



# Internet Technologies Project

## MTI E-Learning

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## *Chapter 1: Introduction*

### 1.1 Project Purpose

MTI University eLearning Platform is a free online learning service designed to facilitate education for our students, allowing them to access course materials and lectures on various subjects through internet-connected devices. These materials are accessible for download on iOS, Android, or Windows devices. The platform offers a diverse selection of courses curated to cater to the academic needs of our students, covering a wide array of subjects including but not limited to technology, business, arts, and sciences.

MTI University eLearning Platform is compatible with PCs, Laptops, smartphones, and tablets. For optimal performance, users can review the system requirements for web browser compatibility and adhere to recommended internet speed guidelines to ensure smooth interaction with course materials.

#### **Users:**

##### **1. Admin**

- Manage course content (add, delete).
- Monitor user activity logs and account summaries.

##### **2. End-Users**

- Access course lectures and materials.
- Participate in course discussions and provide feedback.
- Log in and manage their accounts.

## 1.2 Project Scope

The MTI University eLearning Platform is designed and implemented using HTML, CSS, Java Script & php, providing a dynamic and interactive website for enhanced user experience. The system encompasses both backend functionalities for data handling, validation, confirmation, and updates, as well as frontend features for user interaction with the administration and course materials. By incorporating these features, the project aims to streamline transactions, reduce processing time, and enhance overall system efficiency.

## 1.3 Glossary and Abbreviations

- **End-User:** Individuals who access and utilize the eLearning platform for academic purposes.
- **Admin:** The designated administrator responsible for managing system operations and servers.
- **Database:** An organized collection of structured information containing course materials, user data, and other relevant information.
- **SQL:** Abbreviation for Structured Query Language, a standard language for managing and manipulating databases.
- **UI/UX:** Refers to the user interface and user experience, encompassing the visual layout and interactive elements of the website that users engage with.

## 1.4 Core Functionalities

### **Who is going to benefit from using the website?:**

- Students enrolled at MTI University.
- Faculty and instructors.
- Administrators overseeing academic operations.

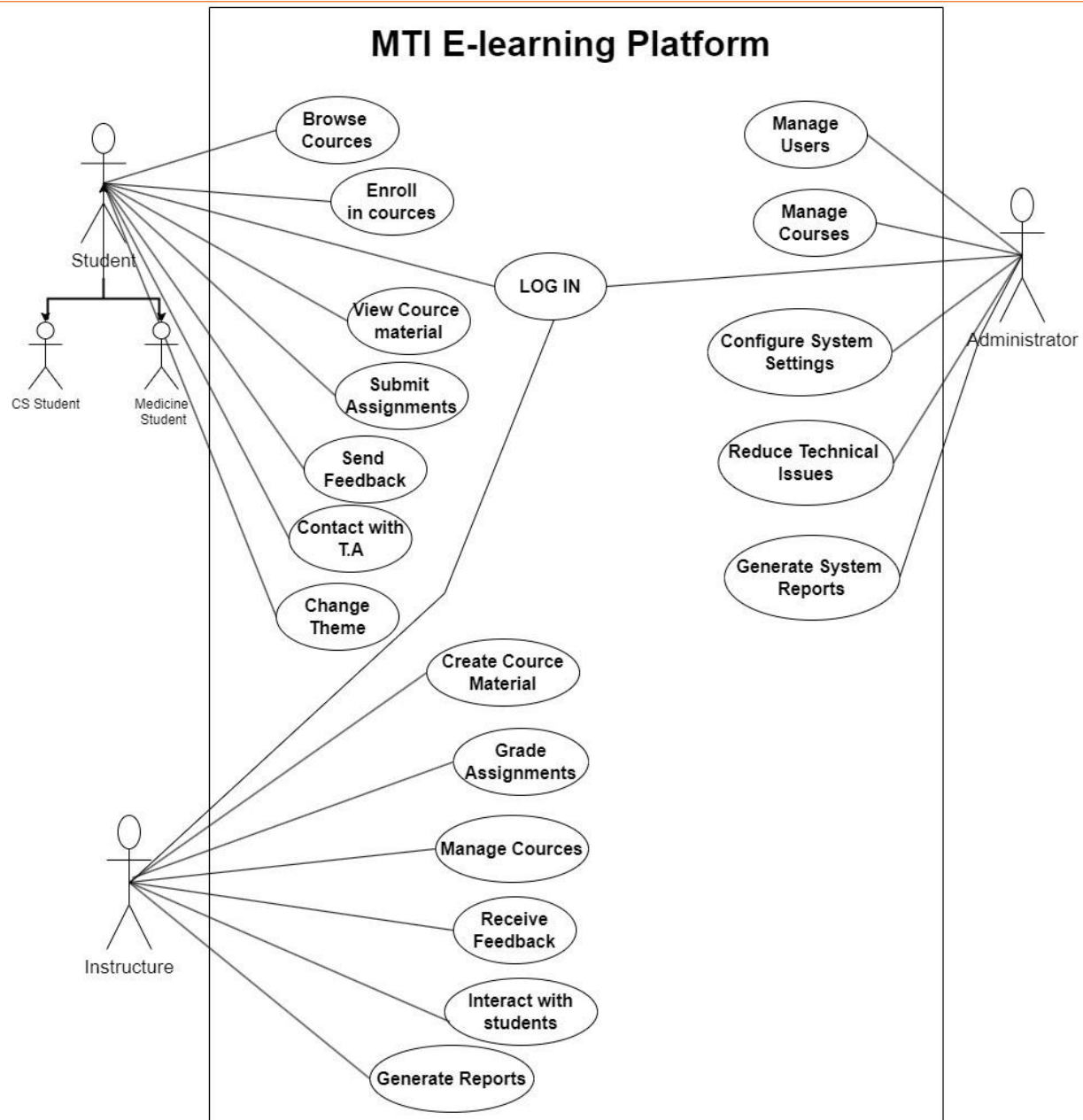
### **What benefits or value the website users get?:**

