PMKVY ASSIGNMENT FILE (27/07/23)

Github explanation

**Introduction:**

GitHub is a popular platform used by developers for version control, collaboration, and sharing of code and files. In this report, we will provide a step-by-step guide on how to create a GitHub account, share files, and utilise branching for managing code changes.

**GitHub Account Creation:**

1: Visit GitHub Website (<https://github.com/>.)

2: Sign Up

3: Provide Information

* Enter your username, email address, and a password.

4: Verify Email Address

* GitHub will send you a verification email to the provided email address.

5: Complete Setup

Once your account is verified, you will be prompted to customise your profile

**2. File Sharing:**

1: Create a New Repository

* Log in to your GitHub account.
* Click on the "+" button in the top right corner and select "New repository."
* Give your repository a name, provide an optional description, choose whether it's public or private, and initialise it with a README file.

2: Upload Files

* Open the repository you just created.
* Click on the add file button, and you'll see options to upload files.
* Drag and drop the files you want to share or click on "choose your files" to browse your computer and select the files.
* Once the files are selected, click on the commit changes button at the bottom of the page to upload the files to the repository.

3: Share the Repository

* To share the repository click on code tab of your repository.
* Copy the repository address
* You can share this URL with others to give them access to your files.

**3. Branching:**

Branching allows you to work on different versions of your code.

Here's how to create a new branch and make changes:

1: Create a New Branch

* On the repository page, click on the branch dropdown.
* Type the desired branch name in the text field and click on "Create branch."
* This creates a new branch with a copy of the code from the previous branch.

2: Commit Changes

* After making the changes, scroll down to the "Commit changes" section.
* Write a description of the changes made in the text field.
* Click on the commit changes button to save your changes to the branch.

3: Make Changes

* Go to the new branch you just created by selecting it from the branch dropdown.
* Make the desired changes to your files (add, modify, or delete files).

4: Merge Changes

* Once you are satisfied with the changes on the new branch, you can merge it back to the main branch or any other target branch.
* Go to the "Pull Requests" tab and click on the "New pull request" button.
* Select the base branch (e.g., main) and the compare branch (the branch where you made changes).
* Review the changes, add comments if necessary, and click on "Create pull request."
* If there are no conflicts, you can click on "Merge pull request" to apply the changes to the base branch.

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