



# DEPI Final Project



# WE OWN THE FUTURE



## زيارة الاتصالات وتقنوه في المعلمات



# Team Names



Ziad Essam Abdelaziz  
AbdelMoula



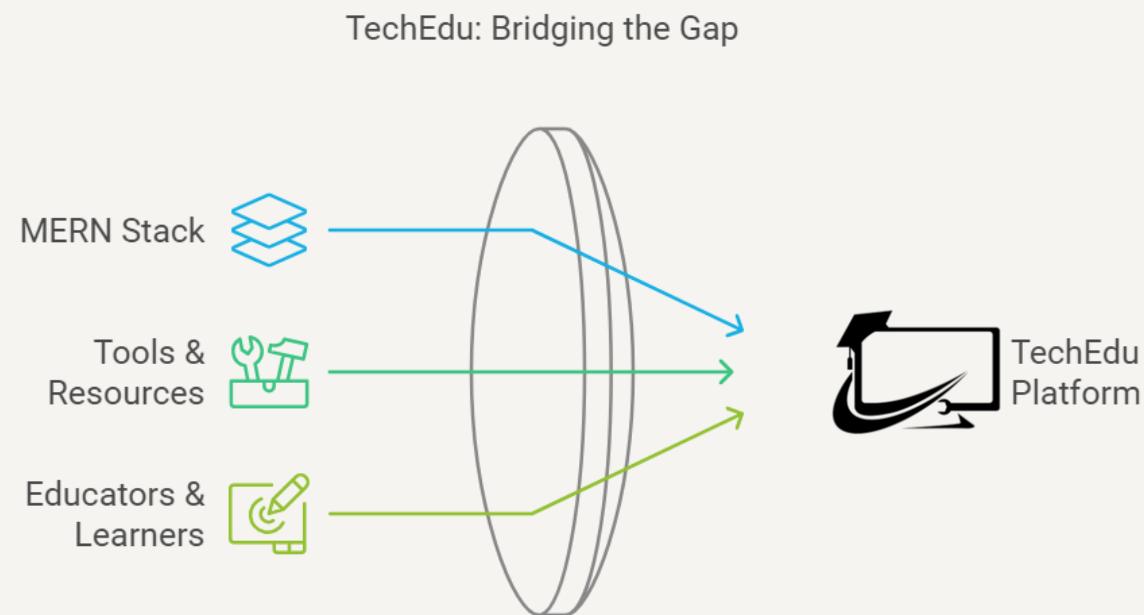
Karim Hazem Hamed  
Mohamed

# Table Of Content

- Brief overview of TechEdu
- Technologies Used.
- Audience and Stakeholders
- TechEdu Sequence
- Functional and Non-Functional Requirements
- TechEdu Use cases
- System Architecture
- Design of Each Building Block
- Implementation
- Go And Show

# Brief overview of TechEdu

- TechEdu is an online education platform designed to facilitate learning and teaching across a variety of disciplines. It leverages the MERN stack (MongoDB, Express.js, React.js, Node.js) to deliver a seamless and interactive user experience. The platform aims to bridge the gap between educators and learners by providing a comprehensive suite of tools and resources

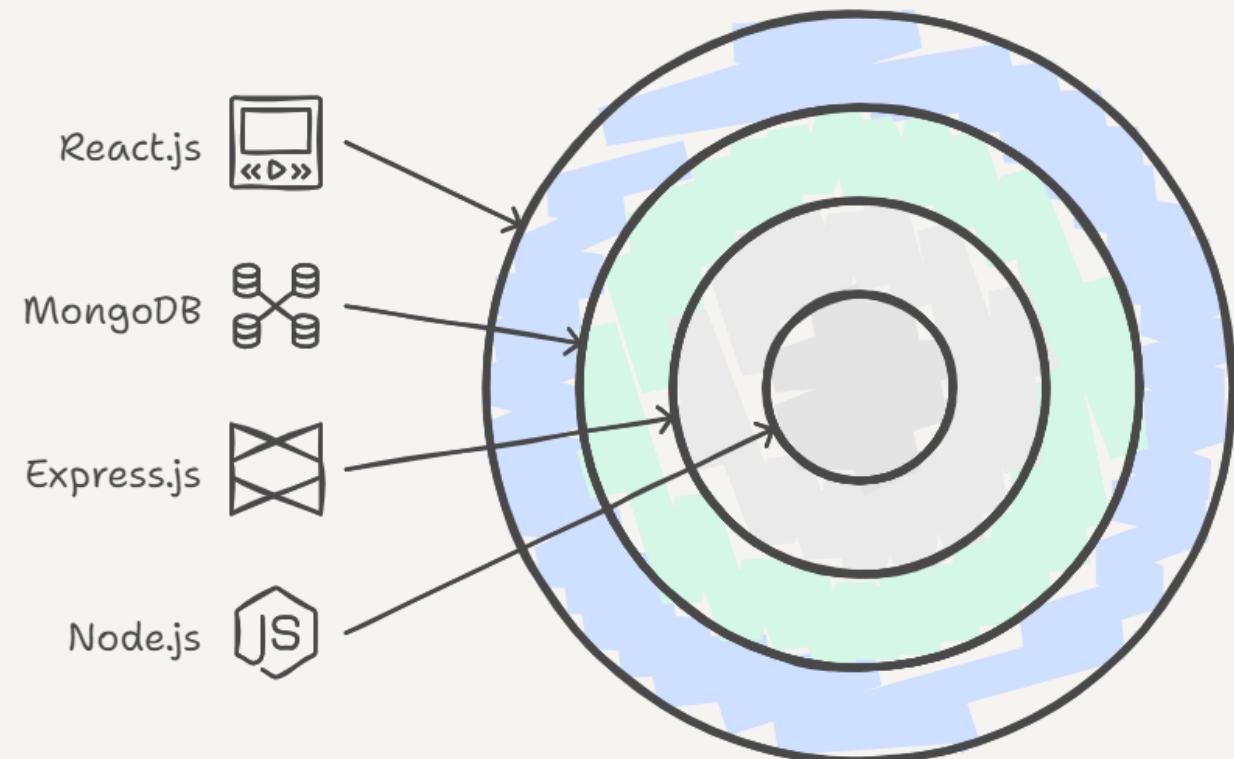


# Technologies Used

TechEdu is built using the following technologies:

- React.js: For frontend development.
- MongoDB: For database management.
- Express.js: For backend framework.
- Node.js: For server-side runtime.

