***In this WORD , you’ll find the content of the final exam***

TIC

What is TIC about ?



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***What is Git?***

**Git is a DevOps tool used for source code management. It is a free and open-source version control system used to handle small to very large projects efficiently. Git is used to tracking changes in the source code, enabling multiple developers to work together on non-linear development. Linus Torvalds created Git in 2005 for the development of the Linux kernel**

**Git is a version control system used for tracking changes in computer files. It is generally used for source code management in software development.**

***what is git used for ?***

**Git is used to tracking changes in the source code**

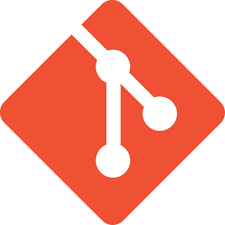
**The distributed version control tool is used for source code management**

**It allows multiple developers to work together**

**It supports non-linear development through its thousands of parallel branches**

***Features of Git :***

* **Tracks history**
* **Free and open source**
* **Supports non-linear development**
* **Creates backups**
* **Scalable**
* **Supports collaboration**
* **Branching is easier**
* **Distributed development**

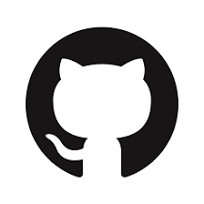
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***what is github ?***

**GitHub is an AI-powered developer platform that allows developers to create, store, and manage their code. It uses Git software, providing the**

**distributed version control of Git plus access control, bug tracking, software feature requests, task management, continuous integration, and wikis for every project. Headquartered in California, it has been a subsidiary of Microsoft since 2018**

**It is commonly used to host open source software development projects. As of January 2023, GitHub reported having over 100 million developers and more than 372 million repositories, including at least 28 million public repositories. It is the world's largest source code host as of June 2023.**

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***Founding***

**Development of the GitHub platform began on October 19, 2007. The site was launched in April 2008 by Tom Preston-Werner, Chris Wanstrath, P. J. Hyett and Scott Chacon after it had been available for a few months as a beta release. GitHub has an annual keynote called GitHub Universe.**

***Organizational structure***

**GitHub was originally a flat organization with no middle managers; in other words, "everyone is a manager" (self-management). Employees could choose to work on projects that interested them (open allocation), but the chief executive set salaries. (i.e. Individual or groups of company executive leaders decides on project aims and development, including funding)**

**In 2014, GitHub, Inc. added a layer of middle management in response to serious harassment allegations against its senior leadership. As a result of the scandal, Tom Preston-Werner resigned from his position as CEO.**

***Services***

**Projects on GitHub.com can be accessed and managed using the standard Git command-line interface; all standard Git commands work with it. GitHub.com also allows users to browse public repositories on the site. Multiple desktop clients and Git plugins are also available. In addition, the site provides social networking-like functions such as feeds, followers, wikis (using wiki software called Gollum), and a social network graph to display how developers work on their versions ("forks") of a repository and what fork (and branch within that fork) is newest.**

**Anyone can browse and download public repositories, but only registered users can contribute content to repositories. With a registered user account, users can have discussions, manage repositories, submit contributions to others' repositories, and review changes to code. GitHub.com began offering limited private repositories at no cost in January 2019 (limited to three contributors per project). Previously, only public repositories were free. On April 14, 2020, GitHub made "all of the core GitHub features" free for everyone, including "private repositories with unlimited collaborators."**

**The fundamental software that underpins GitHub is Git itself, written by Linus Torvalds, creator of Linux. The additional software that provides the GitHub user interface was written using Ruby on Rails and Erlang by GitHub, Inc. developers Wanstrath, Hyett, and Preston-Werner.**

***what is the purpose of github ?***

**The primary purpose of GitHub is to facilitate the version control and issue tracking aspects of software development. Labels, milestones, responsibility assignment, and a search engine are available for issue tracking. For version control, Git (and, by extension, GitHub.com) allows pull requests to propose changes to the source code. Users who can review the proposed changes can see a diff between the requested changes and approve them. In Git terminology, this action is called "committing" and one instance of it is a "commit." A history of all commits is kept and can be viewed at a later time .**