What Open-Source has for you?

Bhoomika Wavhal

(Mentor | Speaker | Open-Source Contributor | Google Cloud Facilitator)

February 05, 2022

Know Your Speaker

Bhoomika Wavhal

Software Engineer

Mentor

Tech Speaker

Open Source Contributor

Google Cloud Facilitator

linkedin.com/bhoomikawavhal

github.com/wbhoomika

bhoomikawavhal@gmail.com

What are we going to do today?

- Version Control System (VCS)
- What is Git?
- What is GitHub?
- Environment setup
- Demo
- Assignment time!!

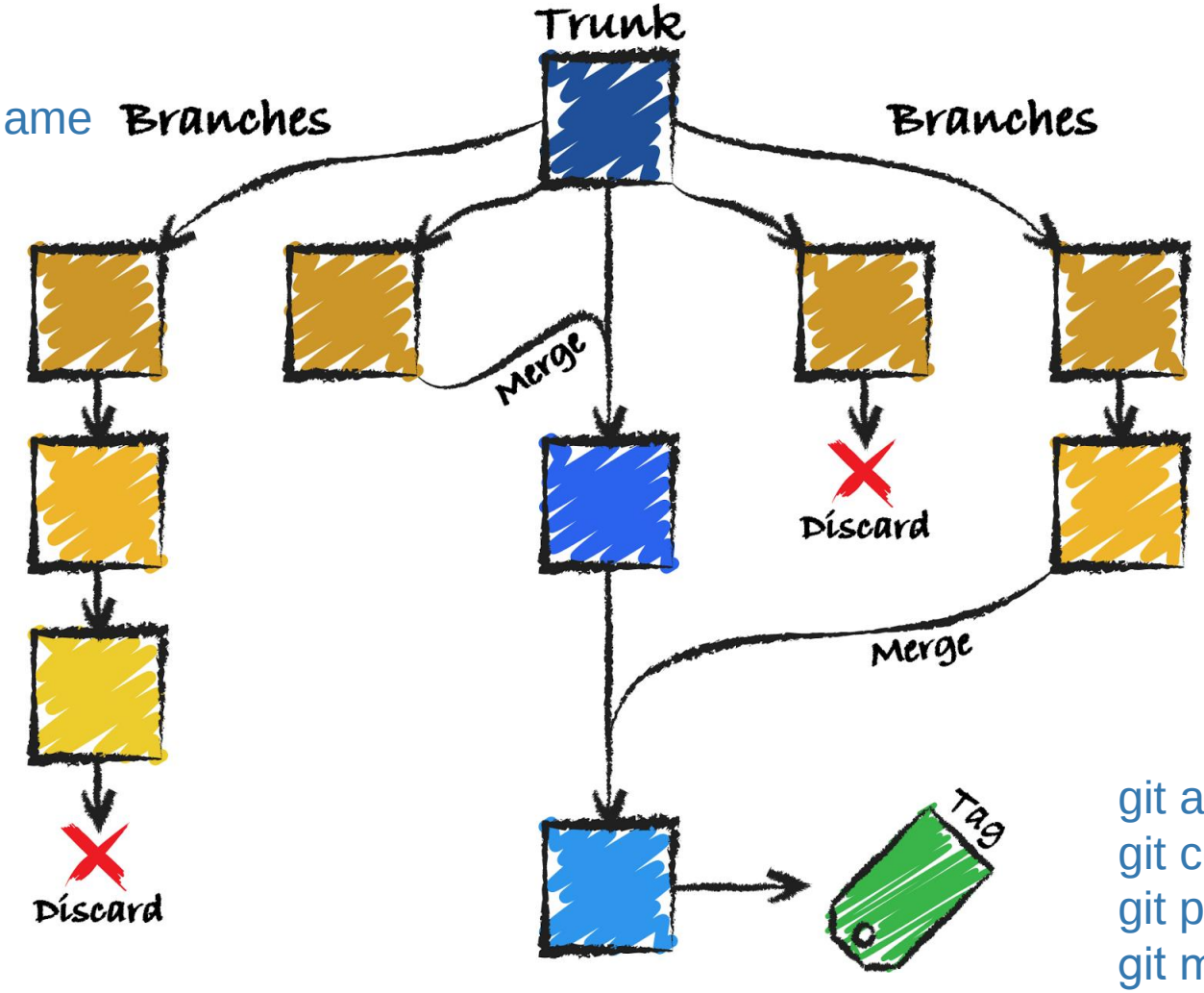
Version Control System (VCS)

- **Tracks** are left.
- **Automatic backup** available.
- Can be **shared** on multiple computers.
- Developers can **work together** through branches.
- Changes can be **recorded, compared and reverted.**
- Example: Git, Subversion (SVN), Concurrent Version System (CVS) and many more.

(It means if you screw things up or lose files, you can easily recover them.)

