**Detailed Git Command Explanation 🔍**

Let me break down **exactly what each Git command does:**

**Command 1: git init**

bash

git init

**What it does:**

* **Creates a hidden .git folder** in your current directory
* **Turns your regular folder** into a Git repository
* **Before:** Just a normal folder with Django files
* **After:** A Git-tracked project that can save history

**Think of it as:** "Hey Git, start watching this folder for changes!"

**Command 2: git add .**

bash

git add .

**What it does:**

* **Stages ALL files** in current directory for commit
* **The dot (.)** means "add everything"
* **Prepares files** to be saved in Git history
* **Before:** Files exist but Git ignores them
* **After:** Git says "I'm ready to save these files"

**Think of it as:** "Put all these files in the shopping cart, ready for checkout"

**Command 3: git commit -m "message"**

bash

git commit -m "Initial Django hotel PMS project"

**What it does:**

* **Saves a snapshot** of all staged files
* **Creates a permanent record** in Git history
* **The -m flag** adds a message describing what changed
* **Like taking a photo** of your project at this moment

**Think of it as:** "Take a picture of my project right now with this description"

**Command 4: git branch -M main**

bash

git branch -M main

**What it does:**

* **Renames current branch** to "main"
* **-M flag** means "move/rename forcefully"
* **Modern standard** (GitHub uses "main" instead of old "master")
* **Ensures compatibility** with GitHub's default branch name

**Think of it as:** "Call this version of my project 'main'"

**Command 5: git remote add origin [URL]**

bash

git remote add origin https://github.com/pogicris/hotel-snow-pms.git

**What it does:**

* **Connects your local Git** to GitHub repository
* **"origin"** is a nickname for your GitHub repository
* **Like adding a contact** to your phone
* **Tells Git WHERE to upload** when you push

**Think of it as:** "Remember that GitHub repo as my main backup location"

**Command 6: git push -u origin main**

bash

git push -u origin main

**What it does:**

* **Uploads your files** to GitHub
* **"push"** means send files TO GitHub
* **"origin"** is your GitHub repository (from previous step)
* **"main"** is the branch you're uploading
* **"-u"** sets GitHub as default destination for future pushes

**Think of it as:** "Upload my project to GitHub and remember this as my main backup"

Visual Flow:

A screenshot of a computer

AI-generated content may be incorrect.

**Real-World Analogy:**

1. **git init:** "Start a photo album"
2. **git add .:** "Select all photos to go in album"
3. **git commit:** "Glue photos in album with date/description"
4. **git remote add:** "Get address of storage facility"
5. **git push:** "Mail album to storage facility"

**Each command builds on the previous one - you must do them in this order!**