

# Project One: ABCollege Course Portal

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This project was developed for ABCollege to give school administrators a web interface for managing the courses they offered. They have provided the back end server and database.

## Database

There are two tables that was used, one for user verification and the other contains details about the courses offered.

## Server

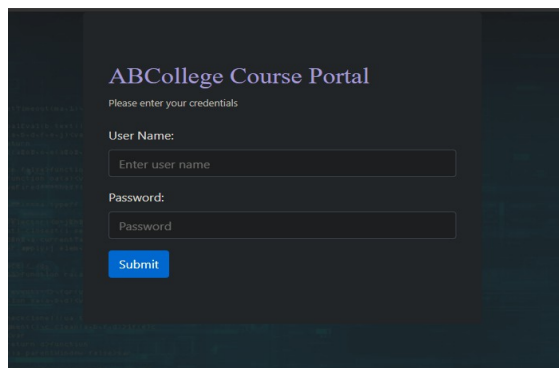
The server provided us with different routes in order to access the database. For more details on the routes please see ABCollege Student Portal

## Technologies used for Back End:

- **Node JS** – It is an open source run time for JavaScript that runs on a V8 engine. This allows the program to communicate with back-end.
  - Node Packages:
    - Express
    - Express -sessions
    - jest
    - nodemon
    - router
    - super test
    - fs for logs
  - **Express JS** – Is a framework for JavaScript mainly to develop web or mobile applications.
  - **Jest** – It is an open source Framework maintained by Facebook to test JavaScript.
  - **PostgreSQL** – Open source relational database. It is considered as the most advanced database system.
  - **JavaScript/TypeScript** – Java script as a front end more interactive while JavaScript as a backend enables the program to communicate with the server. TypeScript is a super set of JavaScript.
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## ABCollege Course Portal

Upon visiting the site, you will be presented by a log-in page, only authorized users are allowed to access the courses portal

The image shows a login page for the ABCollege Course Portal. The page has a dark blue background with a lighter blue rectangular area in the center containing the login form. At the top of the form, it says "ABCollege Course Portal" in a light blue font. Below that, in a smaller font, it says "Please enter your credentials". There are two input fields: "User Name:" and "Password:". The "User Name:" field has a placeholder text "Enter user name". The "Password:" field has a placeholder text "Password". Below the input fields is a blue button with the text "Submit" in white.

After login you will be redirected to the welcome page

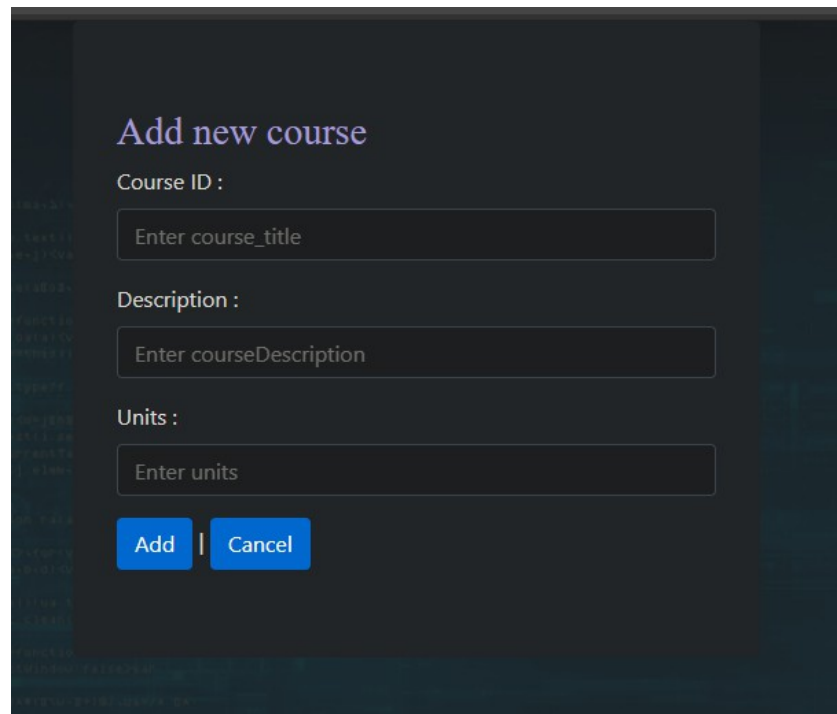


next, click on the "Go to Course Page" button to manage the course list. Alternatively, you can click in the courses link on the upper right of the page. Both will redirect you to the Courses Page

Courses Page		
<a href="#">Add Course</a>   <a href="#">Edit Course</a>   <a href="#">Delete Course</a>		
Course Code	Description	Units
ALG	Algebra	3
CHM	Chemistry	4
PE	Physical Education	5
PHY	Physics	3
TRI	Trigonometry	5
HIS	History	2
ECON	Economics	2
MSC	Music	1
ENG	English 4	4
DPL	deep learns	4
NN	Newral Nets	4
SCI	Sciencey Stuff	6