Version Control System (VCS)

git checkout –b branchName



git add *
git commit –m “Commit Message”
git push
git merge “branchName”
git pull

What is ?

- Version Control System (VCS).
- Can have multiple versions of a code base.
- See changes you make.
- Easily revert them.

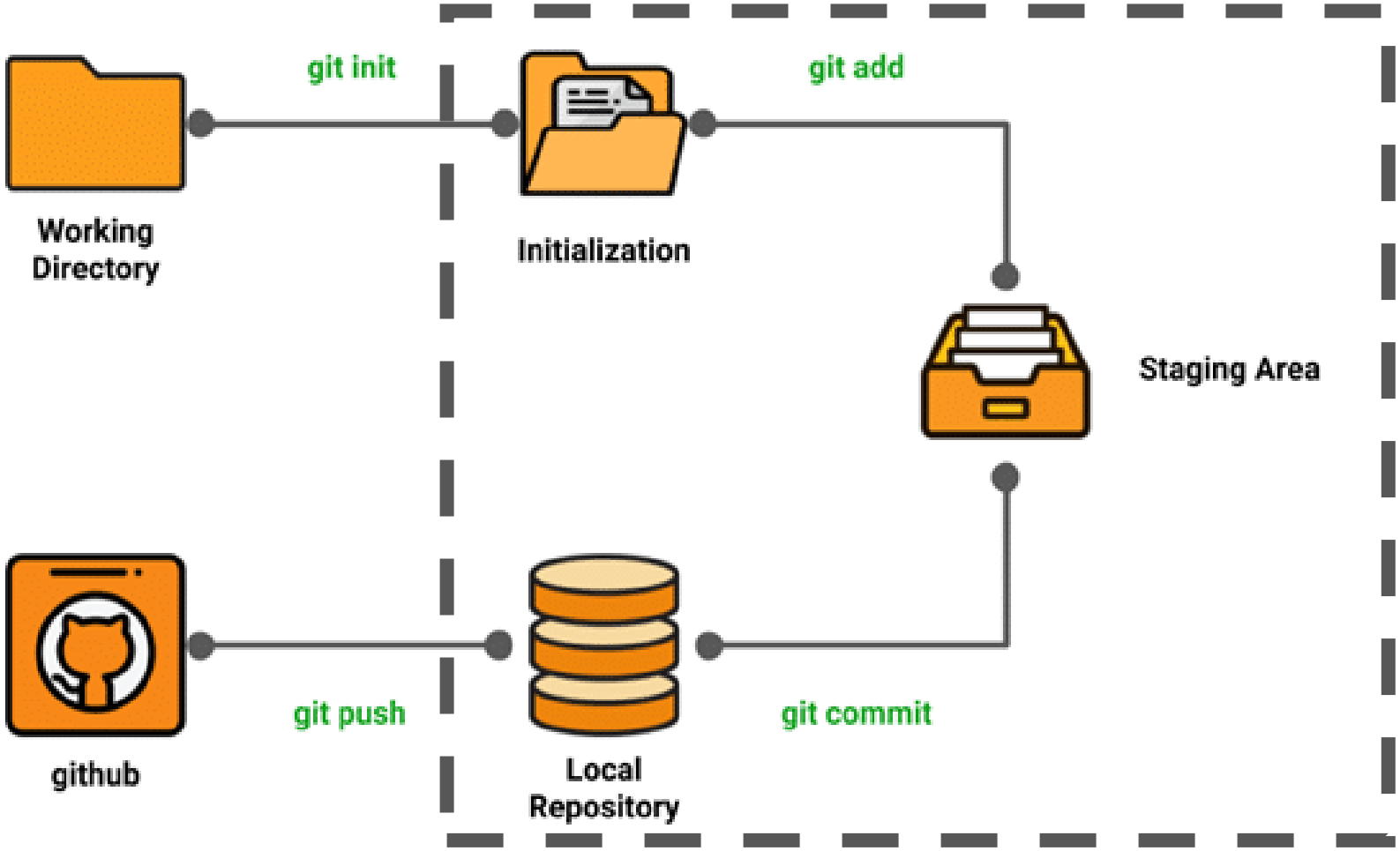
It is **NOT GITHUB**!

What is GitHub ?