**TechEdu Technology Stack**



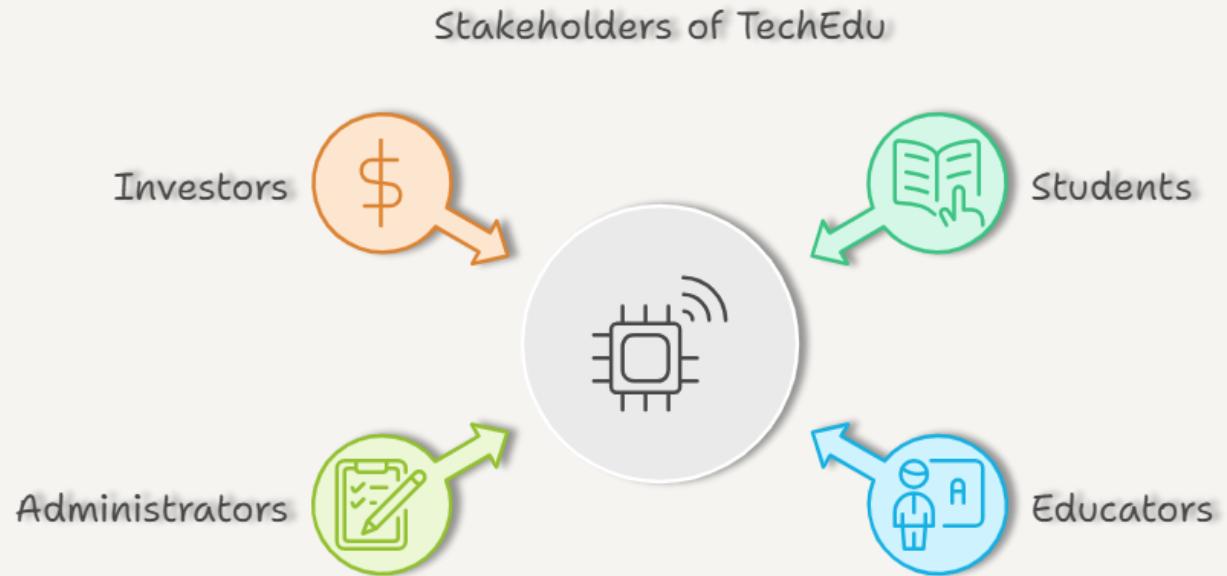
# Audience and Stakeholders

**Students:** Individuals seeking to learn new skills and knowledge.

**Educators:** Professionals creating and managing educational content.

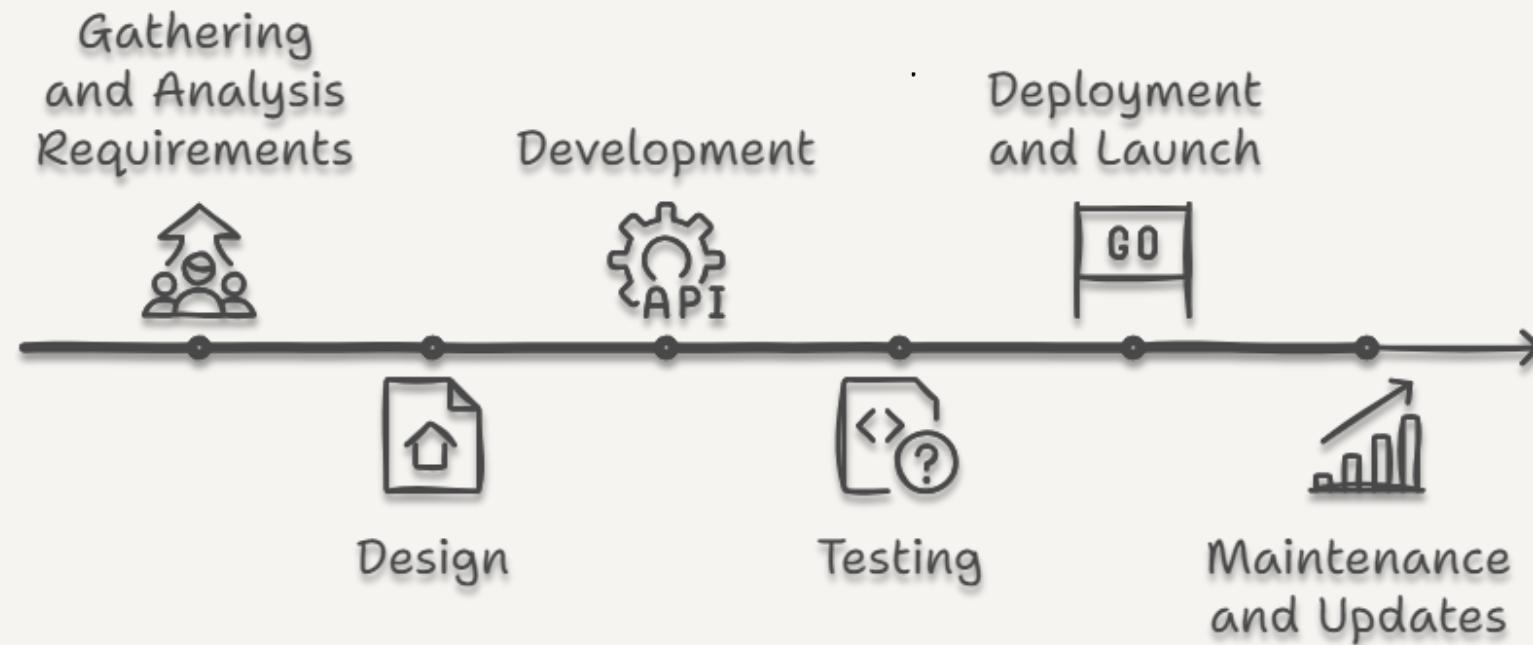
**Administrators:** Users overseeing the platform's operations and maintenance.