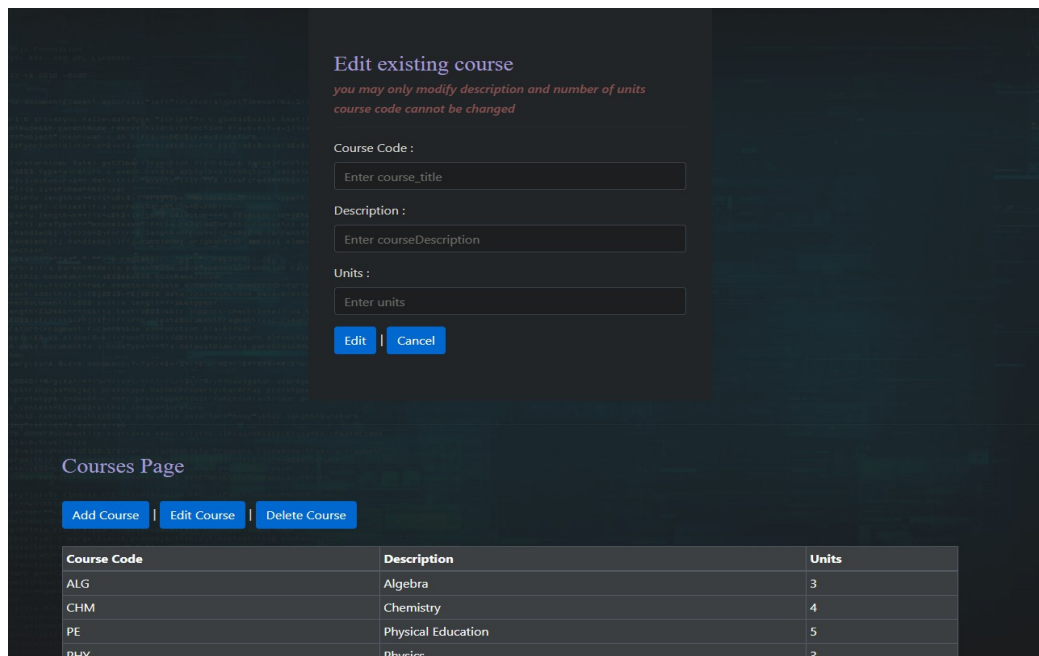
In the Courses page, you can view the list of courses offered and their respective course code, description, and number of units.

To add a new course click on the “Add Course” button. The user will be presented with a form to fill in:



The image shows a modal form titled "Add new course". It contains three input fields: "Course ID :" with a placeholder "Enter course\_title", "Description :" with a placeholder "Enter courseDescription", and "Units :" with a placeholder "Enter units". At the bottom of the form are two buttons: "Add" and "Cancel".

To edit an existing course, click on the edit course button. You can only edit the Description and Units fields as the Course Code is the unique identifier. The course list is shown below so the user has reference on the course codes.

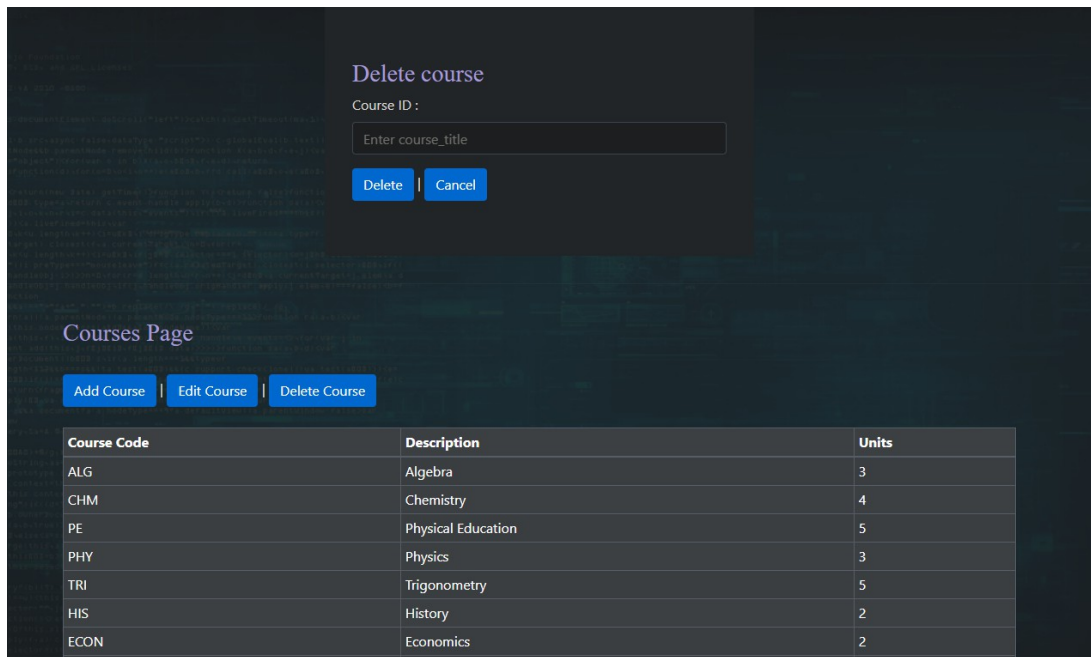


The image shows a modal form titled "Edit existing course" with a warning message: "you may only modify description and number of units course code cannot be changed". It contains three input fields: "Course Code :" with a placeholder "Enter course\_title", "Description :" with a placeholder "Enter courseDescription", and "Units :" with a placeholder "Enter units". At the bottom of the form are two buttons: "Edit" and "Cancel".

Below the form is a section titled "Courses Page" with three buttons: "Add Course", "Edit Course", and "Delete Course".

Course Code	Description	Units
ALG	Algebra	3
CHM	Chemistry	4
PE	Physical Education	5
PHY	Physics	3

To delete a course, click on the “Delete Course” button. Enter the Course ID and it will be deleted from the Course List.



## Technologies used for Front End:

- JavaScript-React
- Jest
- Enzyme
- Bootstrap