**Bytexl’s guided projects**

**Students’ User Guide**

Build job relevant skill sets by developing solutions to practical use cases

Bytexl’s educators have created specialised guided projects so you can practice current technology languages / softwares such as MERN

In about 35 Hours, you can build a project enhancing your job relevant skills as your educator guides through with a specially created hands-on experience available on Bytexl’s app.

INSTRUCTIONS FOR STUDENTS:

Project based learning course overview:

**User Guide for Student-Recruiter(GradConnect) Connection Platform**

**Project Overview**

This guide will help you set up and run the Student-Recruiter Connection Platform, a MERN stack application with a Node.js backend and React frontend.

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**1. Prerequisites**

Ensure the following software is installed on your machine:

* **Node.js** (v14.x or later)
* **npm** (v6.x or later) or **Yarn** (v1.x or later)
* **MongoDB** (installed locally or using a cloud provider like MongoDB Atlas)

**2. Environment Variables Setup**

Create a .env file in the root directories of both the backend and frontend, and add the necessary environment variables.

**Backend (.env)**

* PORT=5000 //changable
* MONGO\_URI=your\_mongo\_db\_connection\_string
* JWT\_SECRET=your\_jwt\_secret\_key
* NODE\_ENV=development

**Frontend (.env)**

* REACT\_APP\_BACKEND\_URL=[http://localhost:5000](http://localhost:5000/)
* REACT\_APP\_API\_KEY=your\_frontend\_specific\_api\_key\_if\_any

**3.Installation**

* git clone <https://github.com/your-repo/byteXL-platform.git>
* cd byteXL-platform
* cd backend
* npm install
* cd ../frontend
* npm install
* npm start
* npm start

```│

```├── backend/ # Node.js and Express backend

```│ ├── config/ # Configuration files (e.g., database, JWT)

```│ ├── controllers/ # Controller logic for handling routes

```│ ├── models/ # Mongoose models for MongoDB collections

```│ ├── routes/ # API routes

```│ └── server.js # Entry point for the backend server

```│

```└── frontend/ # React frontend

``` ├── src/

``` │ ├── src/ # Reusable components

``` │ ├── pages/ # Pages for different views

``` │ ├── utils/ # Utility functions

``` │ └── App.js # Main app component

``` └── public/ # Public assets and files

What will you learn?:

Skills you will practice:

How to execute? Your learning platform:

Practice new skills by completing job-related tasks

No downloads or installation required. Use your Nimbus access to access all the tools.

Practice on your desktop or laptop. This cannot be developed on your mobile phones.

Use Nimbus on Bytexl’s platform:

Learn, practice and enhance job relevant skills in just 20 hours

* + - * + Receive detailed instructions from instructors
        + Gain hands-on experience solving real-world case studies
        + Enhance your confidence with solutions developed on Nimbus using the latest tools and technologies

Learn step-by-step:

In this guided project, you will find your educator giving you a walk-through to complete your project in 35 hours.

Structure for educators:

How to create the use cases for students to practice?

Instructions:

Welcome to GradConnect. This is a guided project which will take about 20 hours to complete.

Here are the course objectives and structure:

Course Objectives:

In this project we will focus on the following objectives:

By the end of this project you will be able to Create a web sites with multiple roles . You will be able to handle the complex data integration as well the complex data flow and many More You will deploy the project on the Nimbus Platform using ByteXl and Git Bash tools / platforms

Course Structure:

This course is divided into 3 parts:

Front End Development of UI design

Backend development

Database integrations

Project structure:

The hands on project on Grad Connect  is divided into following tasks:

Task 1: Clone the project in your local system according to the user guide

Task 2: install required dependencies

Task 3: add database Uri

Task 4: start running the project and customize it according to you

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Meet your educator:

Hi I am **Jeet Kumar Jha** and I will be your instructor for your course. I have about 3 Year of experience in WEB Development. I have worked in TCS , Techademy etc. I also work with different business organizations for there individual project on web development . I have a Bachelor’s degree in Computer Science and Engineering . Apart form these I have my own Freelancing Business in Software Domain . When I am not teaching I use to enjoy and interact with my older code for learning something ,more.

Welcome to the Guided Project!

Earn a Certificate: After you have completed the **GradConnect** hands-on project, you should

upload your code for it to be assessed

complete the Quiz to assess your knowledge.

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