**Investors:** Parties interested in the development and success of the platform.

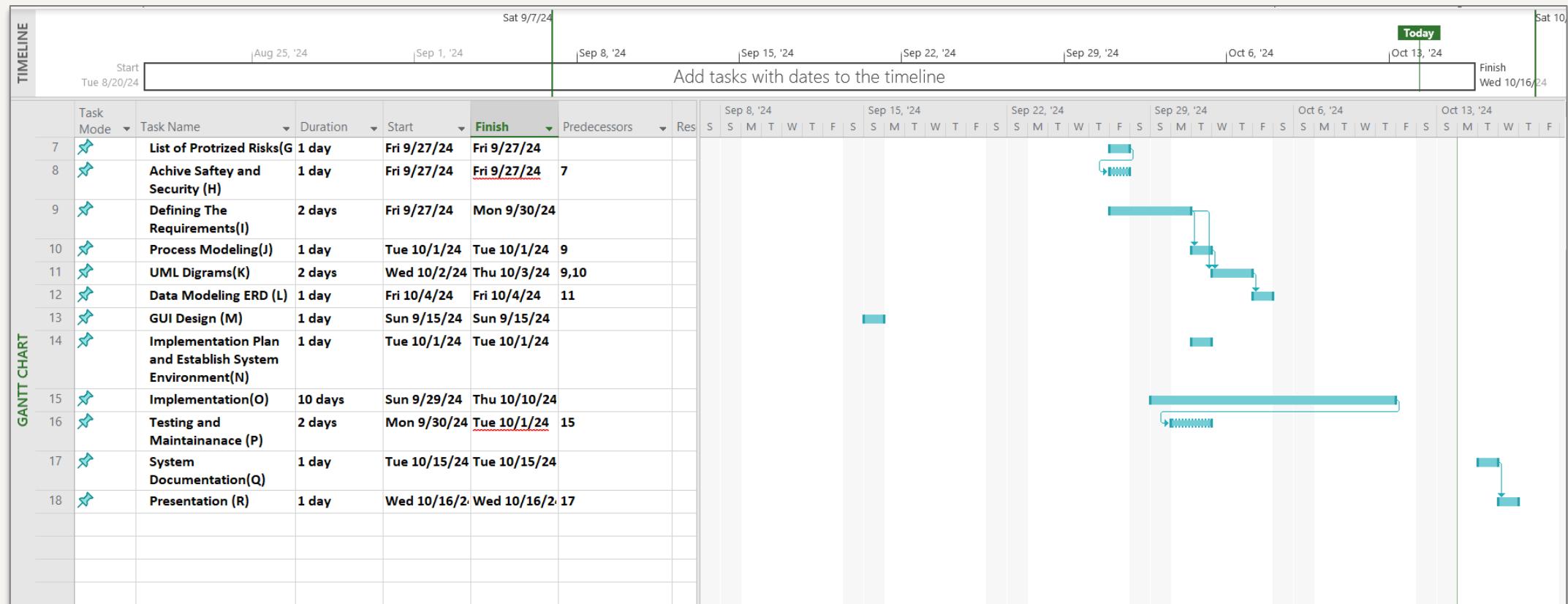


# TechEdu Sequence

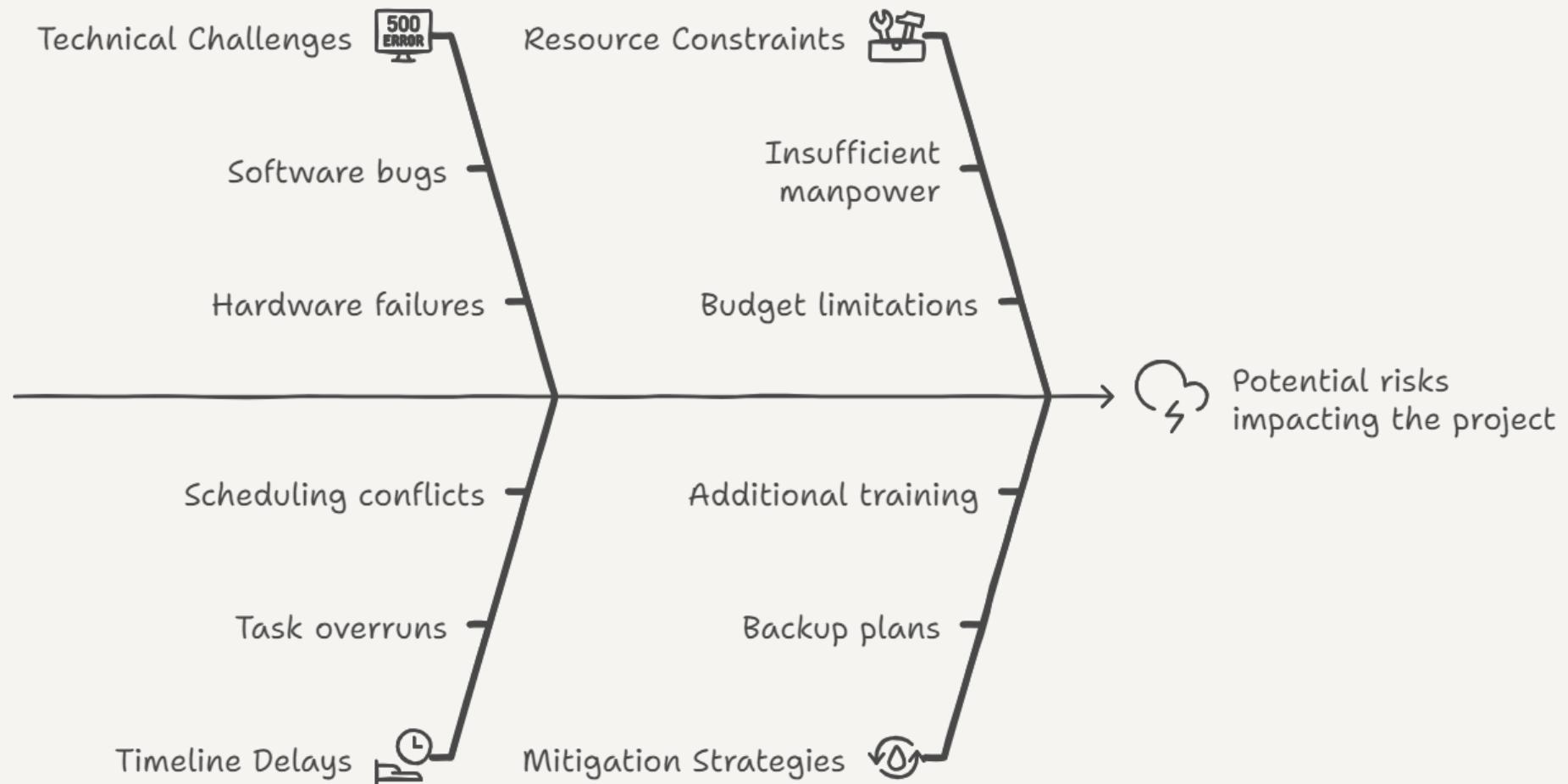
## Project Timeline Sequence



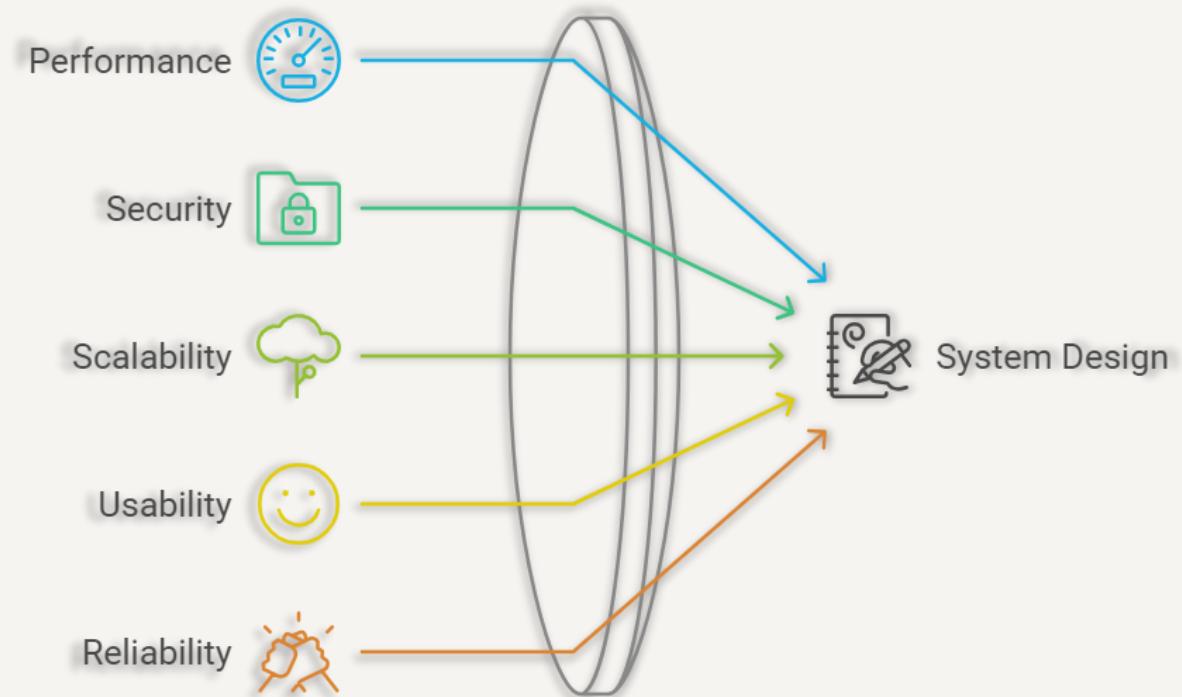
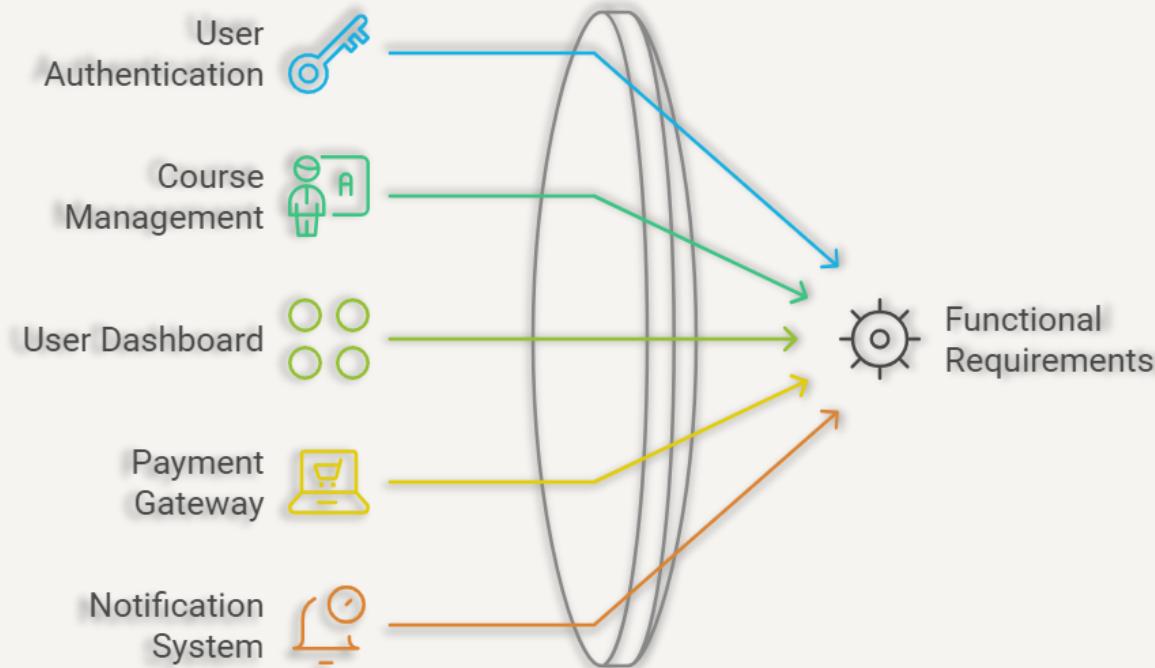
# TechEdu Sequence



