

TRAINING PROGRAM **DOCUMENTAION**

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NSSCE

CONTENTS

- Git & Git Hub
- Database
- Web Designing
- Agile Models

GIT & GIT HUB

Familiarized the basic Git and Git hub concepts. Learned about Git version control , Git commands and basics of Github website.

Had 2 sessions to learn about the topic.

Session 1: december 30 , 2023

Session 2; january 1 , 2024

In our recent series of sessions, we explored the fundamentals of version control, focusing on Git and GitHub. The first session introduced participants to Git, a distributed version control system, and GitHub, a platform for hosting and collaborating on Git repositories. We covered Git repository services, account creation, and how to work with repositories on GitHub.

The second session was more hands-on, demonstrating essential Git commands and explaining the typical Git workflow. We discussed commands like ``git init``, ``git clone``, ``git add``, ``git commit``, ``git push``, and ``git pull``. Additionally, we covered the concepts of pull requests and the differences between cloning and forking repositories.

Tasks creating a GitHub account, forming a repository, cloning a forked repository, creating a pull request, and committing changes. These tasks aimed to provide practical experience and enhance their understanding of using Git and GitHub for version control and collaborative development.

DATABASE

Learned about the fundamentals of database. Familiarized the structure and construction of ER Diagrams. Sessions were conducted in 2 sessions

We covered several key topics, including Database Fundamentals, Queries and Keys, PostgreSQL Basics, ER Diagrams, and Schema Conversion. In the first session, we discussed the fundamentals of databases, PostgreSQL, and the concepts of queries and keys.

In the subsequent session, we introduced ER diagrams and the process of converting ER diagrams into database schemas. This provided a foundation for understanding how to design and structure databases effectively.

Tasks: To create ER diagrams, set up PostgreSQL, and write queries for selecting, inserting, deleting, and updating data. These tasks aimed to reinforce the concepts discussed and give participants hands-on experience with database management.

WEB DESIGNING

Introduced the basic concepts of Web designing. Learnd about the tools used like HTML and CSS and applied it practically.conducted 2 sessions to learn the basic concepts.

We covered a range of topics including Web Designing Principles, HTML and Form Creation, CSS Styling, JavaScript Basics, JavaScript for Form Validation, an Introduction to React, and React for Form Creation.

In the first session, we received an introduction to web design, focusing on the foundational elements of HTML and CSS. These basics provided a strong grounding in creating and styling web pages.

The final session delved into JavaScript and React basics, emphasizing their use in form validation. Following these sessions, participants were assigned tasks to create a portfolio web page and complete an HTML and CSS project, allowing them to apply their newly acquired skills.

Task : create a portfolio web page and complete an HTML and CSS project, allowing them to apply their newly acquired skills.

AGILE MODELS

Introduced the concept Agile software development. Learned about various agile models and their uses.

In our Agile Software Development session, we covered the core principles and methodologies of Agile, including Scrum, Kanban, and Lean. Discussed on the benefits of Agile, such as improved product quality and faster delivery, were highlighted along with challenges like scaling and the need for cultural shifts.