Git and Github

Assignment

1. What is Git?

Ans1. Git is a popular Version Control System used for managing changes to files and directories in a project. It was created by Linus Torvalds in 2005 to help manage the development of the Linux Kernel. Git allows multiple developers to work on a project simultaneously and collaboratively, while keeping track of changes made to the project over time.

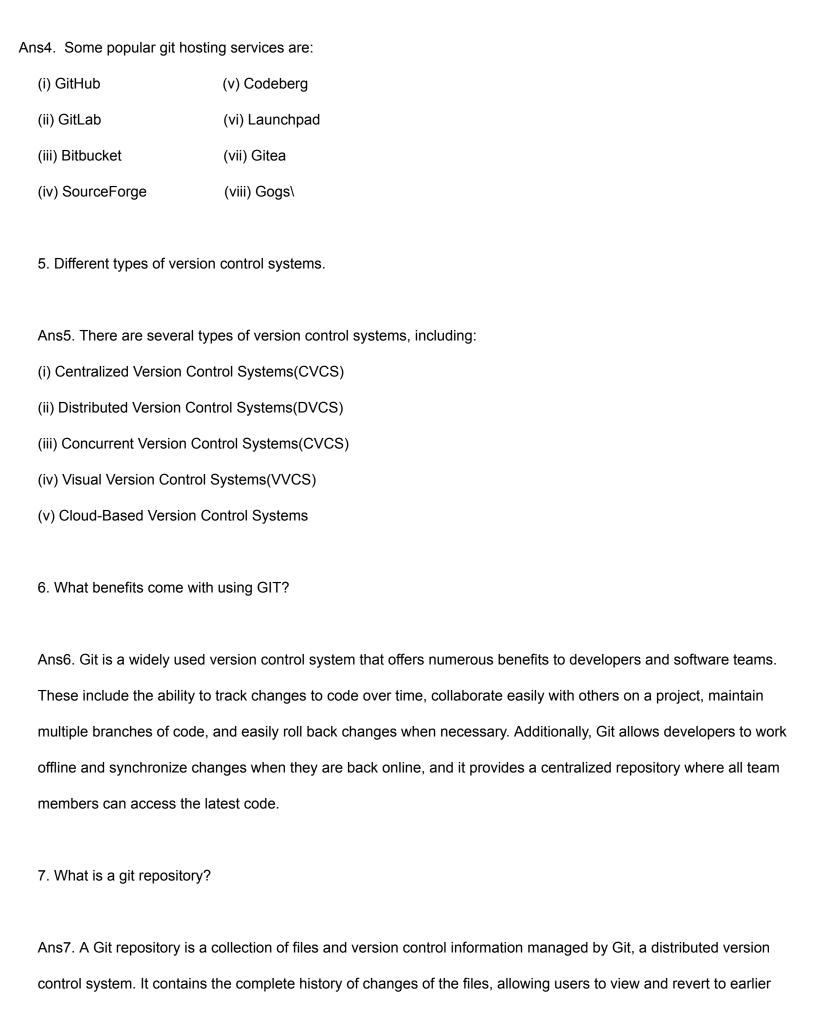
2. What do you understand by the term 'Version Control System'?

Ans2. A Version Control System (VCS) is a software tool that allows developers to track and manage changes to a codebase or set of files over time. It helps developers to collaborate on a project, maintain multiple versions of the codebase, and keep track of changes made by individual contributors. VCS provides features such as creating a backup of the code, identifying the author of the change, tracking changes between versions, restoring previous versions of the code, and merging changes made by multiple developers.

3. What is GitHub?

Ans3. GitHub is a web-based platform for version control and collaboration that allows developers to store and manage their code repositories online. It was founded in 2008 and has since become one of the most popular platforms for open-source development, with millions of users worldwide. On GitHub, developers can create repositories to store their code, and they can use Git, a distributed version control system, to manage and track changes to the code over time. GitHub also provides tools for issue tracking, project management, and collaborations, making it easier for teams to work together on coding projects.

4. Mention some popular Git hosting services.



versions as needed. Git repositories can be stored locally or remotely, allowing multiple users to collaborate on the same project. They can be created from scratch or cloned from existing repositories, making it easy to share and work on code across multiple devices and environments.

8. How can you initialize a repository in Git?

Ans8. To initialize a Git repository, navigate to the root directory of your project in your terminal or command promp, then type "gitinit" and hit enter. This will create a new Git repository in your current directory. You can then start adding files and making commits to track changes in your project.

