Bytexl’s Guided Projects - Students’ User Guide

Build Job-Relevant Skill Sets by Developing Solutions to Practical Use Cases

Bytexl’s educators have created specialized guided projects so you can practice current technology languages/software such as Python, Java, Node.js, and more.

In about 2 hours, you can build a project enhancing your job-relevant skills as your educator guides you through a specially created hands-on experience available on Bytexl’s app.

INSTRUCTIONS FOR STUDENTS:

Project-Based Learning Course Overview

About the Project:

This project is designed to help students practice their coding and software development skills in a practical context. By working on this project, students will enhance their understanding of essential concepts such as frontend and backend development, local storage, user authentication, and more.

Prerequisites:

Basic understanding of HTML, CSS, JavaScript

Familiarity with local storage and session handling

Experience with frontend frameworks or vanilla JavaScript (for some projects)

What Will You Learn?

Understanding how to create dynamic web pages

Managing user login and authentication

Working with local storage for persistent data

Designing a user-friendly interface

Skills You Will Practice:

Frontend Web Development (HTML, CSS, JavaScript)

User Authentication Logic

Local Storage and Session Management

UI/UX Design Principles

Using the Nimbus Platform

How to Execute? Your Learning Platform:

Practice New Skills by Completing Job-Related Tasks: Follow the detailed, step-by-step instructions provided by your educator.

No Downloads or Installation Required: Access the tools directly through the Nimbus platform.

Available on Desktop or Laptop: This project cannot be developed on mobile phones. Make sure you have access to a computer with internet connectivity.

Use Nimbus on Bytexl’s Platform:

Learn, Practice, and Enhance Job-Relevant Skills in Just 20 Hours: This will help you gain hands-on experience in real-world use cases.

Receive Detailed Instructions from Instructors: The educator will guide you through the project with clear and detailed instructions.

Gain Confidence with Solutions Developed on Nimbus: The project will be built using the latest tools and technologies, ensuring you stay up to date with industry standards.

Learn Step-by-Step:

In this guided project, your educator will walk you through the process of completing the project in 3 hours.

**Structure for Educators:**

How to Create the Use Cases for Students to Practice?

Instructions:

Welcome to institute management app! This is a guided project that will take approximately 20 hours to complete. Below are the course objectives and structure.

Course Objectives: In this project, we will focus on the following objectives:

[Objective 1: e.g., Building a Dynamic Web Page]

[Objective 2: e.g., Understanding Local Storage and User Authentication]

[Objective 3: e.g., Enhancing UI/UX Design Principles]

By the end of this project, you will be able to:

[Outcome 1: e.g., Create a login system with session management]

[Outcome 2: e.g., Store and retrieve data using local storage]

[Outcome 3: e.g., Create a responsive, user-friendly interface]

You will deploy the project on the Nimbus Platform using the following tools:

HTML, CSS, JavaScript

Nimbus platform tools (text editor, browser-based tools, etc.)

Course Structure:

This course is divided into 3 parts:

Course Overview:

Introductory reading material to explain the concepts involved in this project.

Project Structure:

Hands-on project tasks designed to help you practice and apply what you’ve learned.

Project Tasks:

Task 1: [Description of Task 1, e.g., Set up the basic structure of a web page.]

Task 2: [Description of Task 2, e.g., Create a login form with JavaScript validation.]

Task 3: [Description of Task 3, e.g., Implement local storage for saving user data.]

Task 4: [Description of Task 4, e.g., Design a responsive user interface.]

Meet Your Educator:

JUHI DARJI

Educator at bytexl

About the Nimbus Platform and Tools Required for This Project:

Nimbus Platform Overview: Nimbus is a powerful web-based platform designed to help students and professionals enhance their job-relevant skills. It provides an easy-to-use interface and a wide range of tools for project development.

Tools Used:

HTML Editor (for writing code)

CSS Styling Tools (for designing user interfaces)

JavaScript for dynamic functionality

Local Storage Management Tools

Expected Outcomes:

By completing this project, you should be able to:

Build dynamic, interactive web pages.

Implement basic user authentication systems.

Utilize local storage to store user data securely.

Create responsive and visually appealing user interfaces.

Quiz Questions:

Include 5 multiple-choice questions with answers highlighted.

What is used to store data locally in a user's browser?

A) SessionStorage

B) LocalStorage

C) Cookies

D) WebSQL

Correct Answer: B) LocalStorage

Which JavaScript method is used to retrieve data from local storage?

A) localStorage.getItem()

B) localStorage.setItem()

C) localStorage.removeItem()

D) localStorage.clear()

Correct Answer: A) localStorage.getItem()

Which tag is used for creating a form in HTML?

A) <form>

B) <input>

C) <button>

D) <div>

Correct Answer: A) <form>

What does CSS stand for?

A) Creative Style Sheets

B) Cascading Style Sheets

C) Computer Style Sheets

D) Central Style Sheets

Correct Answer: B) Cascading Style Sheets

Which tool is used to write JavaScript code in this project?

A) Nimbus

B) Visual Studio

C) Sublime Text

D) Eclipse

Correct Answer: A) Nimbus

Earn a Certificate:

After completing the [Title of the Project] hands-on project, you should:

Upload your code to be assessed.

Complete the quiz to assess your knowledge.

You will earn a certificate if you score 80% or more.