# TechEdu Sequence



# Functional and Non- Functional Requirements

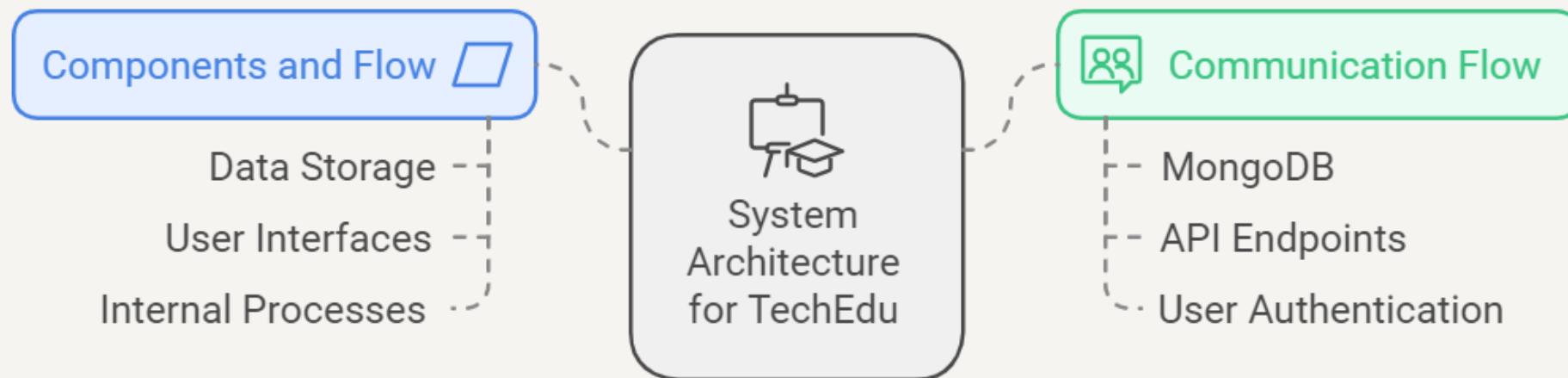


# TechEdu Use cases

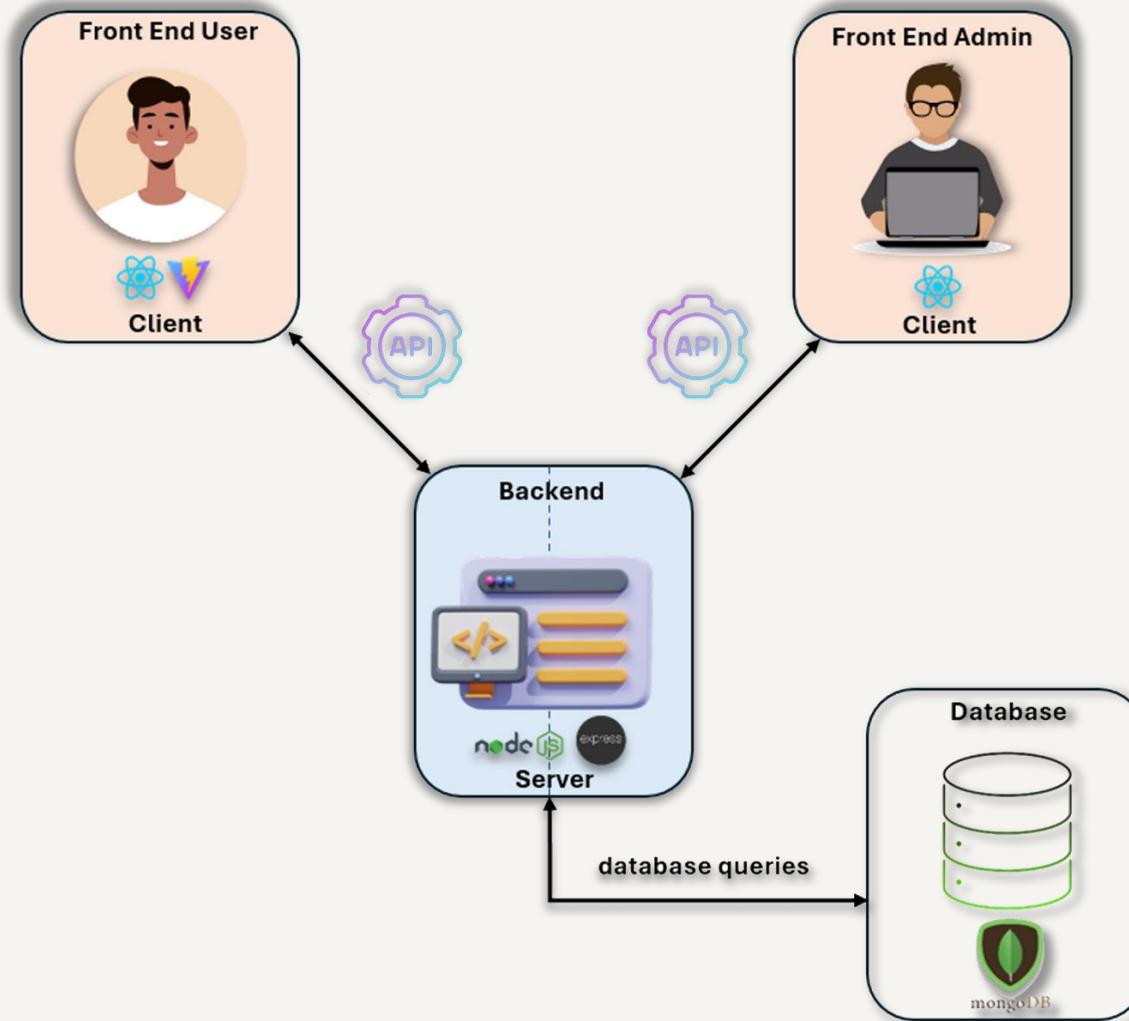


# System Architecture

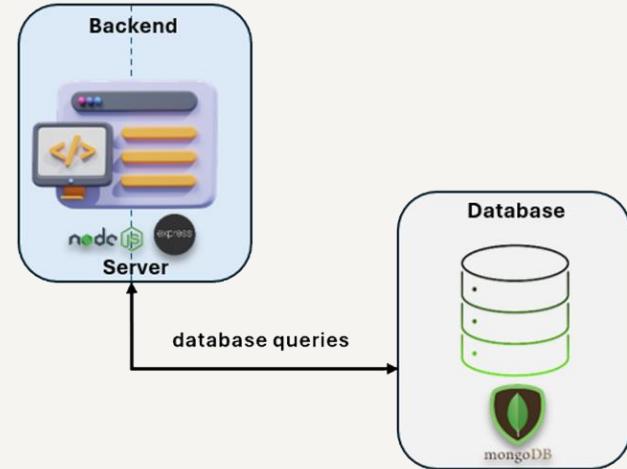
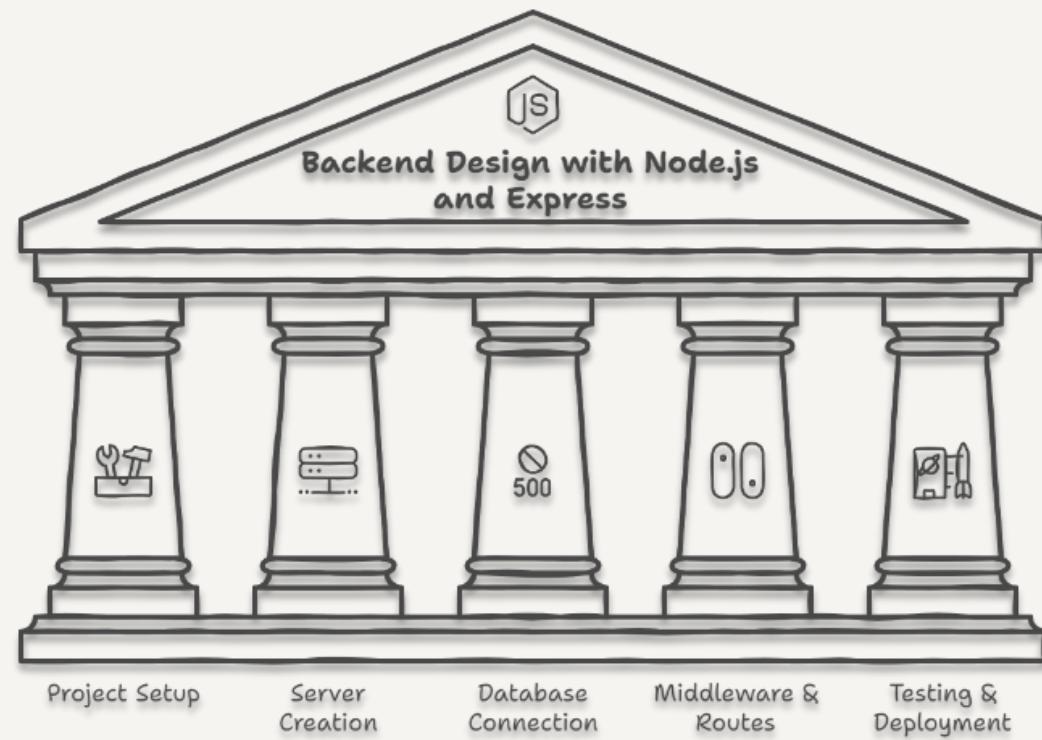
- System Architecture for TechEdu built from two things Components and Flow and communication flow



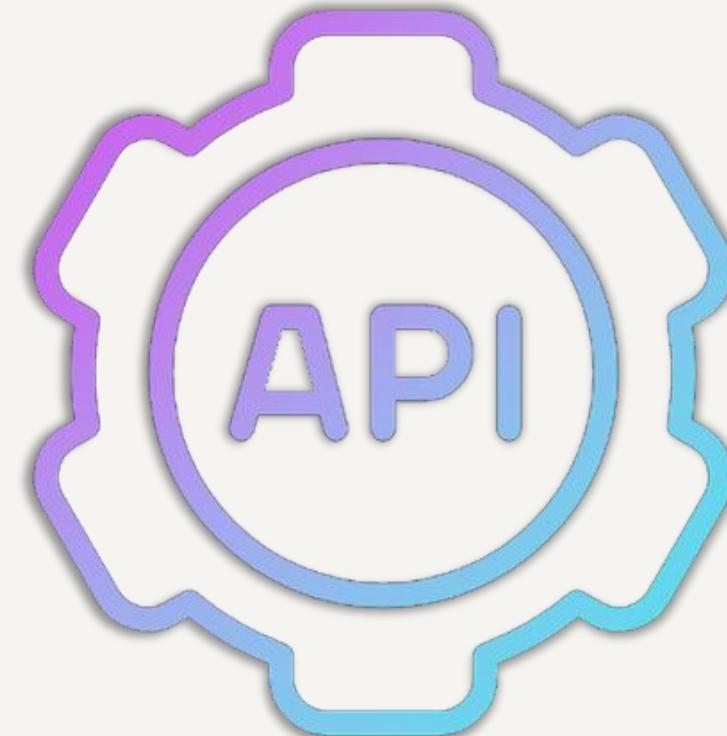
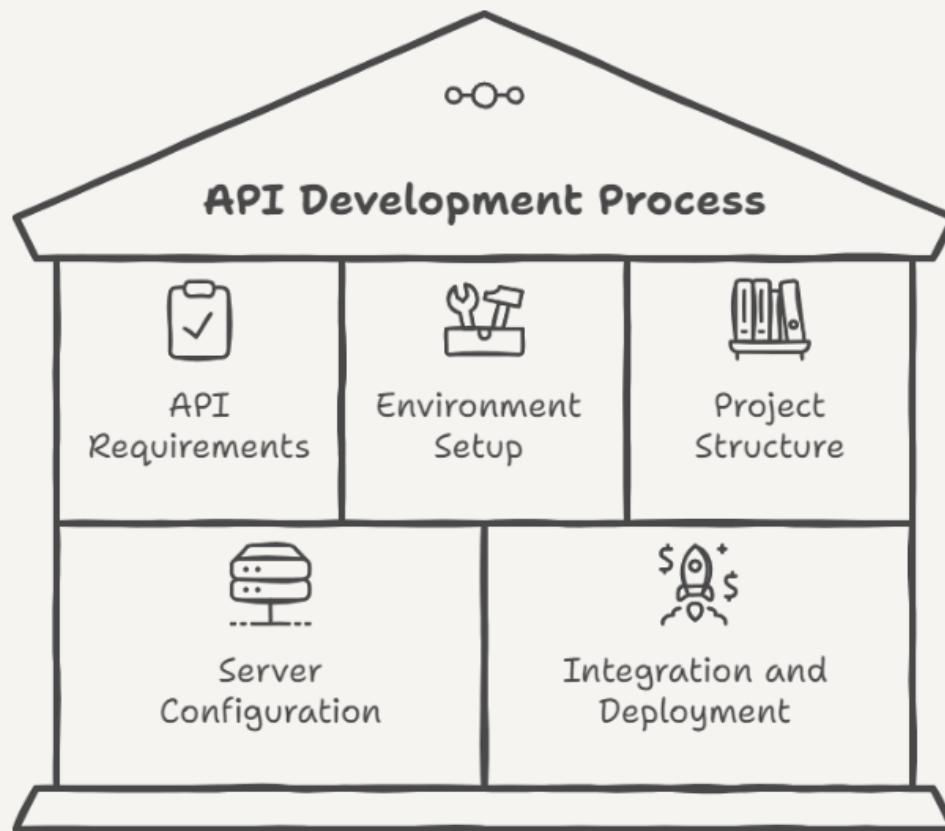
# System Architecture



