

GITHUB

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WHAT IS GITHUB

- Web-based platform built on Git.
- Designed for version control and collaboration in software development.

THE HISTORY OF GITHUB

GitHub was founded in 2008 by Tom Preston-Werner, Chris Wanstrath, and PJ Hyett. It gained rapid popularity among developers due to its intuitive interface and robust features for collaboration. In 2018, Microsoft acquired GitHub for \$7.5 billion, although it continues to operate as an independent platform.



PURPOSE OF GITHUB:

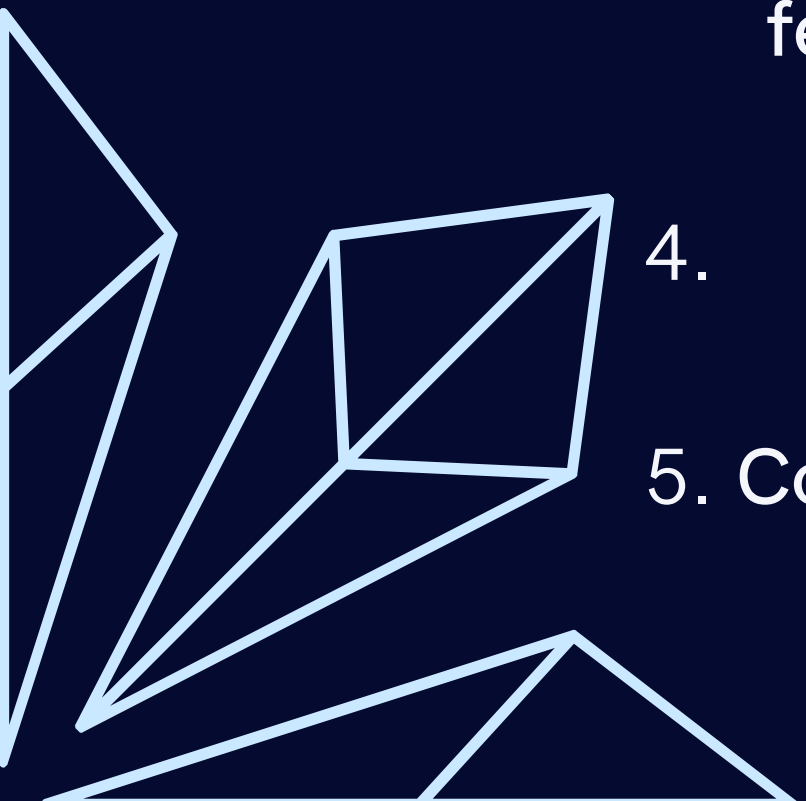
GitHub serves several purposes in the software development lifecycle, including:

1. Version Control
2. Collaboration
3. Project Management
4. Code Hosting



HOW GITHUB WORKS:



1. Create a Repository: Users create repositories to store their code and related files.
 2. Add and Commit Changes: Developers make changes to their code, stage those changes, and commit them to the repository.
 3. Branching and Merging: GitHub allows users to create branches to work on features or fixes independently. Once changes are ready, they can be merged back into the main branch.
 4. Collaboration: Multiple developers can collaborate on a project by forking repositories, creating pull requests, and reviewing each other's code.
 5. Continuous Integration and Deployment: GitHub integrates with various CI/CD tools to automate testing and deployment processes.
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CREATING A REPOSITORY ON GITHUB:

1. Log in to your GitHub account.
2. Click on the "+" icon in the top-right corner and select "New repository."
3. Choose a name for your repository, add an optional description, and select other settings like visibility (public or private) and initialization with a README file.
4. Click "Create repository."

UPLOADING A FILE TO YOUR REPOSITORY:

1. Open the repository on GitHub.
2. Click the "Add file" drop-down button and select the "Upload file" option.
3. Drag and drop the file from your computer or click "Select file" to select the file from the file system.
4. Once you have selected the file, click "Commit Changes" to upload it to the repository.

The background features a dark blue field with a pattern of bright blue geometric lines. These lines form a series of overlapping hexagons and triangles, primarily concentrated along the left and right edges, creating a modern, architectural feel.

THANKS