



Easy-Learn Education Portal University

Supervised by
Asst. Prof. Dr. Amira AlShazly

Faculty of Computers and Data Sciences,
Alexandria University.
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Project Name

Education Portal

Team Members

<i>Name</i>	<i>ID</i>	<i>Role</i>
<i>Alia Medhat</i>	<i>20221440735</i>	<i>Web Developer</i>
<i>Mohamed Gomaa</i>	<i>2103129</i>	<i>System Designer</i>
<i>Malak Mahmoud</i>	<i>20221445867</i>	<i>System Analyst</i>
<i>Nouran Mohamed</i>	<i>20221321932</i>	<i>Requirement Engineer</i>
<i>Noha Nael</i>	<i>2103130</i>	<i>System Designer</i>
<i>Youssef Farouk</i>	<i>20201310051</i>	<i>Web Developer</i>

Table of Contents

1. Project Domain	6
2. Project Name and Type	6
3. Project Description	6
4. The Delivery Service for the Customer	6
5. Functional Requirements	6
5.1. Student Management (Login-Sign Up)	6
5.2. Course Management (Manage/View Courses)	6
5.3. Exercises and Grading.....	6
5.4. Search and Navigation	6
6. Non-Functional Requirements.....	6
6.1. Performance	6
6.2. Security.....	6
6.3. Usability	7
6.4. Compatibility.....	7
6.5. Maintainability	7
6.6. Scalability	7
7. Agile Requirements	7
8. Glossary	7
9. Prioritized Requirements	7
10. Assumptions and Constraints	7
11. Verification.....	7
12. Diagrams.....	8
12.1. Sequence Diagram	8
12.2. Activity Diagram	10
12.3. Class Diagram.....	11
12.4. ERD	12
12.5. Use-Case Diagram.....	13
13. Interfaces	14
13.1. Student Interfaces	14
Student Login.....	14
Student Register	14
Home panel	15
Courses Panel.....	15

Exercises	16
Download.....	16
About Us	17
13.2. Admin Interfaces	17
Admin Login.....	17
Administrator panel	18
Manage Courses.....	18
Add Exercises	19
Display and search for students	19
Manage and add admins.....	20
14. Case Testing	21
14.1. Search	21
14.2. Login.....	22
15. Github Link.....	22

Table of Figures

Figure 1: Student Sequence Diagram 12-1	8
Figure 2: Admin Sequence Diagram 12-1	9
Figure 3: Activity Diagram 12-2.....	10
Figure 4: Class Diagram 12-3	11
Figure 5: ERD 12-4.....	12
Figure 6: Use-Case Diagram 12-5	13

1. Project Domain

Platform for education portal.

2. Project Name and Type

- Project Name: 'Easy-Learn'.
- Project Type: Education Portal Website.

3. Project Description

The project aims to create a user-friendly educational portal that multiple universities can utilize. This platform will provide an easy-to-use interface for students, offering a variety of courses, interactive content, and quizzes. The focus is on simplicity to ensure students from different universities can access educational materials effortlessly.

4. The Delivery Service for the Customer

Easy-Learn provides a user-friendly educational portal for learning and teaching. Students will gain convenient access to a wide range of educational content, interactive courses, and the flexibility to learn at their own pace. Easy-Learn also enable students to enhance their academic skills and pursue their educational goals.

5. Functional Requirements

5.1. *Student Management (Login-Sign Up)*

- Student shall be able to create accounts.
- The system shall have a secure login and password recovery.

5.2. *Course Management (Manage/View Courses)*

- Admins shall be able to create and manage courses.
- Students shall be able to view courses.
- Admins shall be able to upload text, video, and interactive content.

5.3. *Exercises and Grading*

- Admins shall be able to create exercises for every course.
- The system shall automatically grade and gives feedback.
- Students shall be able to view their performance on the course.

5.4. *Search and Navigation*

- Students shall be able to search for courses and materials.
- The system shall be customizable interface with quick access to courses.

6. Non-Functional Requirements

6.1. *Performance*

- The system shall have acceptable response times for different actions.
- The system shall handle increasing numbers of students and content.
- The website shall be available and reliable.

6.2. *Security*

- The system shall encrypt all sensitive data.
- The system shall compliance with data protection regulations.

- The system shall implement role-based access control.
- The student shall authenticate themselves with their given email address in the registration phase.

6.3. Usability

- The website shall be easy to use and navigate for students of all skill levels.

6.4. Compatibility

- The system shall be compatible with popular web browsers.
- The system shall be compatible with different operating systems.

6.5. Maintainability

- The system shall use version control tools for code management.
- The document shall maintain detailed documentation for the project.

6.6. Scalability

- The system shall handle a growing in students base.

7. Agile Requirements

- The e-learning website will be developed using an agile methodology. This means that the requirements will be prioritized and implemented iteratively, with feedback from stakeholders being gathered throughout the development process.

