

SOURCE CODE MANAGEMENT FILE

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**Source Code Management File**

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What is GIT and why is it used? Git is a version control system that is widely used in the programming world. It is used for tracking changes in the source code during software development.It was developed in 2005 by Linus Torvalds, the creator of the Linux operatingsystem kernel. Git is a speedy and efficient distributed VCS tool that can handle projects of anysize, from small to very large ones. Git provides cheap local branching, convenient staging areas, and multiple workflows. It is free, open-source software that lowers the cost because developers can use Git without paying money. It provides support for non-linear development. Git enables multiple developers or teams to work separately without having an impact on the work ofothers. Git is an example of a distributed version control system (DVCS) (henceDistributed Version Control System)

What is GITHUB? It is the world’s largest open-source software developer community platform where the users upload their projects using the software Git.

What is the difference between GIT and GITHUB?

What is Repository? A repository is a directory or storage space where your projects can live. Sometimes GitHub users shorten this to “repo.” It can be local to a folder on your computer, or it can be a storage space on GitHub or another online host. You can keep code files, text files, image files, you name it, inside a repository. What is Version Control System (VCS)? A version control system is a tool that helps you manage “versions” of your code or changes to your code while working with a team over remote distances.Version control keeps track of every modification in a special kind of database that is accessible to the version control software. Version control software (VCS) helps you revert back to an older version just in case a bug or issue is introduced to the system or fixing a mistake without disrupting the work of other team members. Types of VCS 1. Local Version Control System 2. Centralized Version Control System 3. Distributed Version Control System I. Local Version Control System: Local Version Control System is located in your local machine. If the local machine crashes, it would not be possible to retrieve the files, and all the information will be lost. If anything happens to a single version, all the versions made after that will be lost. AI. Centralized Version Control System: In the Centralized Version Control Systems, there will be a single central server that contains all the files related to the project, and many collaborators checkout files from this single server (you will only have a working copy). The problem with the Centralized Version Control Systems is if the central server crashes, almost everythingrelated to the project will be lost. BI. Distributed Version Control System: In a distributed version control system, there will be one or more servers and many collaborators similar tothe centralized system. But the difference is, not only do they check out thelatest version, but each collaborator will have an exact copy of the main repository on their local machines. Each user has their own repository and aworking copy. This is very useful because even if the server crashes we would not lose everything as several copies are residing in several other computers

Problem Statement “Build a website and deploy it on GitHub” Many a times, while travelling we get into certain unforeseen situations where we run out of fuel or our vehicle gets overheated. On a deserted road, the possibility of finding a petrol pump nearby or a mechanic is negligible. In a situation like this we would need someone to provide assistance to help us get out of that situation. Here comes "ServeU” addressing the real time vehicle breakdown problems of customers in day-to-day life

Solution Vehicle Servicing, Vehicle repairs and Car cleaning - we are your onestop solution for all things cars. ServeU intends to be the best roadside assistance provider in India by addressing the real time vehicle breakdown problems of customers in day-to-day life. A brainchild of 5 friends - Aadarsh Kumar, Aakash Jha, Aastha Anand, Aayushi Jain and Abhimanyu Nain, ServeU is a network of technology-enabled automobile service centres, offering a seamless car and bike service experience at the convenience of a tap. With our highly skilled technicians, manufacturer recommended procedures and the promise of genuine spare parts we are your best bet. Stay in the comforts of your home or office and make the most of our complimentary pick-up and drop-in service. Count on us to be your personal vehicle care expert, advisor and mechanic

Objective: The objective of this project is to associate programming with git because: 1. This is required because the collaboration makes the team work easy. 2. The code becomes manageable and we can build a clean repository. 3. Tracking and resolving of the errors is quite feasible in this process. 4. Moreover, we can make our locally available projects, globally available

EXPERIMENT 1

Aim: Create a distributed Repository and add members in project team 1) Login to your GitHub account and you will land on the homepage as shown below. Click on Repositories option in the menu bar.