- Access to a wide range of academic courses and materials.
- Flexibility to study at their own pace and convenience.
- Interactive features such as quizzes, assignments, and discussions to enhance learning.
- Ability to track progress and manage course enrollment.
- Access to supplementary resources and materials to enrich learning experience.
- Collaboration tools for students and instructors to communicate and collaborate effectively.
- Convenient access to course materials on various devices, including smartphones, tablets, and laptops.
- Integration with external databases and APIs to provide comprehensive and up-to-date course content.
- Streamlined administrative functionalities for course management and monitoring student progress.
- Regular updates and improvements to ensure a seamless and efficient learning experience.
- Access to support services for technical assistance and academic guidance.

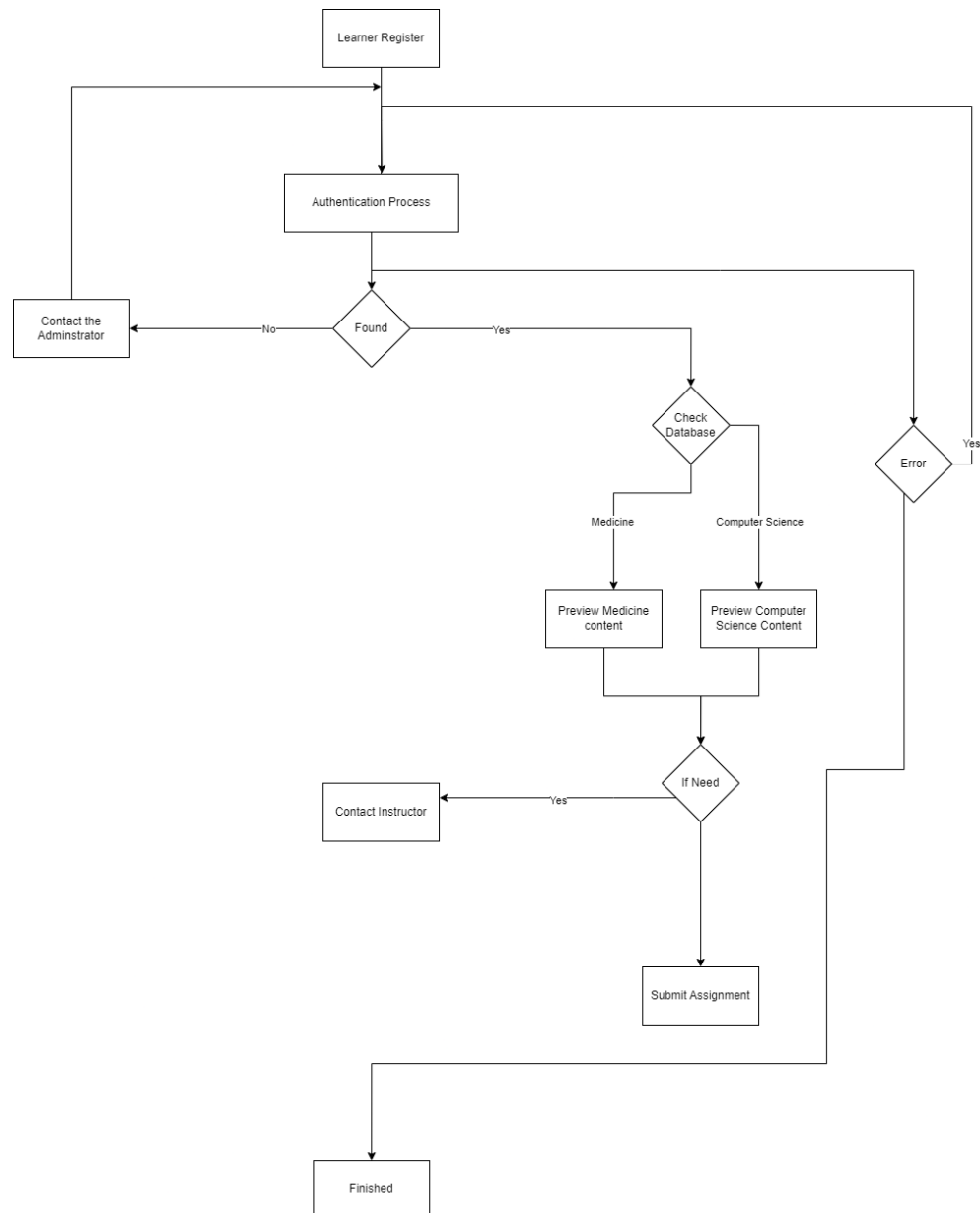
Overall, the MTI University eLearning Platform aims to provide a comprehensive and accessible online learning environment for students, faculty, and administrators, offering valuable educational resources and facilitating effective teaching and learning experiences.

