

SOFTWARE ENGINEERING LAB

EXERCISE – 1

TOPIC – 1

INSTALLATION OF STARUML, GIT BASH AND GITHUB ACCOUNT CREATION

1. Introduction to the Lab Exercise

- **Topic:**

This lab exercise focuses on setting up essential tools for software engineering, specifically **StarUML**, **Git Bash**, and **GitHub**. These tools are important for designing, coding, and collaborating on software projects.

NOTE - At each step of the installation process and account creation, take screenshots and save them in a Word document. Ensure the document is named with the student's roll number before uploading it to Tesselator for evaluation.

2. What is the Use of StarUML?

- **Explanation:**

StarUML is a software tool used to create diagrams that help in designing and understanding complex systems. It is especially useful in software development.

- **Purpose:**

It allows you to visually map out how different parts of a system or application will work together, making it easier to plan, communicate, and build the system effectively.

- **Analogy:**

Think of StarUML as a drawing tool for software engineers to sketch out their ideas.

3. How to Install StarUML

- **Steps:**

1. **Search for StarUML:**

Go to Google, search for "StarUML", and click on the official link.

2. **Download StarUML:**

Visit the site <https://staruml.io/> and download StarUML for Windows or Mac.

3. **Installation Interface:**

Once installed, explore the StarUML interface to get familiar with its features.

4. What is the Use of Git Bash?

- **Explanation:**

Git Bash is an application that lets you use Git commands on your computer.

- **Git:**

A tool for tracking changes in files, mainly used for managing code in software projects.

- **Bash:**

A command-line tool that allows you to type in commands to perform various tasks on your computer.

- **Purpose:**

Git Bash combines Git and Bash, making it easier to manage your code and work with files and projects. It's like a smart helper for keeping track of changes and collaborating with others.

5. How to Install Git Bash

- **Steps:**

1. **Search for Git Bash:**

Go to Google, search for "Git Bash", and click on the official link.

2. Download Git Bash:

Visit the site <https://git-scm.com/downloads> and download Git for Windows or Mac.

3. Installation Interface:

After installation, familiarize yourself with the Git Bash interface.

6. What is the Use of GitHub?

- **Explanation:**

GitHub is a website where people can store and share their computer code.

- **Purpose:**

It acts as a big online folder where you can keep your work, make changes, and collaborate with others. It helps you and your team work on a project together, track changes, and keep everything organized.

7. How to Create an Account in GitHub

- **Steps:**

1. **Search for GitHub:**

Go to Google, search for "GitHub", and click on the official link.

2. **Sign Up:**

Visit the site <https://github.com/> and click on "Sign Up" to create a new account.

3. **Complete Signup:**

Follow the steps provided to complete the signup process.

4. **Explore Dashboard:**

After account creation, explore the GitHub dashboard to get familiar with its features.