TW-01 TEAM LEAD VERSION (Sprint-1 Week-2)

Meeting Agenda

▶ Icebreaking

▶ Questions

▶ Interview Questions

▶ Coffee Break

▶ Coding Challenge

▶ Video of the week

▶ Retro meeting

▶ Case study / project

Teamwork Schedule

Ice-breaking   10m

- Personal Questions (Stay at home & Corona, Study Environment, Kids etc.)
- Any challenges (Classes, Coding, studying, etc.)
- Ask how they're studying, give personal advice.
- Remind that practice makes perfect.

Ask Questions   15m

1. How can you check your current git version?

A. git --v
B. git --version
C. git --option
D. git --current

Answer: B

2. Which of the following command line environment is used for interacting with Git?

A. Git Bash
B. Git Hub
C. Git Boot
D. Git Lab

Answer: A

3. Which of these terms best describes Git?

A. Issue Tracking System
B. Integrated Development Environment
C. Distributed Version Control System
D. Web-Based Repository Hosting Service

Answer: C

4. Which of the following is true when you use the following command?

```
git add -A
```

A. All new and updated files are staged

B. Files are staged in alphabetical order

C. All new files are staged

D. Only updated files are staged

Answer: A

5. What option can you use to apply git configurations across your entire git environment?

A. --all

B. --master

C. --global

D. --update

Answer: C

6. If you cloned an existing git repository, what would happen?

A. A new copy would overwrite the central repository

B. A copy of the repository would be created on your local machine

C. Nothing, cloning is not a supported git function

D. A copy of the repository would be created on the hosting platform

Answer: B

7. Which command creates an empty Git repository in the specified directory?

A. git reset

B. git log ..

C. git init

D. git init --bare

Answer: C

8. Which of the following command helps to create directory called test?

A. mkdir test

B. md test

C. dir test

D. None of the above

Answer: A

9. Git Pull is a combination of:

A. fetch and merge
B. branch and checkout
C. add and commit
D. commit and pull

Answer: A

10. What is the command to add the remote repository "https://github.com/clarusway/prep.git" as "origin"?

A. git add origin https://github.com/clarusway/prep.git
B. git https://github.com/clarusway/prep.git
C. git remote add origin https://github.com/clarusway/prep.git
D. git remote https://github.com/clarusway/prep.git

Answer: C

11.What's the opposite of git clone, instead of downloading your code from GitHub, uploads your changes and code back to GitHub?

A. git push
B. git upload
C. git add
D. git status

Answer: A

12. Identify the command which is used to remove files?

A. delete
B. rm
C. dm
D. remove

Answer: B

13. What is the core of the Linux operating system?

A. Terminal
B. Kernel
C. Command
D. Bash

Answer: B

14. Identify the OS which is not based on Linux?

A. BSD
B. CentOS
C. Ubuntu
D. Red Hat

Answer: A

15. What command is used to display the contents of a file in the terminal?

A. ls
B. cat
C. mkdir
D. rm

Answer: B

Explanation: The cat command is used to display the contents of a file in the terminal. It is often used to view the contents of configuration files or log files.

16. What command is used to list the files and directories in the current working directory?

A. cd
B. ls
C. pwd
D. touch

Answer: B

Explanation: The ls command is used to list the files and directories in the current working directory. It can also be used to display file permissions and ownership.

17. What command is used to move a file or directory to a new location?

A. mv
B. cp
C. rm
D. chmod

Answer: A

Explanation: The mv command is used to move a file or directory to a new location. It can also be used to rename a file or directory.

18. What command is used to remove a file or directory?

A. rm
B. cp
C. mv
D. mkdir

Answer: A

Explanation: The rm command is used to remove a file or directory. It can also be used to remove multiple files or directories at once using wildcards. However, it is important to use this command with caution as it permanently deletes the specified files or directories.

Interview Questions   15m

1. What is Linux?

Answer: Linux is a UNIX based operating system. Linus Torvalds first introduced it. It is an open source operating system that was designed to provide free and a low-cost operating system for the computer users.

2. If you have saved a file in Linux. Later you wish to rename that file, what command is designed for it?

Answer: The 'mv' command is used to rename a file.

3. What is CLI?

Answer: CLI stands for Command Line Interface. It is an interface that allows users to type declarative commands to instruct the computer to perform operations.

4. Explain Agile in brief.

Answer: Agile is a popular set of methods and practices that majorly focuses on interactive development. Thanks to self-organizing collaborations between cross-functional teams, the requirements from their customers and potential solutions are obtained.

5. What are some important parts of the Agile process

Answer:

The different principles of Agile are:

1. Customer Satisfaction The needs of the customer need to be satisfied with the early and quick delivery of the product.

2. Welcome Changes Changing needs need to be addressed, even if they are brought in late in the development process.

3. Deliver Frequently Ensure frequent product delivery within a short timeframe, thanks to a clear cut understanding of the product.

4. Work Together Developers and other team members need to work together through in collaboration with the course of the project.

5. Motivated Team Motivated and driven individuals who are trusted to get the job done can ensure the success of the project.

6. Face-to-Face Conversations Having face-to-face conversations is proven as the most efficient method for communication.

7. Working Software This represents the primary measure of progress.

8. Constant Pace With a constant pace, the agile process enables optimum sustainable development.

9. Good Design By focusing on technical excellence and great design, the agility of the project can be improved drastically.

10. Simplicity The amount of time spent not doing work has to be minimized and simplified.

11. Self-Organized Self-organized teams provide the best architectures, requirements, and designs.

12. Reflect and Adjust The effectiveness of the Agile process can be improved by regularly reflecting on it.

Coding Challenge   15m

- Scenario: You are a developer working on a Linux-based project. You need to navigate the file system, create and delete directories, copy and move files.

Navigating the file system:

- Open a terminal and navigate to your home directory:
- *cd ~*
- List the contents of the current directory:
- *ls*
- Navigate to the "Documents" directory:
- *cd Documents*
- List the contents of the "Documents" directory:
- *ls -al*

Creating and deleting directories:

- Create a new directory named "project":
- *-mkdir project*
- Navigate to the "project" directory:
- *cd project*
- Create a new directory named "src":
- *mkdir src*
- Delete the "src" directory:
- *rmdir src // rm -rf src*

Copying and moving files:

- Create a new file named "main.c":
- *touch main.c*
- Copy the "main.c" file to the "src" directory:
- *cp main.c src/*
- Rename the "main.c" file to "app.c":
- *mv main.c app.c*
- Move the "app.c" file to the parent directory:
- *mv app.c ..*

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Coffee Break   10m

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Video of the Week   10m

- [A day in the life of a Google Software Engineer](#)

Case study/Project   15m

- [Git-CC-01 : Git Operations](#)

Retro Meeting on a personal and team level   10m

Ask the questions below:

- What went well?
- What could be improved?
- What will we commit to do better in the next week?

Closing   5m

-Next week's plan

-QA Session