## Chapter 2: System Design and Analysis

### 2.1 Use-Case Diagram

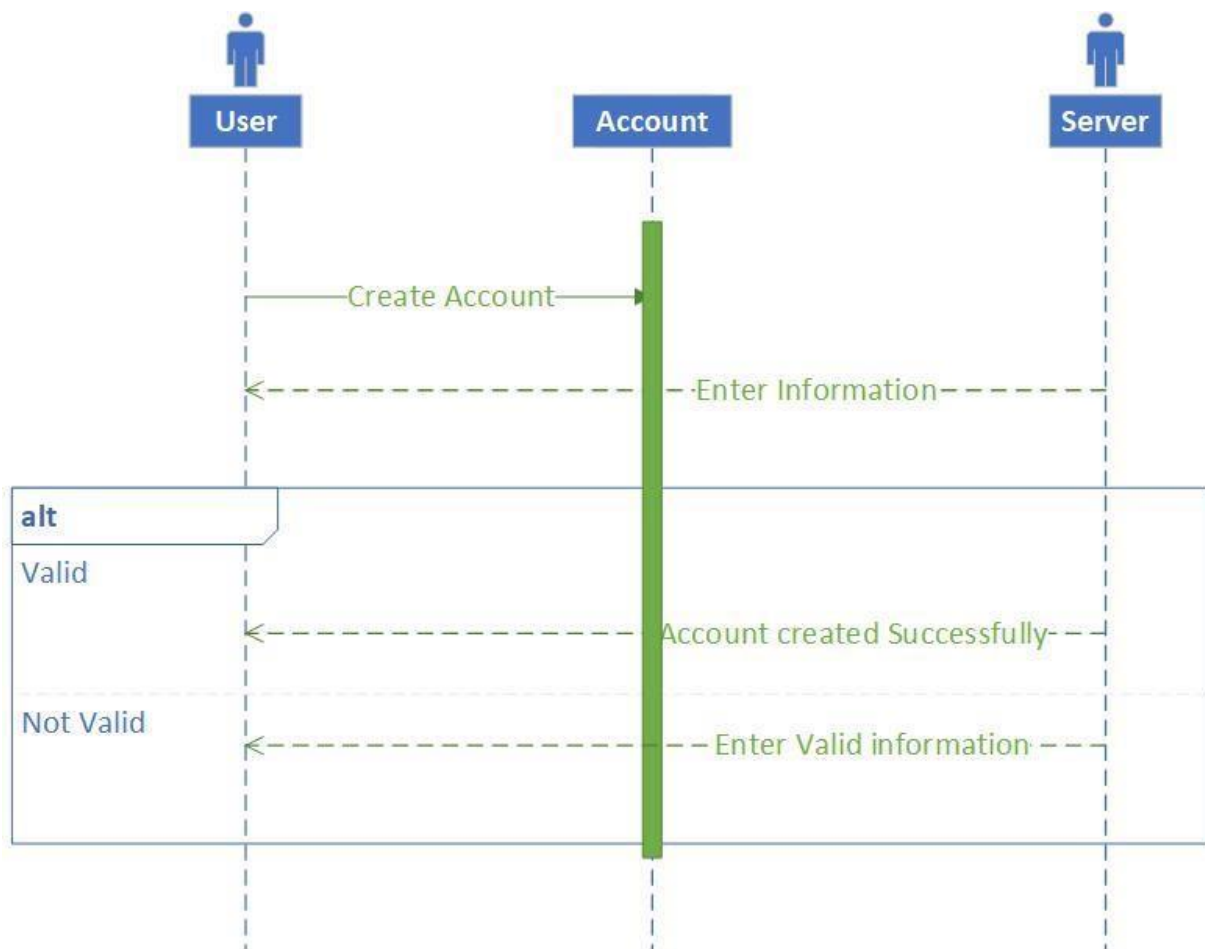


## 2.2 User Flow Diagram



## 2.3 Sequence Diagram

### Account login

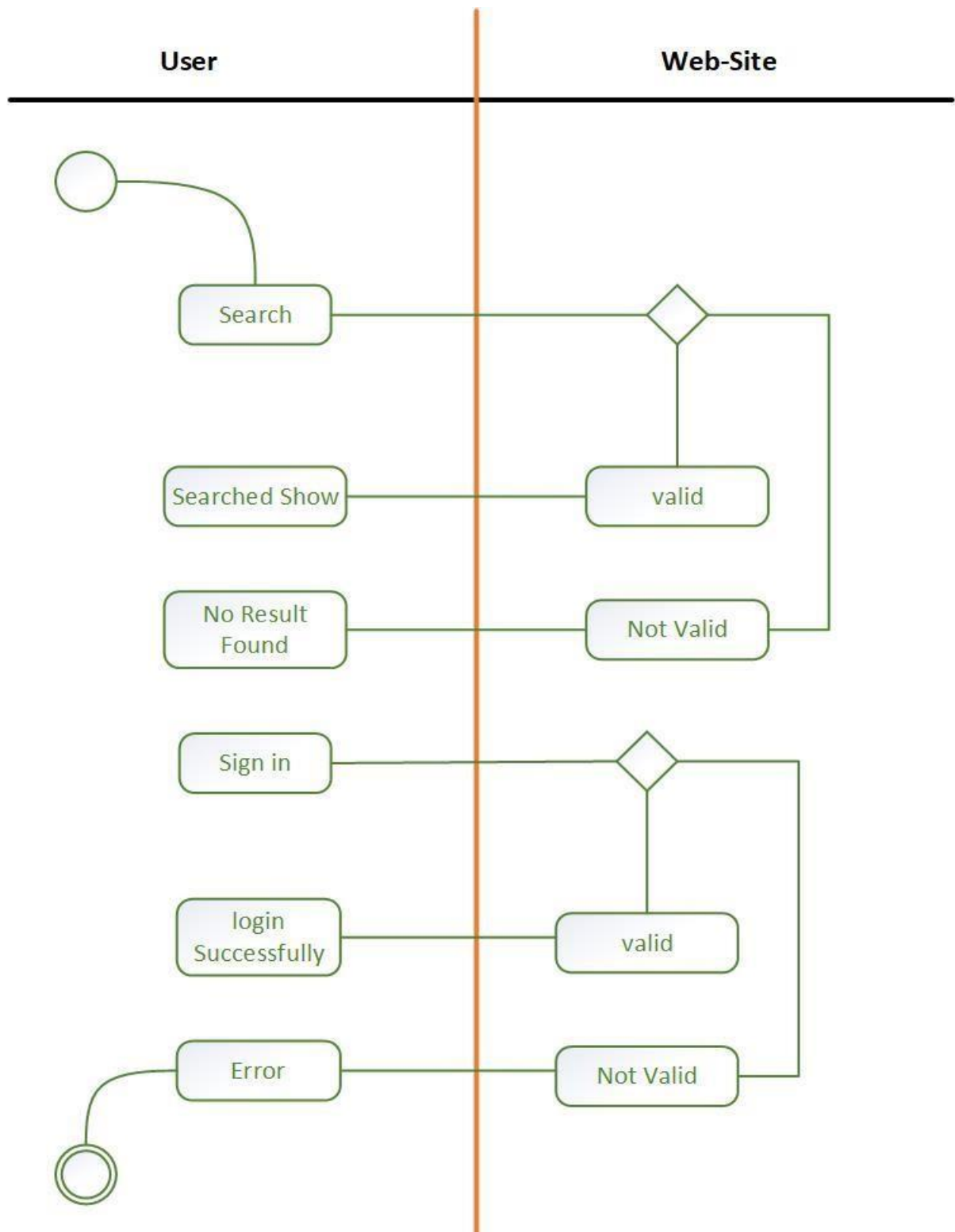


1. User input email and password
2. Server checks whether the email exists or not
3. If the account exists then create the account, otherwise shows an error message to enter a valid or new email.

