

What Open-Source has for you?

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Know Your Speaker

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What are we going to do today?

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

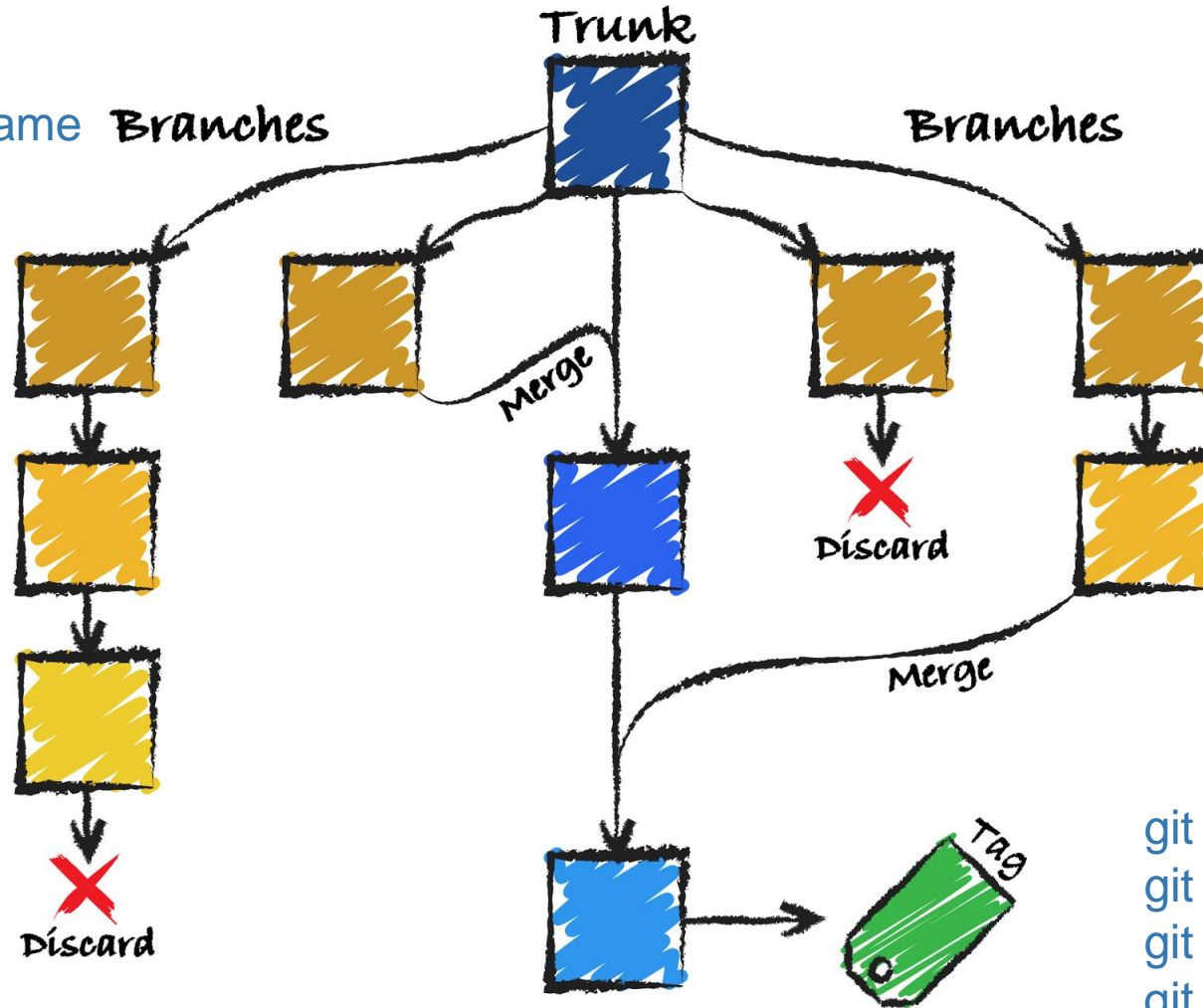
Version Control System (VCS)

- **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` Branches



`git add *`
`git commit -m "Commit Message"`
`git push`
`git merge "branchName"`
`git pull`

What is git ?