# Design of Each Building Block

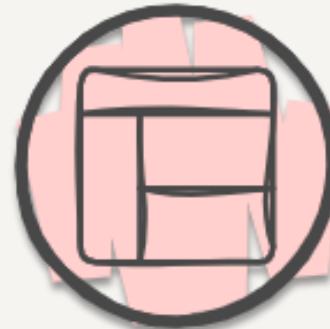


# Design of Each Building Block



# Design of Each Building Block

## User and Admin



**User Frontend**

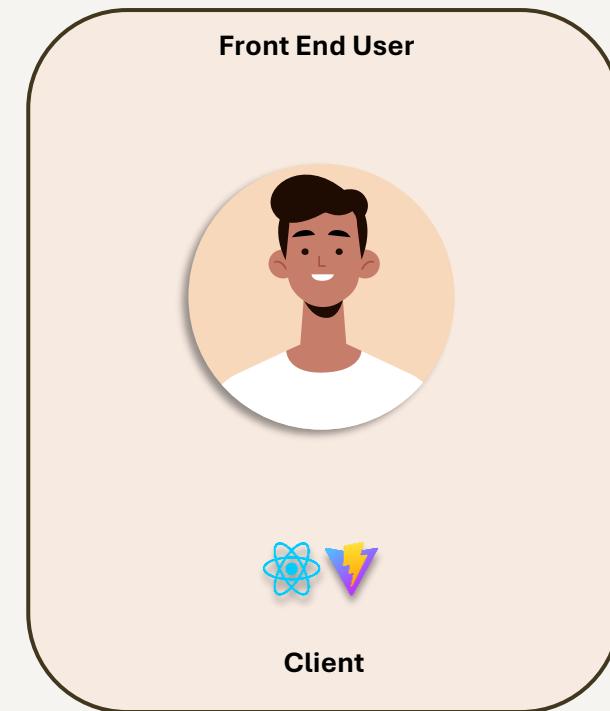
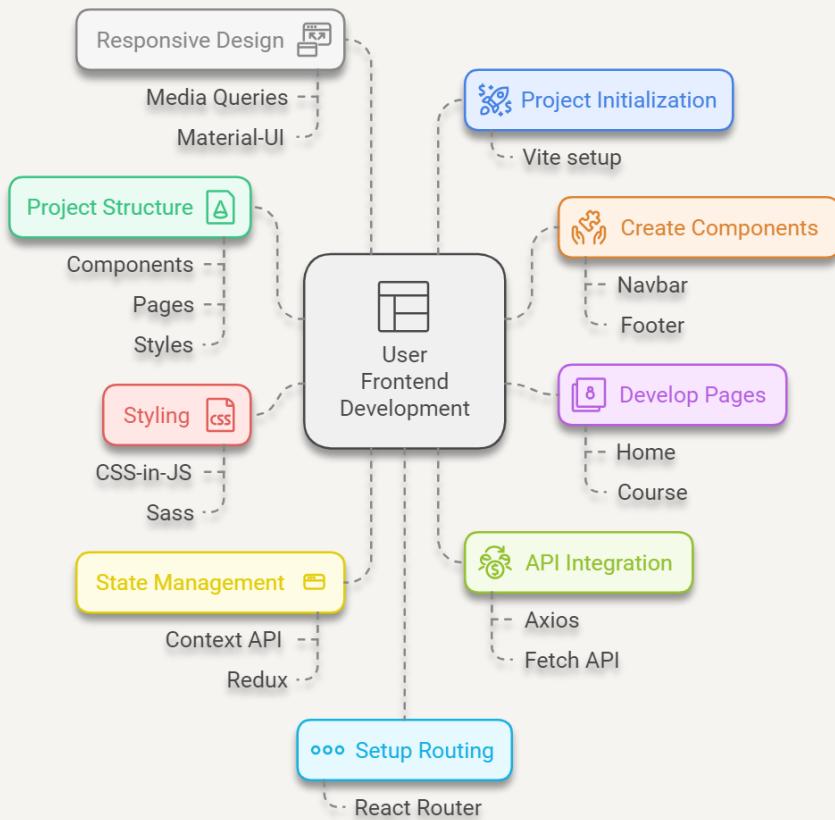
Seamless user experience



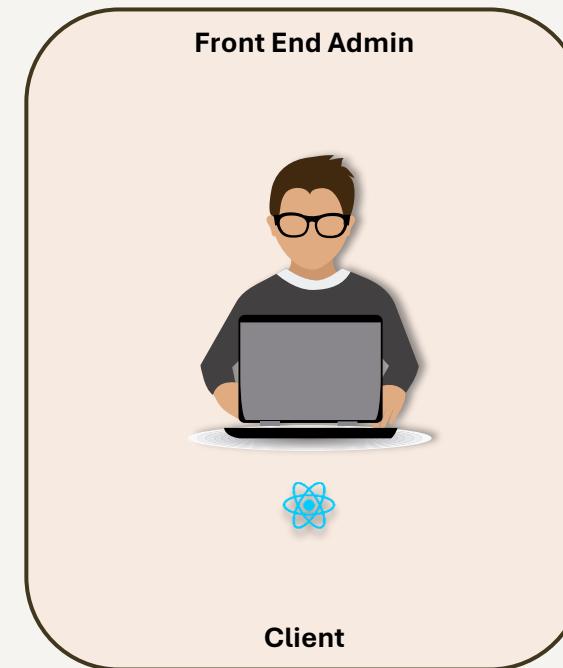
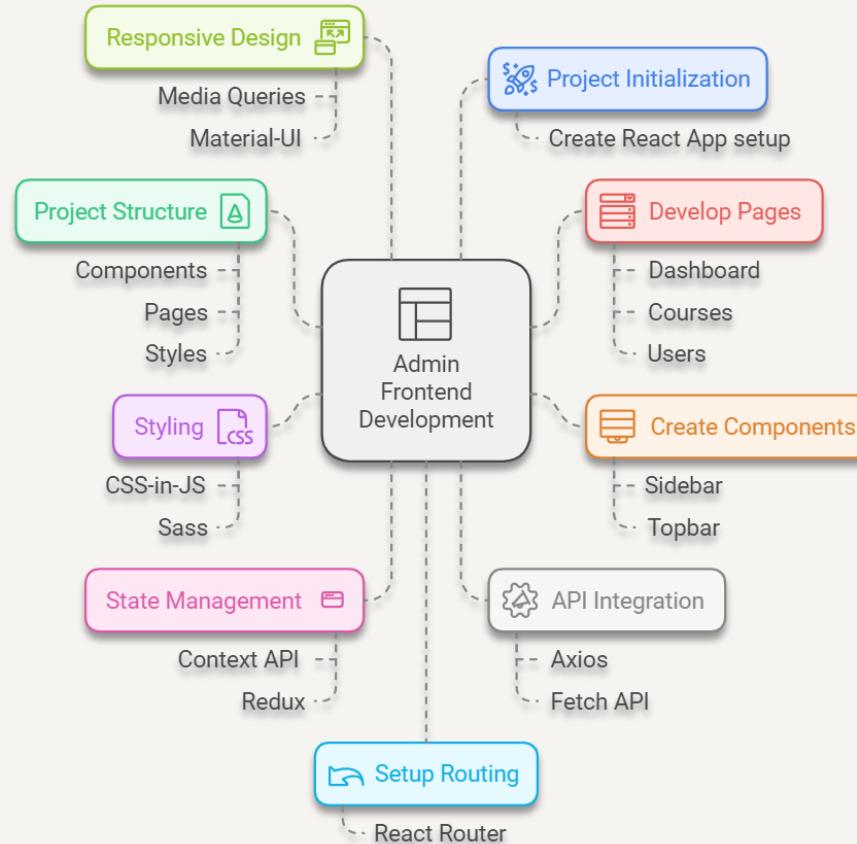
**Admin Frontend**

