

TRAINING DAY-14

REPORT:

02 July 2024

Keys Takeways:

1. Explored FCS (File Control System)

- **Objective:** To understand the basics of version control and explore functionalities of a file control system.
- **Activities:**
 - Learned the core concepts of version control such as commits, branches, and repositories.
 - Familiarized with common version control systems like Git.
 - Set up a local repository using Git and practiced basic commands like git init, git status, git add, git commit.

2. Forked a Website Repository

- **Objective:** To create a personal copy of a remote repository for independent development.
- **Activities:**
 - Visited a hosting service like GitHub.
 - Selected a repository to fork.
 - Used the "Fork" button on GitHub to create a copy of the repository under a personal account.
 - The forked repository was then available for modifications and personal contributions.

3. Cloned the Repository

- **Objective:** To make a local copy of the forked repository.
- **Activities:**
 - Used the command `git clone <repository_url>` to clone the forked repository to a local machine.
 - Verified that the repository was successfully cloned by checking the directory structure and files.

4. Pushed Changes to the Repository

- **Objective:** To upload local changes to the remote repository.
- **Activities:**
 - Made modifications to the cloned repository files. ◦ Used `git add <file>` to stage the changes.
 - Committed the changes with `git commit -m "message"`. ◦ Used `git push` to push the committed changes to the remote repository.

5. Pulled Updates from the Repository

- **Objective:** To fetch and merge changes from the remote repository.
- **Activities:**
 - Checked for updates in the remote repository using `git fetch`. ◦ Merged the fetched changes into the local repository using `git merge`.
 - Alternatively, used `git pull` to fetch and merge updates in one step.

6. Explored TOTP (Time-based One-Time Password)

- **Objective:** To understand the working and implementation of TOTP for enhancing security.
- **Activities:**
 - Learned about the TOTP algorithm and its reliance on time and shared secret keys.

- Explored popular TOTP apps like Google Authenticator, Authy, Microsoft Authenticator, LastPass Authenticator, and Duo Mobile.
- Set up TOTP for an online account:
 - Enabled 2FA in the account's security settings.
 - Scanned the provided QR code using a TOTP app to add the account.
 - Verified the setup by entering the generated TOTP code.
- Practiced using the TOTP code for logging in, ensuring familiarity with entering the code within the validity period.