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

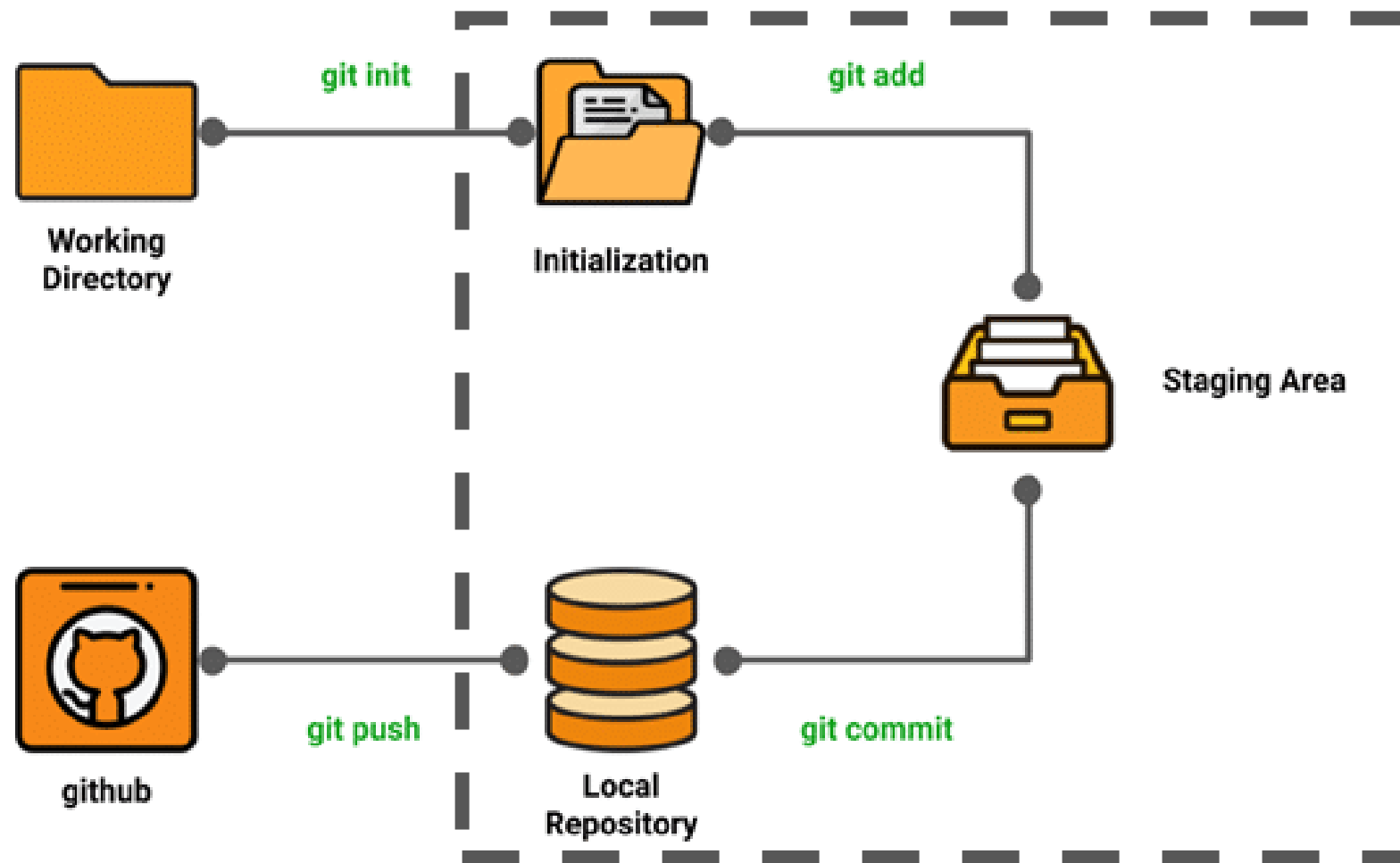
It is NOT GITHUB!

