

Logiciel de création site web

Semester 1: Advanced Front-End Development

Total Duration: 14 weeks

Split 1: Front End Development with Bootstrap

Duration: 7 weeks

Week 1: Bootstrap Overview

- Deep dive into Bootstrap components and utilities
- Responsive design using Bootstrap grid system

Week 2-3: Customizing Bootstrap

- Theming and custom styles
- Using SASS with Bootstrap

Week 4-5: Bootstrap JavaScript Components

- Incorporating JS components like Modals, Tabs, Carousel
- Creating interactive forms with validation

Week 6-7: Project

- Design and develop a multi-page responsive website
- Focus on UX/UI principles using Bootstrap

Split 2: Front End Development with React

Duration: 7 weeks

Week 8-9: React Components and State Management

- Advanced component architecture
- State management using Context API and Hooks

Week 10-11: Routing and Data Fetching

- Single Page Applications with React Router
- Fetching data from APIs and handling state with React

Week 12-13: Advanced React Patterns

- Higher Order Components and Render Props
- Utilizing React Portals and Fragments

Week 14: Capstone Project

- Develop a complex interactive application, such as a shopping cart or a social media feed

Semester 2: Progressive Web Applications and Advanced Topics

Total Duration: 14 weeks

Split 1: Front End Development with Next.js

Duration: 7 weeks

Week 1-2: Next.js Fundamentals

- Pages, routing, and APIs in Next.js
- Static Site Generation (SSG) and Server-Side Rendering (SSR)

Week 3-4: Next.js Features

- Image Optimization
- Internationalization and Localization

Week 5-6: SEO and Performance

- Optimizing Next.js apps for SEO
- Performance metrics and best practices

Week 7: Intermediate Project

- Create a marketing site or small e-commerce platform with Next.js

Split 2: Advanced Frontend Development with Next.js

Duration: 7 weeks

Week 8-9: State Management in Next.js

- Integrating Redux or Zustand for complex state scenarios
- Client-side vs. Server-side state management

Week 10-11: Authentication and Middleware

- Secure applications using NextAuth.js
- Exploring middleware for server-side logic in Next.js

Week 12-13: Deployment and Optimization

- Deploying and scaling Next.js applications
- Continuous integration and continuous deployment (CI/CD) workflows

Week 14: Capstone Project

- Design and develop a full-fledged application incorporating all learned techniques
- Focus on a real-world problem, integrating external APIs, authentication, and state management