

ReXcite

Event Title: ReXcite - Ignite Your Frontend Xperience with React

Objective:

An intensive front-end workshop crafted to empower participants with comprehensive proficiency and practical expertise in utilizing React and FastAPI for robust web development.

Aim:

Foster awareness and provide foundational training in front-end development.

Duration:

1 - hour for each class (CSE G1, CSE G2, CSE AI&ML)

Special Requirements:

1. Exemptions for organizers, especially from the CSE Department.
2. The event should be held in a location with power sources for personal computers.
3. Network connection is preferred but not mandatory.

Workshop Details:

SESSION	DURATION	TOPIC
Session 1	10 minutes	Why do front-end frameworks exist?
Session 2	10 minutes	What is React?
Session 3	10 minutes	Single Page Application and Components of React
Session 4	10 minutes	Setting up your first React project
Session 5	10 minutes	Introduction To FastAPI and JSX

Session details:

Day 1: Basic Introduction To React and FastAPI

Session 1: Why do Frontend frameworks exist?

Time period: 10 minutes

- Difference between frontend and backend.
- Different front-end frameworks in the market.
- Introduction to the MERN stack

Session 2: What is React?

Time period: 10 minutes

- History of React.
- React over others.
- Introduction to JSX.

Session 3: Single Page Application and Components of React

Time period: 10 minutes

- States in React.
- Props and Components in React.
- Declarative nature of React.

Session 4: Setting up your first React project

Time period: 10 minutes

- Installing React and other dependencies.
- Starting your first React project.
- Configuration of the environment.

Session 5: Introduction To FastAPI

Time period: 10 minutes

- Framework Basics and Features.
- Types of HTTP requests, Hello World App.
- Middleware and CORS Policies.
- Testing with POSTMAN.