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

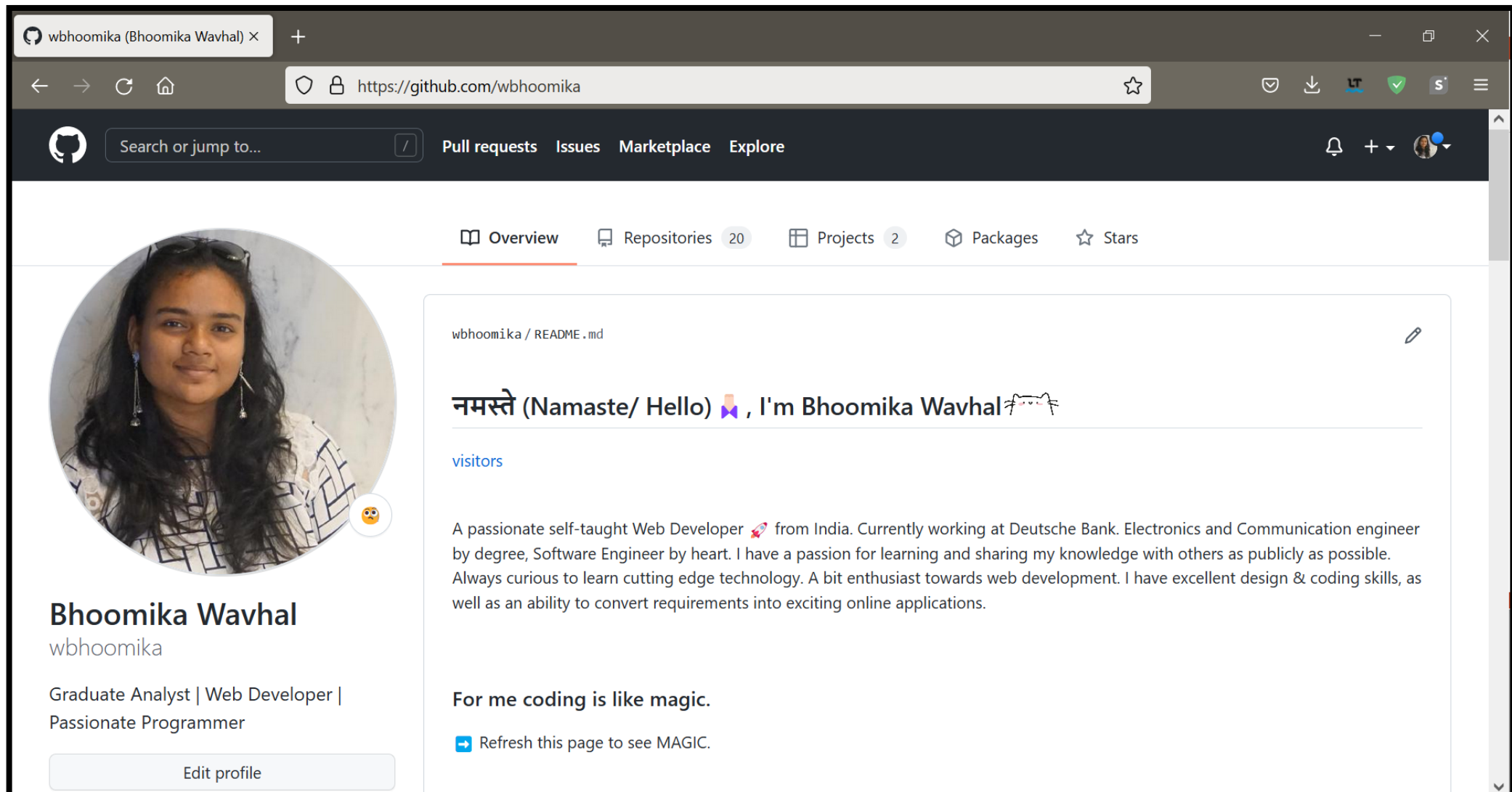
```
git config --global user.name "user1"
```

```
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



The screenshot shows a web browser window with the GitHub profile of user 'wbhoomika (Bhoomika Wavhal)'. The browser's address bar shows 'https://github.com/wbhoomika'. The GitHub navigation bar includes a search bar, 'Pull requests', 'Issues', 'Marketplace', and 'Explore'. The profile page features a circular profile picture of a woman, the name 'Bhoomika Wavhal', and the username 'wbhoomika'. Her bio describes her as a Graduate Analyst, Web Developer, and Passionate Programmer. The 'Overview' tab is active, showing a 'README.md' file with a greeting in Hindi and English, a list of visitors, and a bio paragraph. A 'For me coding is like magic.' message is also visible.

wbhoomika (Bhoomika Wavhal) ×

← → ↻ 🏠 🔒 https://github.com/wbhoomika

🐱 Search or jump to... / Pull requests Issues Marketplace Explore

🔔 + 👤

Bhoomika Wavhal
wbhoomika

Graduate Analyst | Web Developer |
Passionate Programmer

Edit profile

Overview Repositories 20 Projects 2 Packages Stars

wbhoomika / README.md

नमस्ते (Namaste/ Hello) 🙏 , I'm Bhoomika Wavhal 🌟

visitors

A passionate self-taught Web Developer 🚀 from India. Currently working at Deutsche Bank. Electronics and Communication engineer by degree, Software Engineer by heart. I have a passion for learning and sharing my knowledge with others as publicly as possible. Always curious to learn cutting edge technology. A bit enthusiast towards web development. I have excellent design & coding skills, as well as an ability to convert requirements into exciting online applications.

For me coding is like magic.

➡ Refresh this page to see MAGIC.

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 😊

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