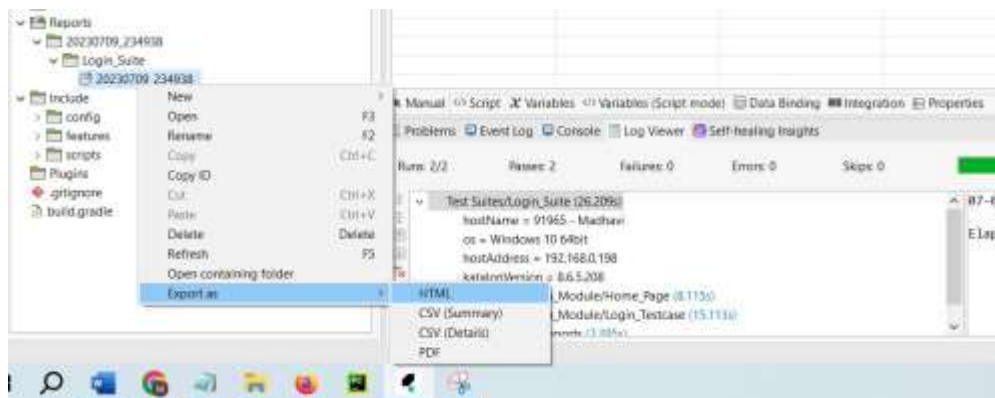
**Activity 1:** - Option to run all the testcases from the top quick access tool bar.



## Milestone 4: Test Reporting

Explained how test reports are generated and where they are stored. Include information about any tools or libraries used for reporting, such as katalon reporting.

**Activity 1:** - **reports/**: Directory containing test reports



Login Suite Test Log	
<b>Execution Environment</b> Host name: 91965 - MacHavi Local OS: Windows 10 64bit Katalon version: 8.6.5.205 Browser: Chrome 914.0.0.0	
<b>Test Execution Log</b>	
<b>TEST SUITE: Login Suite</b> <span>Expand All</span> Full Name: Login Suite Start / End / Elapsed: 2023-07-10 07:59:11.530 - 2023-07-10 08:00:27.105 / 00:01:15.603 Status: 2 test 100% 0 passed 0 failed 0 error 0 notrunable 0 skipped	
<b>TEST CASE: Test Cases/Login_ModuleHome_Page_Title</b> <span>Expand All</span> Full Name: Login Suite/Test Cases/Login_ModuleHome_Page_Title Description: Home page title validation Tag: Smoke Start / End / Elapsed: 2023-07-10 07:59:11.600 - 2023-07-10 07:59:26.104 / 00:00:14.504 Status: PASSED <ul style="list-style-type: none"> <li>TEST STEP: openBrowser()</li> <li>TEST STEP: navigateToUrl("https://www.facebook.com/")</li> <li>TEST STEP: maximizeWindow()</li> <li>TEST STEP: waitForElementVisible("input[type='text']")</li> <li>TEST STEP: clickElement()</li> </ul>	
<b>TEST CASE: Test Cases/Login_ModuleLogin_Test_Case</b> <span>Expand All</span> Full Name: Login Suite/Test Cases/Login_ModuleLogin_Test_Case Description: Login Test Case using valid credentials Tag: Smoke Start / End / Elapsed: 2023-07-10 07:59:26.121 - 2023-07-10 08:00:27.103 / 00:01:00.982	

## Troubleshooting

List common issues that may occur during project setup or test execution and provide possible solutions.

## Conclusion

The Facebook automation project provides a framework for automating various tasks within the Facebook web application using Katalon Studio. With this documentation, you should be able to set up the project, execute tests, and extend/customize it according to your needs.