Efficient course management

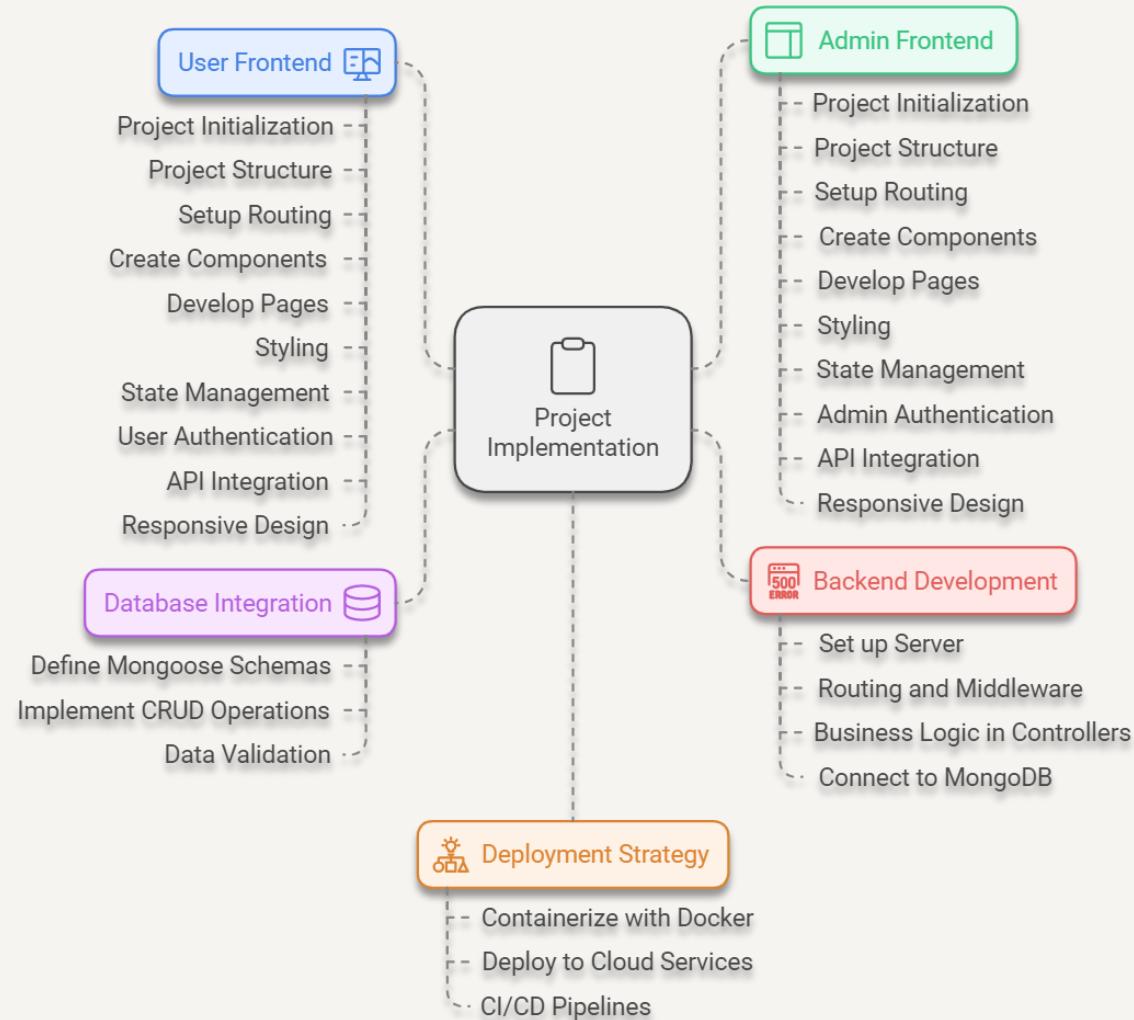
# Design of Each Building Block



# Design of Each Building Block



# Implementation



# Go And Show

- Let's go and show the user and admin website after done



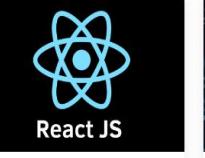
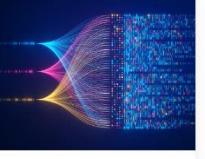
# Go And Show



The image shows a screenshot of the TechEdu website homepage. The header features the TechEdu logo with a graduation cap icon, followed by navigation links for Home, About, Contact, Courses, a search bar, and a login button. Below the header, the main content area has a large yellow title "TechEdu" and "We Own The Future". A subtext line reads "An Integrated Platform That has EveryThing a Student Needs To Succeed". A prominent yellow "Register Now" button is centered below the subtext. To the right of the text area is a large, stylized illustration of a graduation cap resting on a desk, surrounded by books, a laptop, headphones, and a speech bubble icon. The entire website is presented within a dark grey rectangular frame.

# Go And Show

### Top Watched Courses

 <b>5G</b> the fifth generation of wireless cellular technology companies used in 2019. <b>\$450</b>	 <b>AI</b> a machine's ability to perform the cognitive functions we associate with human minds <b>\$800</b>	 <b>IOT</b> a network of interrelated devices that connect and exchange data <b>\$600</b>	 <b>Node Js</b> an Open Source, cross-platform runtime environment for executing JavaScript code. <b>\$650</b>	 <b>React JS</b> a free and open-source front-end JavaScript based on components <b>\$700</b>	 <b>Machine Learning</b> branch of AI and computer science that focuses on the using data and algorithms <b>\$900</b>
 <b>Deep Learning</b> a subset of machine learning that uses multilayered neural networks <b>\$1000</b>	 <b>Data Science</b> an umbrella term for all aspects of data processing <b>\$600</b>	<a href="#">View Courses</a>			

# Go And Show

 TechEdu

Home About Contact Courses Search... Login

About

## Our Vision

We envision a world where anyone, anywhere has the power to transform their lives through learning.

## We Believe

Learning Is The Source Of Human Progress.

**+300 World-class partners are teaching the world.**

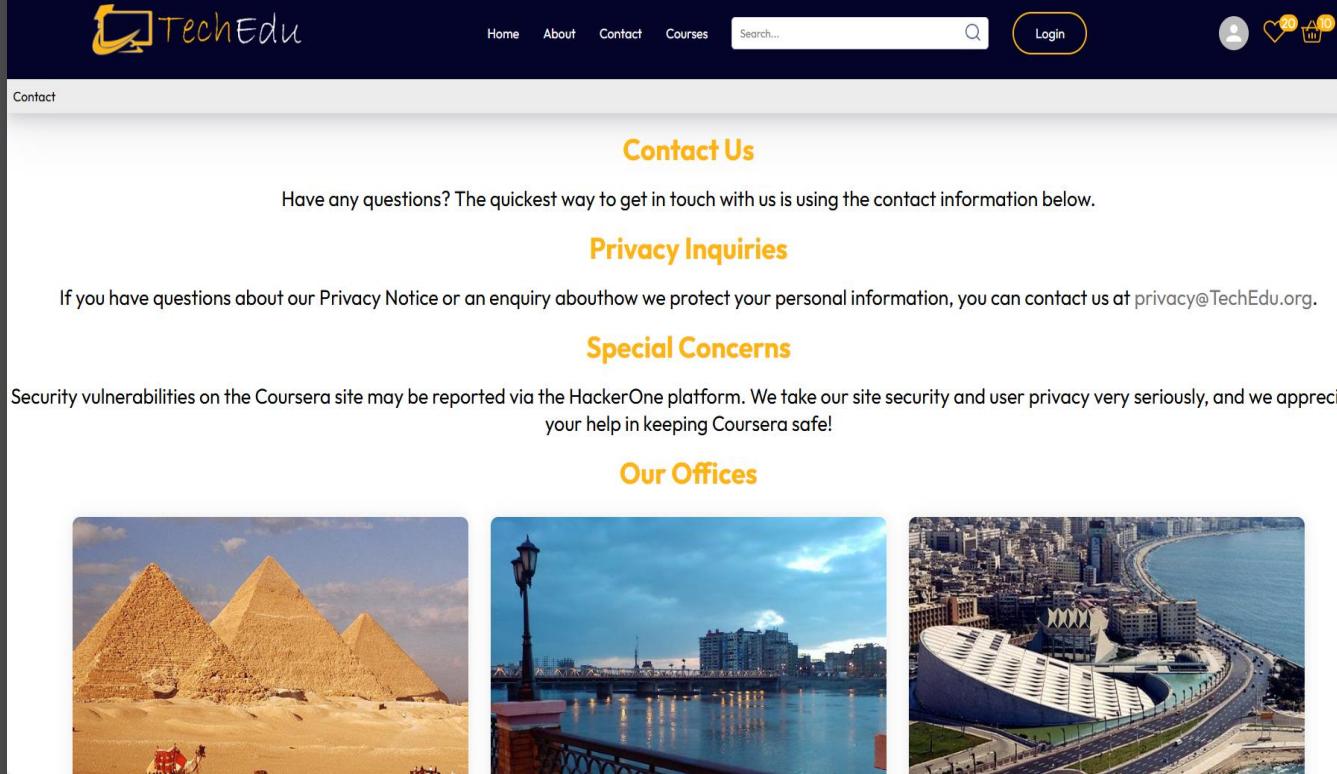
TechEdu has truly helped to democratize education. I was born in Trinidad and Tobago, and I have lived in Jamaica and the United States. I have received emails from students in all three locations who have taken my course on the Coursera platform. I don't believe Coursera is focused on education alone. Coursera is in the business of reaching learners and changing lives.