- Github.com is a website.
- Hosts git repositories.
- On a remote server.
- Facilitates the sharing of codebases among teams.
- Can be easily forked or cloned

git and GitHub

A developer's best friend



Environment Setup

- Install Git
- Configure Git
- Create a GitHub account
- Create a local repository

git Installation

- Linux (Debian)

  Command: **sudo apt-get install git!**

- Linux (Fedora)

  Command: **sudo yum install git!**

- Mac

  http://git-scm.com/download/mac

- Windows

  http://git-scm.com/download/win

Configure git

↪ Generate key

ssh-keygen -t rsa -C "user@email"

↪ Import public key into GitHub

ssh -T git@github.com

↪ Configure name and email

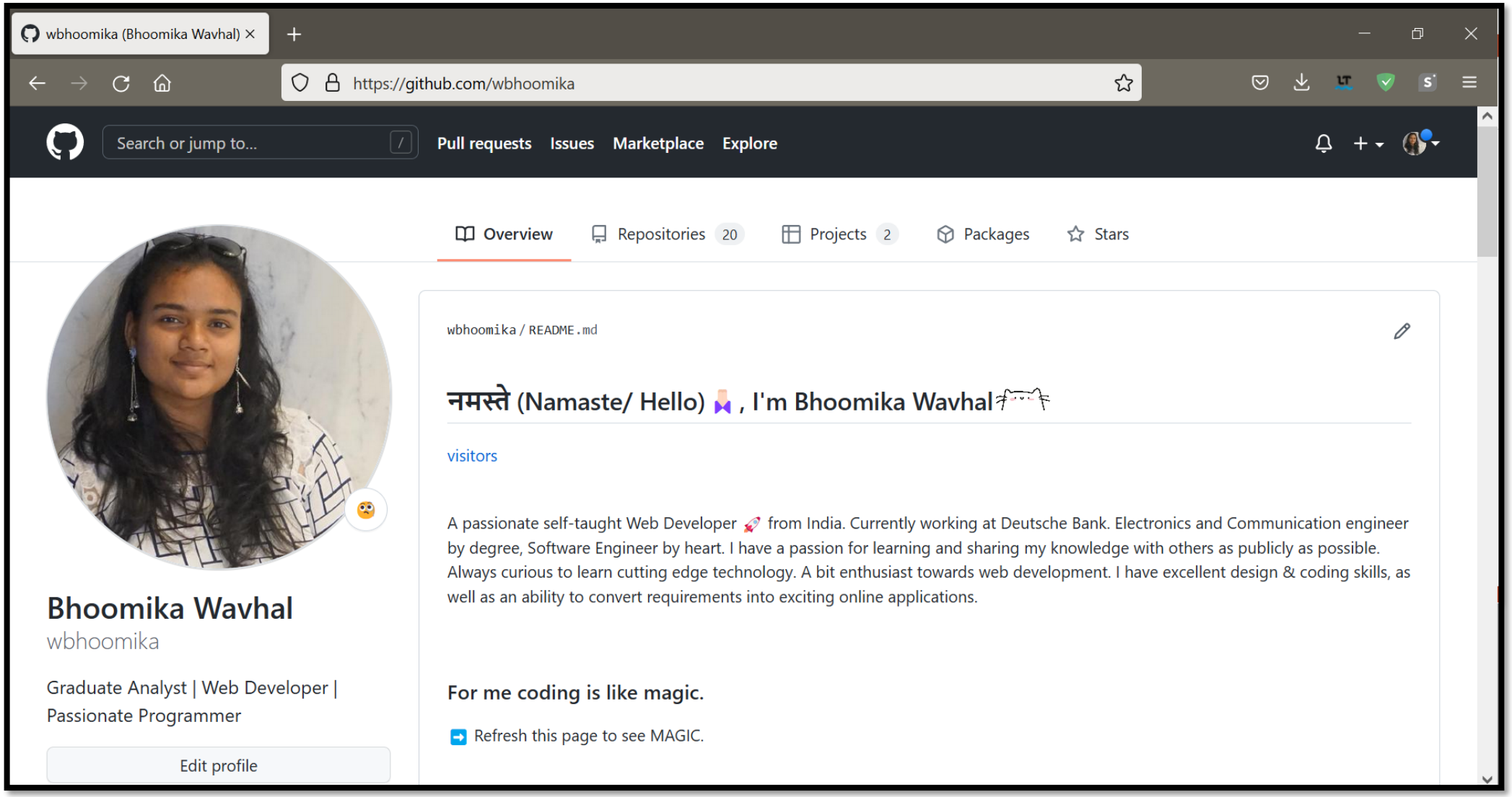
git config --global user.name "user1"

git config --global user.email "user1@email”

Creating a GitHub account

- Go to https://github.com
- Create a GitHub account
- Login

Creating a GitHub account



Lets jump to GitHub for demo ☺

https://github.com/wbhoomika/5Feb22-SkillTank-EDC-BV-DU-COEP

Assignment Time!!

- Clone the repository: https://github.com/wbhoomika/5Feb22SkillTank-EDC-BV-DU-COEP

↪ Fork it

↪ Create a valid PR

Resources

- https://git-scm.com/
- https://github.com
- https://www.atlassian.com/git/tutorials/atlassian-git-cheatsheet
- https://github.com/wbhoomika/5Feb22-SkillTank-EDC-BV-DU-COEP

Thank you for your time ☺

Bhoomika Wavhal

linkedin.com/bhoomikawavhal

github.com/wbhoomika

bhoomikawavhal@gmail.com