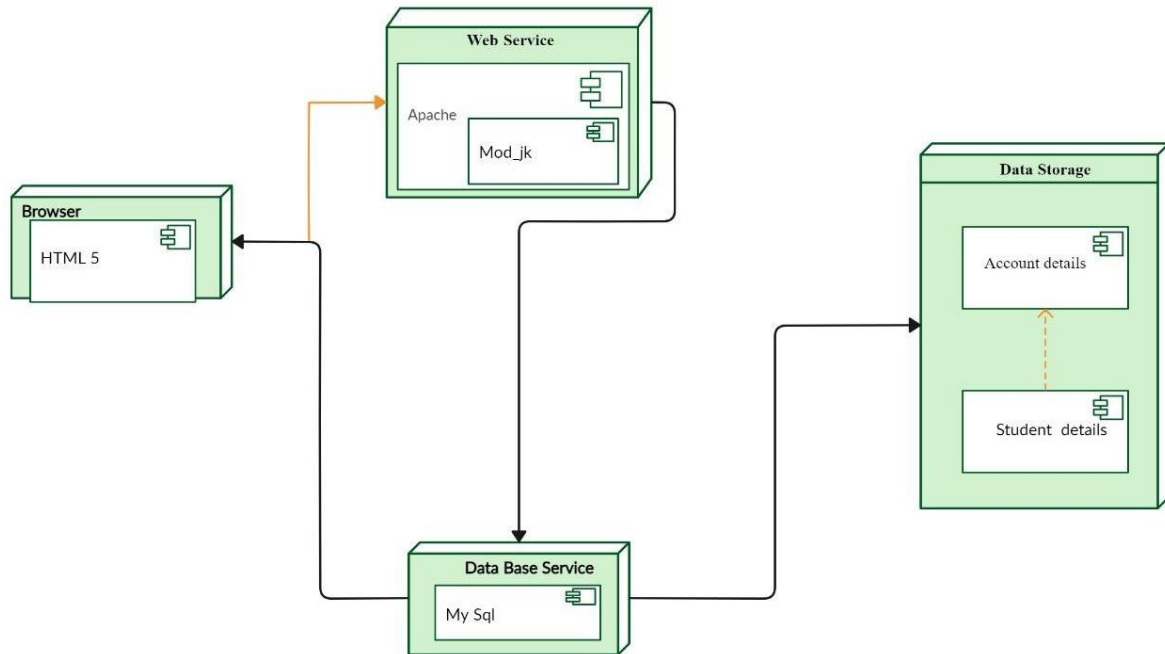


## 2.4 Activity Diagram

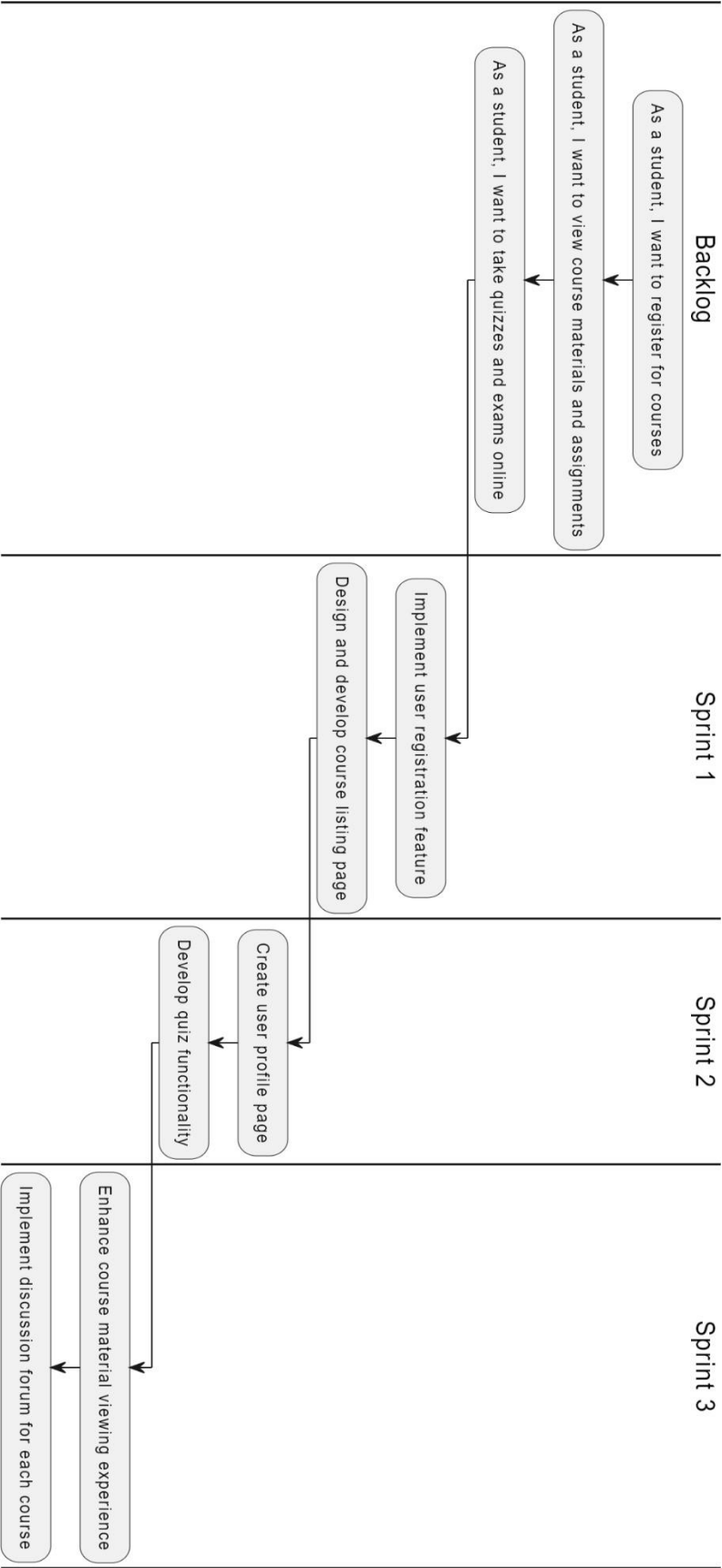
### User Search for a course and login



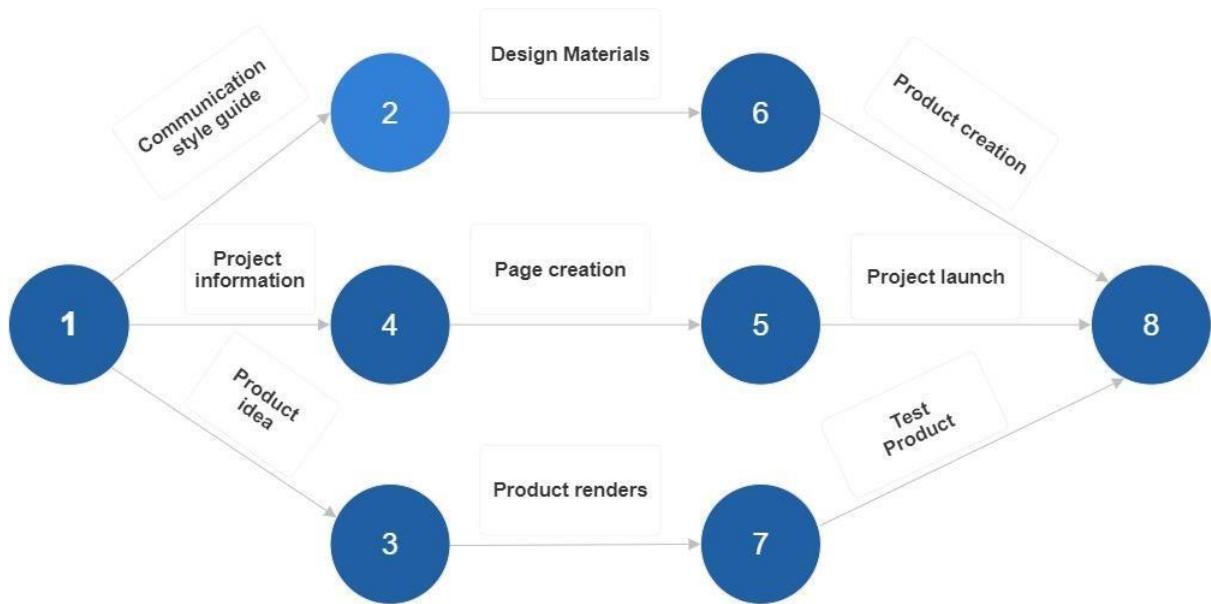
## 2.5 Deployment Diagram



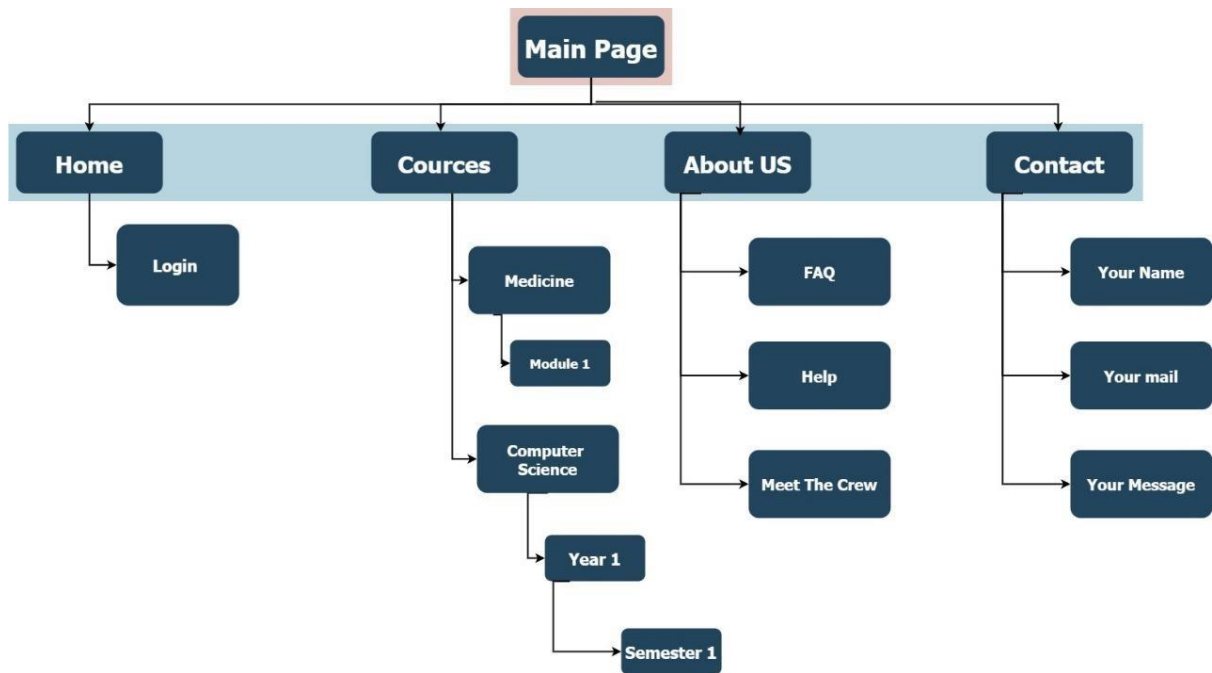
2.6 Story Map



## 2.7 Pert chart

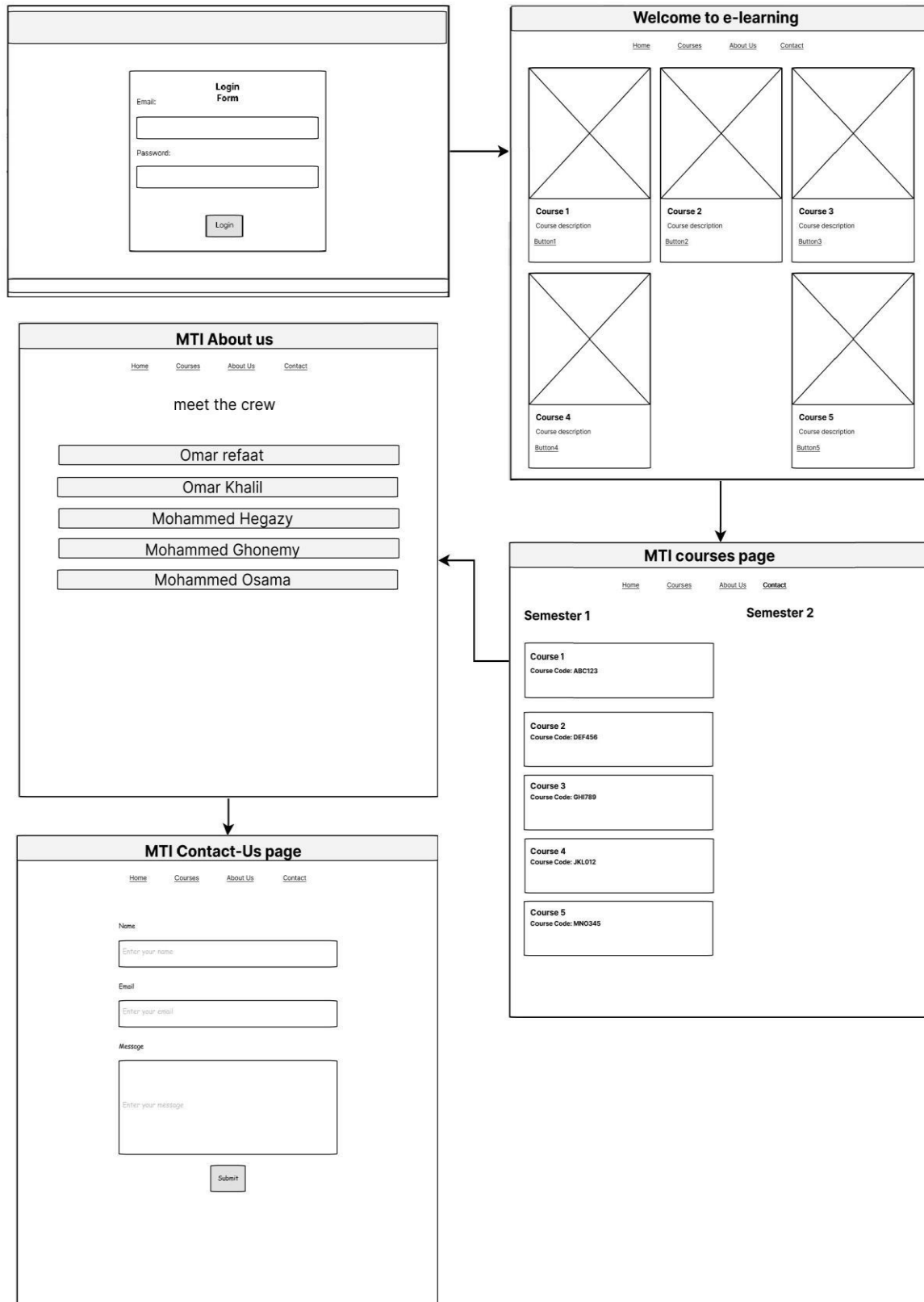


## 2.8 Site Map



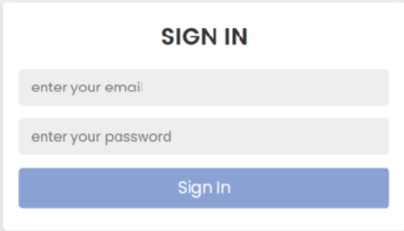
## Chapter 3: System UI/UX Design

### 3.1 WireFrames:



## 3.2 User Interface:

### Login Page



**SIGN IN**

enter your email

enter your password

Sign In

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**Introduction to Programming**  
Learn the basics of programming languages.  
Next Assignment: Due on December 15, 2023

**Data Structures and Algorithms**  
Explore fundamental data structures and algorithms.  
Next Assignment: Due on December 18, 2023

