



**VIDYABHARTI TRUST COLLEGE OF
BUSINESS, COMPUTER-SCIENCE AND RESEARCH**
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Get to know more about **IT**

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INTRODUCTION OF GitHub

- GitHub is a web-based platform that provides hosting for software development and version control using Git. It allows developers to work collaboratively on projects, track changes, and manage revisions. GitHub offers various collaboration features such as bug tracking, feature requests, task management, and wikis for every project.
- Developers use GitHub to store and manage their code, as well as to control and track changes to their codebase. The platform facilitates a distributed version control system, enabling multiple people to work on the same codebase simultaneously. It is widely used for open-source projects, where developers from all over the world can contribute to a project by making pull requests, suggesting changes, and resolving issues.
- GitHub also provides a social networking aspect, with features such as followers and the ability to star or fork projects. This allows users to stay updated with the work of others and easily contribute to projects that interest them. Additionally, GitHub Pages enables users to host their websites directly from their GitHub repository.
- Overall, GitHub has become an integral part of the software development process, serving as a hub for collaboration, version control, and code management for millions of developers and organizations worldwide.

USE OF GITHUB

- GitHub is a web-based platform that uses the Git version control system to facilitate collaborative software development. It offers a range of features and services that make it a valuable tool for individuals and teams working on coding projects. Here are some common uses of GitHub:

Version Control:

- **Tracking Changes:** GitHub allows developers to track changes in their code over time. Developers can create branches to work on specific features or fixes and then merge those changes back into the main codebase.

History and Commit Logs:

- The commit history provides a detailed log of changes, making it easy to understand the evolution of the codebase.

Collaboration:

- **Remote Collaboration:** GitHub enables developers to work on the same project from different locations. Multiple developers can collaborate on a project simultaneously, making it easier to work in distributed teams.
- **Forking and Pull Requests:** Users can fork a repository to create their copy. After making changes, they can send a pull request to the original repository, proposing their changes for review and integration.

Issue Tracking:

- **Bug Tracking:** GitHub provides a built-in issue tracking system. Users can create issues to report bugs, suggest enhancements, or discuss any aspect of the project.
- **Task Management:** Issues can be used for task management, assigning tasks to team members, setting milestones, and tracking progress.

Continuous Integration/Continuous Deployment (CI/CD):

Automated Testing:

- GitHub integrates with various CI/CD tools, allowing developers to automate testing processes to ensure code quality.

Deployment Pipelines:

- CI/CD pipelines can be configured to automatically deploy code to staging or production environments when certain criteria are met.

Documentation:**Wiki and README files:**

- GitHub provides space for project documentation. Developers can use the Wiki feature to create detailed documentation, and the README file is often used to provide essential information about the project.

Community and Social Coding:**Pull Requests and Code Review:**

- GitHub facilitates code reviews through pull requests, where contributors can review each other's code, leave comments, and suggest improvements. Social Coding: Developers can follow projects, star repositories, and participate in discussions, fostering a sense of community.

Project Management:

- Projects and Boards: GitHub provides tools for project management, including boards that can be customized to match different workflows, helping teams to organize and prioritize tasks.

Hosting and Distribution:

- Repository Hosting: GitHub serves as a centralized repository for code, making it easy for developers to clone, fork, and contribute to projects.

Release Management:

- Developers can create releases on GitHub, making it straightforward for users to download specific versions of the software.
- GitHub's versatility makes it a crucial tool in modern software development, whether for open-source projects, private repositories, or enterprise-level collaboration.

PROF. PRIYA SHARMA,

PROF. MOHINI PATEL

TEACHING ASSISTANT

DATA STRUCTURE

List

Online shopping cart – an ordered collection of items with the ability to access items at specific positions.

Linked-list

Browser history – enables quick and efficient traversal backward and forward through the history.

Tree

File system – trees are mirroring the organizational structure of directories and subdirectories.

Many file systems are represented as trees with directories as nodes.

Stack

Undo functionality – Last In, First Out (LIFO) the last element added is the first one to be removed.

Heap

Priority queue – efficiently ensures that the element with the highest priority is always readily accessible.

Graph

Social media network – helps in suggesting new friends, finding mutual connections, and disseminating posts through the network.

Queue

Printer Queue – follows the First In, First Out (FIFO) principle, print jobs are processed in the order they are received.

MR. AMIT PATEL
HOD AND ASST. PROFESSOR

A report on “Trip to Aatapi Wonderland, Baroda - 2023”

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|-----------------------|---|
| Trip Date: | 9th November 2023 |
| Trip Venue: | Aatapi Wonderland, Baroda |
| Trip Time: | 6:00 AM Onwards |
| Organised By: | Vidyabharti trust college of business, computer science and research Umrakh |
| Academic year: | 2023-2024 |

At Vidyabharti trust college of business, computer science and research Umrakh, we think that having fun is a vital component of life and the holistic development of the mind, body, and soul. It also fosters social flexibility and teamwork in Students. to guarantee that each of our students enjoys themselves to the fullest. a visit to "Aatapi Wonderland" in Baroda on November 09, 2023, for students in BBA & BCA.

Students had a company of BBA & BCA faculty with them. The thrill of the journey made sure that everyone was suitably prepared for the same and that the trip started on schedule. They had a great time trying out a number of exhilarating and daring rides throughout the day; the exquisitely designed park was a visual and emotional delight. The water rides provided much-needed relief from the intense heat. In the water, the students rehydrated. A captivating Laser show and a group of dancers tapping their feet to music concluded the evening.

For all VBTians, it was an exciting journey filled with fun, excitement, adventure, and a day to remember.

Photo Gallery