**AbdelGafor Elboray,**  
**A job in which you are not a boy cannot be a Mal3em.**



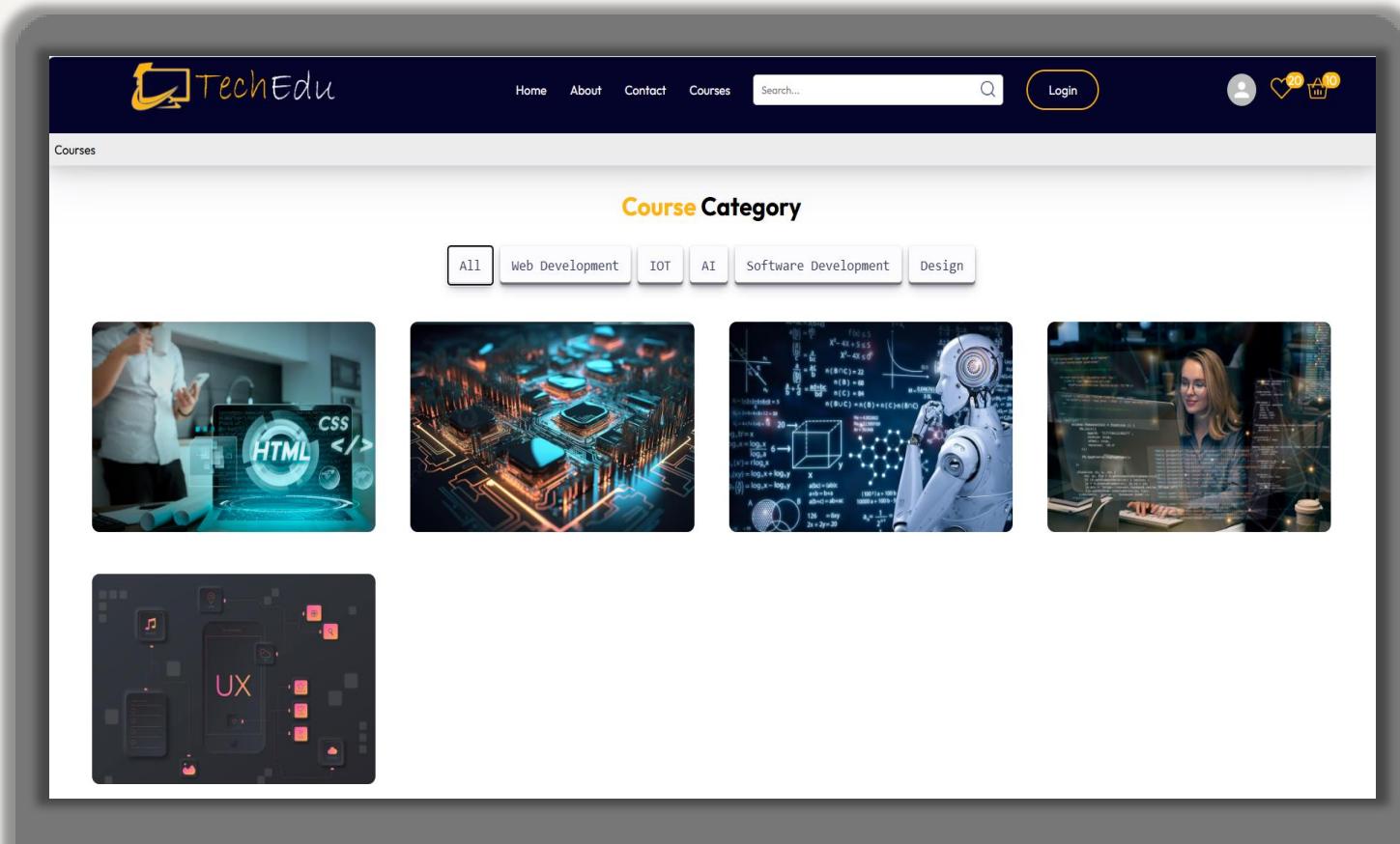
## Our story

# Go And Show

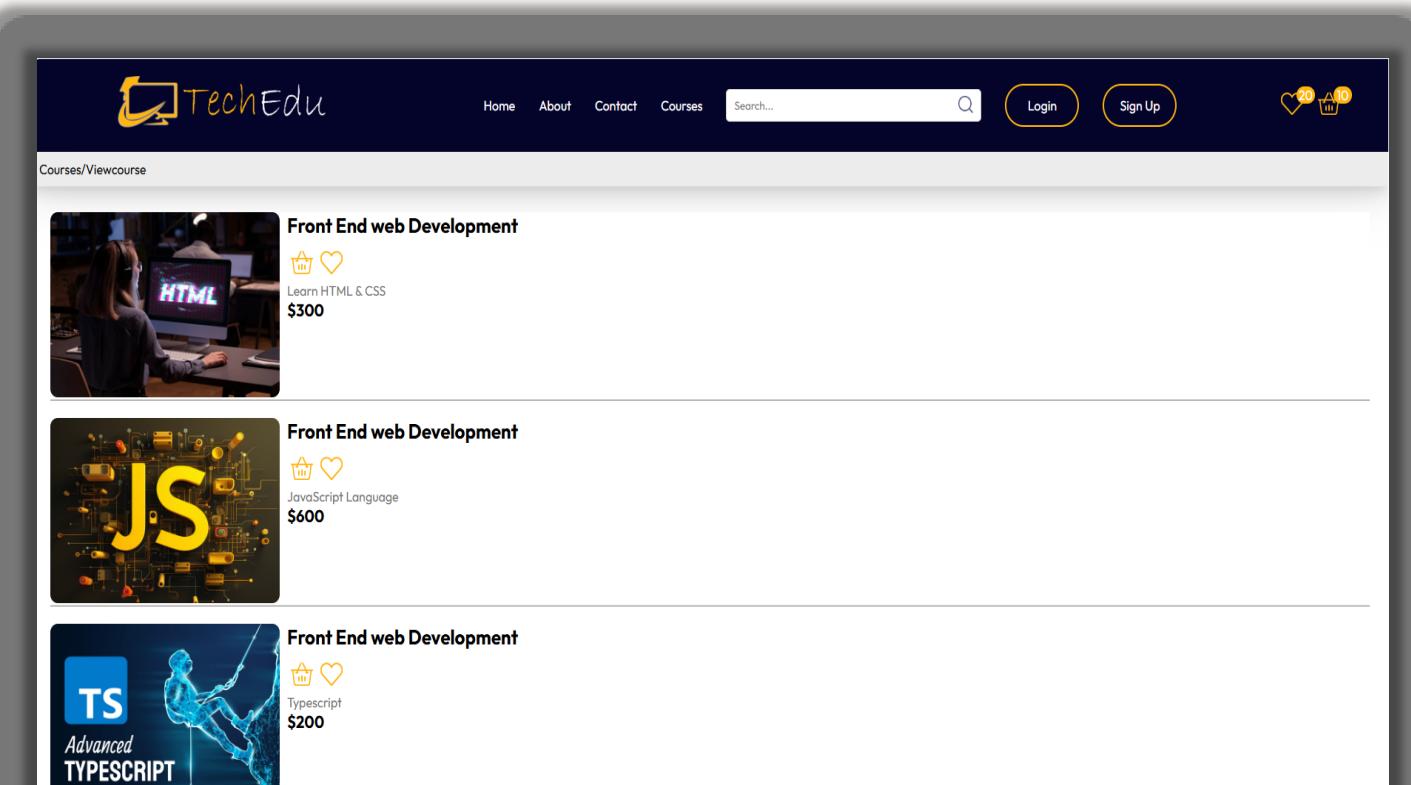


The screenshot shows the TechEdu website's contact page. The header includes the TechEdu logo, navigation links for Home, About, Contact, Courses, a search bar, and a login button. The main content area is titled "Contact Us" and contains a sub-section titled "Privacy Inquiries". It states: "If you have questions about our Privacy Notice or an enquiry abouthow we protect your personal information, you can contact us at [privacy@TechEdu.org](mailto:privacy@TechEdu.org)". Below this is a section titled "Special Concerns" with the text: "Security vulnerabilities on the Coursera site may be reported via the HackerOne platform. We take our site security and user privacy very seriously, and we appreciate your help in keeping Coursera safe!". At the bottom, there is a section titled "Our Offices" featuring three images: the Great Pyramids of Giza, a bridge over a river at night, and the Bibliotheca Alexandrina.