**Computer Networks I**  
Build a foundation in computer networks.  
Next Assignment: Due on December 20, 2023

**Database Management**  
Learn about database design and management.  
Next Assignment: Due on December 22, 2023

**Software Engineering I**  
Explore the fascinating world of software engineering.  
Next Assignment: Due on December 25, 2023

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Learn about the structure of the human body.

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Study the effects and uses of drugs.

Next Session: March 22, 2024

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Next Session: March 25, 2024

#### Pathology

Learn about the causes and effects of diseases.

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#### Internal Medicine

Study the prevention, diagnosis, and treatment of adult diseases.

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English Language I

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Physics



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### Meet The Crew

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Mohamed Hegazy

Mohamed Osama

Mohamed Ghonamey

Omar Khalil

## Alternative CSS (Dark theme)

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#### Introduction to Programming

Learn the basics of programming languages.

Next Assignment: Due on December 15, 2023

#### Data Structures and Algorithms

Explore fundamental data structures and algorithms.

Next Assignment: Due on December 16, 2023

#### Computer Networks I

Build a foundation in computer networks.

Next Assignment: Due on December 20, 2023

#### Database Management

Learn about database design and management.

Next Assignment: Due on December 22, 2023

#### Software Engineering I

Explore the fascinating world of software engineering.

Next Assignment: Due on December 25, 2023

Light Mode

## Chapter 4: System Testing

### 4.1 Open a course and submit an assignment

Test Number	Valid/Invalid	Description	Steps	Expected Result
T1	Valid	Open a course and submit an assignment.	<ol style="list-style-type: none"> <li>1. Log in to the eLearning platform.</li> <li>2. Navigate to the desired course.</li> <li>3. Access the assignment section.</li> <li>4. Upload the assignment file.</li> <li>5. Submit the assignment.</li> </ol>	Assignment is successfully submitted.

### 4.2 Valid email and password

Test Number	Valid/Invalid	Description
T1	Valid email and password	End-user is logged into his/her account
T2	Invalid email and/or password	The error message shown