**Guide: Pushing a Flask Application to GitHub**

## **1. Install Git**

Download and install Git from the official site:  
🔗<https://git-scm.com/downloads>

Verify the installation by running the following command in the command prompt:

git --version

## **2. Configure Git (First-Time Setup Only)**

Before using Git, configure your user information so that it appears in commit records:

git config --global user.name "Your Name"

git config --global user.email "your-email@example.com"

**Note:**

* The --global flag applies this configuration to all repositories.
* If omitted, the settings will be applied only to the current repository.

**To Check Your Git Configuration:**

* **List all configurations:**
  + git config --list
* **Display configured username:**

* git config user.name
* **Display configured email:**
* git config user.email

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## **3. Create a GitHub Account**

**Sign up on** [**GitHub**](https://github.com/) **if you don’t have an account.**

**4. Create a New Repository on GitHub**

* **Click on New Repository**
* **Set the repository name as:**

**<BatchName>\_<ProjectTitle>\_Repo**

**Example:**

**G32\_OnlineQuizApp\_Repo**

**5. Clone the Repository to Your Local System**

* **Copy the repository HTTPS or SSH URL from GitHub and run:**

git clone <repository-url>

* This will create a local copy of the repository.

📝 Note: The cloned repository will contain only the files that are already in the GitHub repository.

**6. Set Up a .gitignore File**

* Inside the main project folder (in VS Code or any editor), create a file named .gitignore and add the following lines:

**# Exclude virtual environment folder**

**env/**

**# Exclude database file**

**app.db**

**7. Freeze Project Dependencies**

* **Generate a requirements.txt file to list all dependencies:**

pip freeze > requirements.txt

**8. Move Your Project Into the Cloned Repository Folder:**

* Paste your Flask project folder inside the cloned repository folder.
* Ensure your main application files, .gitignore, and requirements.txt are inside the cloned repository.

**9. Push the Flask Project to GitHub:**

* Open the command prompt, navigate to the cloned repository, and run the following commands:

1. Add all project files to the staging area:

**git add .**

1. Commit the staged files to the local repository:

git commit -m "Initial project upload"

1. c. Push the changes to GitHub:

git push origin main

(If your repository uses master instead of main, replace main with master.)