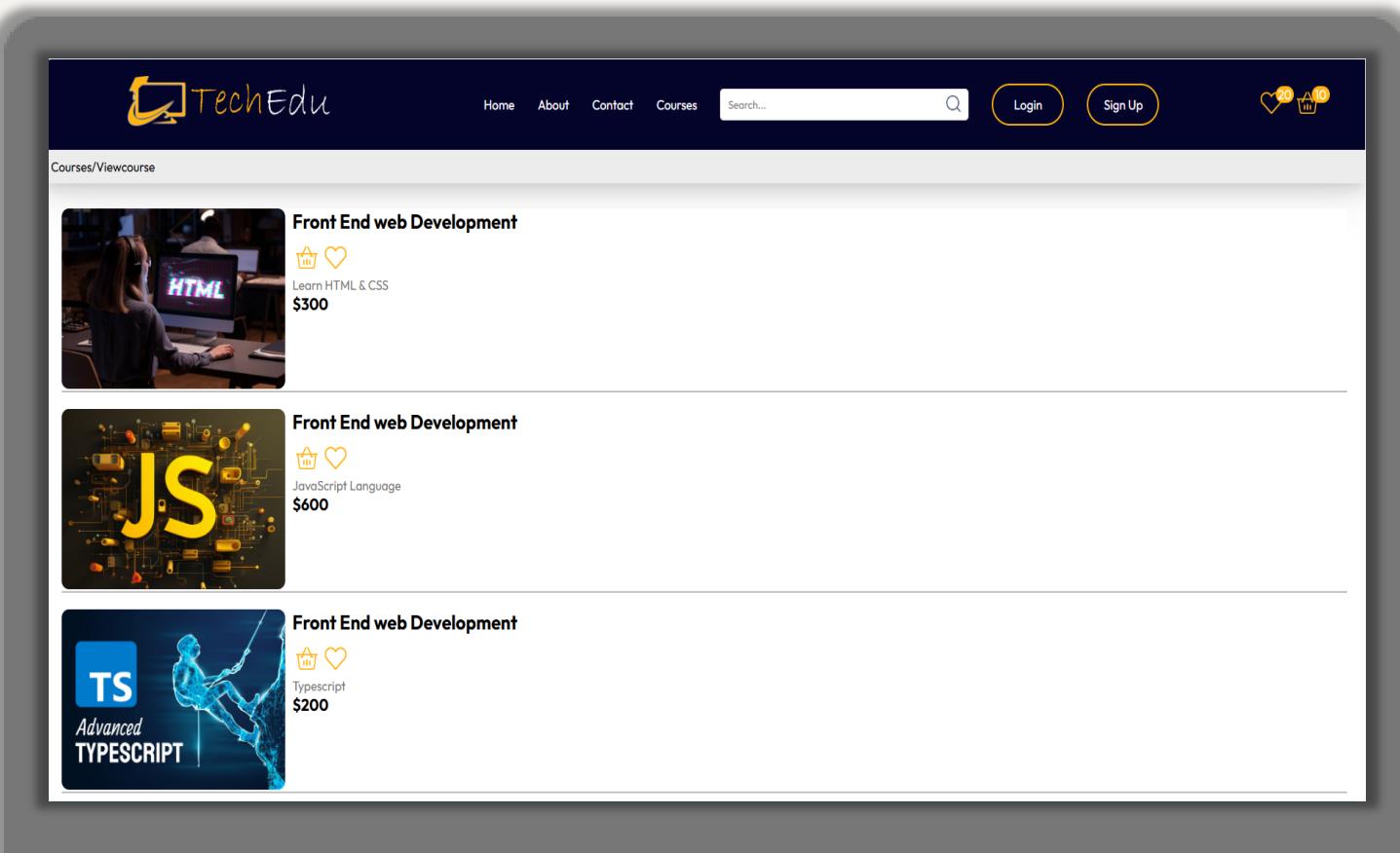
# Go And Show



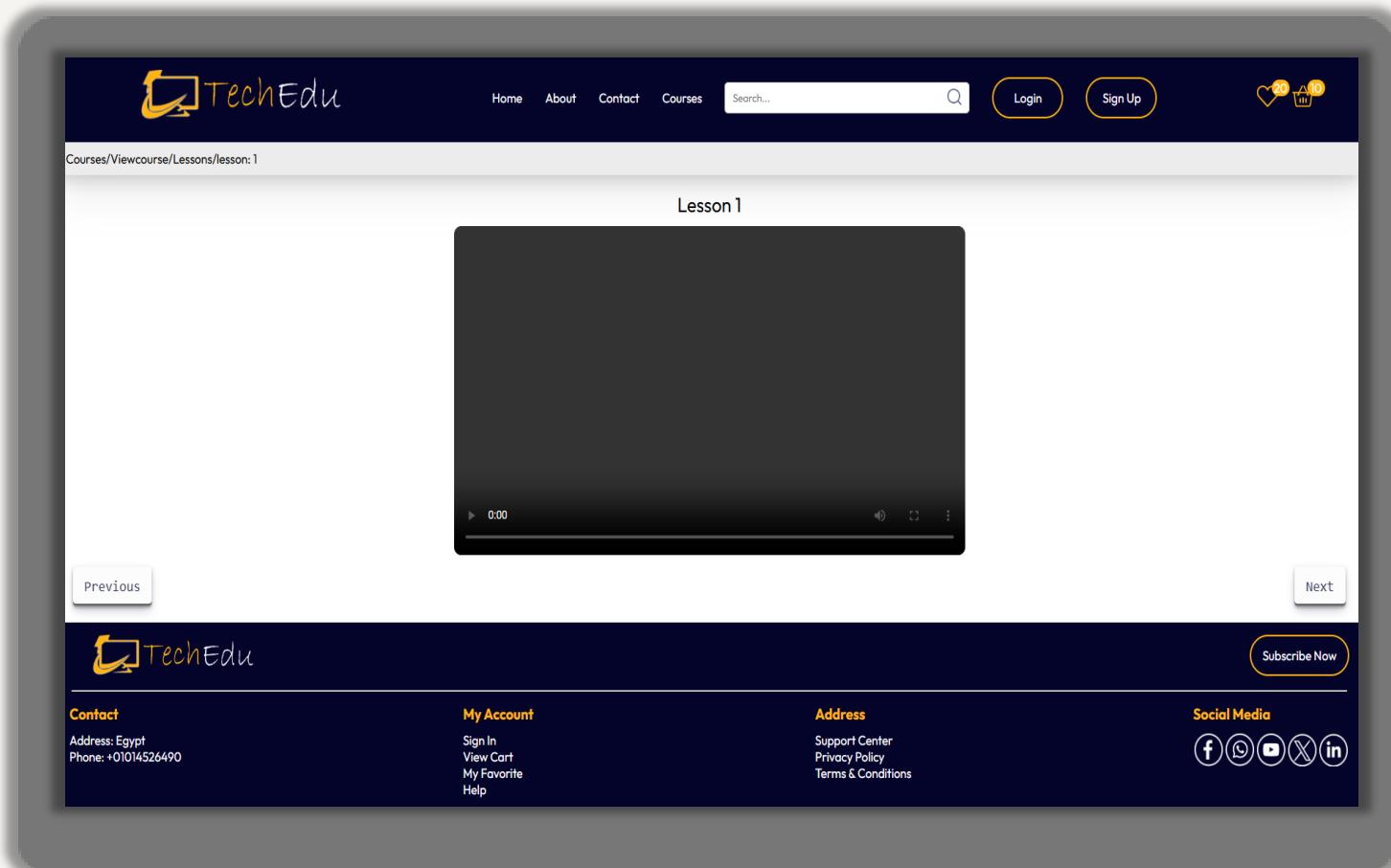
# Go And Show



# Go And Show



# Go And Show



# Go And Show

The screenshot shows a web-based application interface for managing courses. On the left, there is a sidebar with a logo, navigation links for Home, About, and Add Course, and a three-dot menu icon. The main content area features a search bar with a 'Search' button, an 'Export to CSV' button, and three filter sections: 'Filter By Category Course', 'Short By Value', and 'Filter By Status'. The 'Filter By Status' section includes radio buttons for 'All', 'Active', and 'InActive'. Below these filters is a table displaying four course entries. The table columns are: ID, Course Name, Instructor Name, Course Description, Course Content, Type Of Category Course, Type of Course, Price, Status, Profile Course, Video Course, and Action. The first three rows show active courses (Status: Active), while the fourth row shows an inactive course (Status: InActive). Each row includes a small thumbnail image of the course content and an 'Action' button.

ID	Course Name	Instructor Name	Course Description	Course Content	Type Of Category Course	Type of Course	Price	Status	Profile Course	Video Course	Action
1	Software Engineer	Saad	Software e....	Software e....	Software	Software Engineer	10000\$	Active			
2	IOT	Ziad	Internet o....	Internet o....	IOT	IOT	15000\$	Active			
3	Illustrator	Karim	An illustr....	An illustr....	UI/UX	Illustrator	2000\$	InActive			
4	Arduino	Ziad	Arduino is....	Arduino is....	IOT	Arduino	9000\$	Active			



# Go And Show

The screenshot shows a web application interface. On the left is a sidebar with a logo (laptop icon) and three menu items: 'Home', 'About', and 'Add Course'. The main content area features a decorative infinity symbol graphic with 'DEV' on the left and 'OPS' on the right, followed by a video player interface showing a black screen with playback controls (0:00, volume, etc.). Below this is a section titled '- Description' with the text: 'Software engineering is an engineering approach to software development. A practitioner, called a software engineer, applies the engineering design process to develop software.' At the bottom of the main content area is a collapsed panel containing the following information:

Software Engineer	▼
Instructor Name :- Saad	
Status :- Active	
Date Created :- 13-10-2024	
Date Updated :- Invalid date	

# Go And Show

Edit Your Course Details

Course Name: Software Engineer

Instructor Name: Saad

Course Description: Software engineering is an engineering approach to software development. A practitioner, called a software engineer, applies the engineering design process to develop software.

Course Content:

Price: 10000

Select Type Of Category Course:

Select Type Of Course:

Select Your Status:

Select Your Profile Course:

Select Your Video Course:

Submit

# Go And Show

## Create Your Courses

Course Name

Instructor Name

Course Description

Course Content

Select Type Of Category Course

Select Type Of Course

Price

Select Your Status

Select Your Profile Course

Select Your Video Course

**Submit**

Home  
About  
**Add Course**

COMPUTER COURSES

# Thank You