8. Glossary

The following terms are used in this SRS document:

- Course: A collection of learning materials and activities on a specific topic.
- Admin: A person who creates and manages courses.
- Student: A person who interacts with the e-learning website.

9. Prioritized Requirements

The following **functional requirements** have been prioritized for the initial release of the e-learning website:

1. Student management
2. Course management

The following **non-functional requirements** have been prioritized for the initial release of the e-learning website:

1. Performance
2. Security
3. Usability

10. Assumptions and Constraints

The following assumptions and constraints apply to the e-learning website project:

- The website will be hosted on a cloud-based platform.
- The website will be developed using open-source technologies.
- The website will be initially developed for use on desktop and laptop computers.

11. Verification

The following methods will be used to verify that the e-learning website meets the requirements:

- Unit testing
- Integration testing
- System testing
- User acceptance testing

12. Diagrams

12.1. Sequence Diagram

Student Sequence Diagram

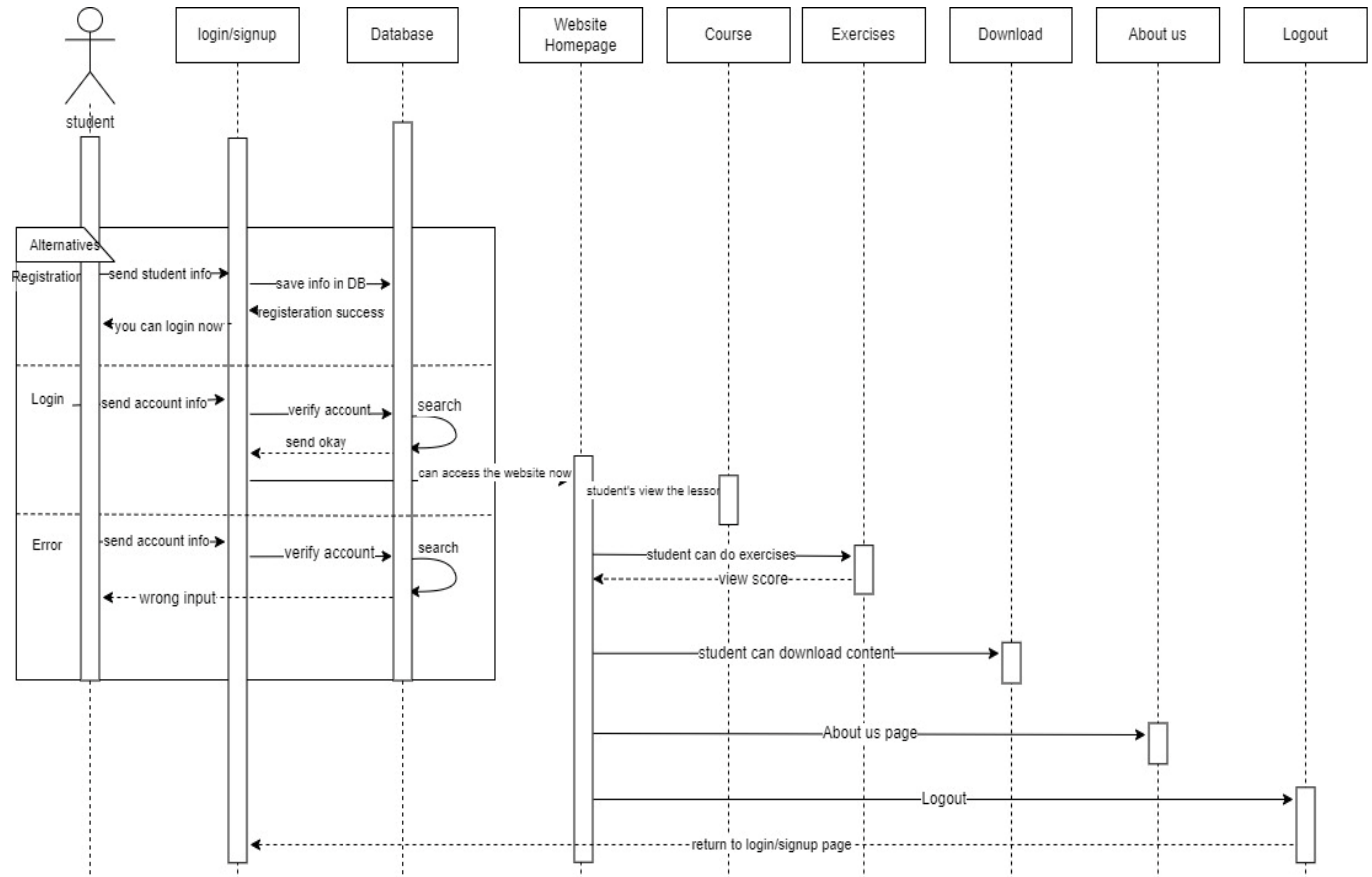


Figure 1: Student Sequence Diagram

Admin Sequence Diagram

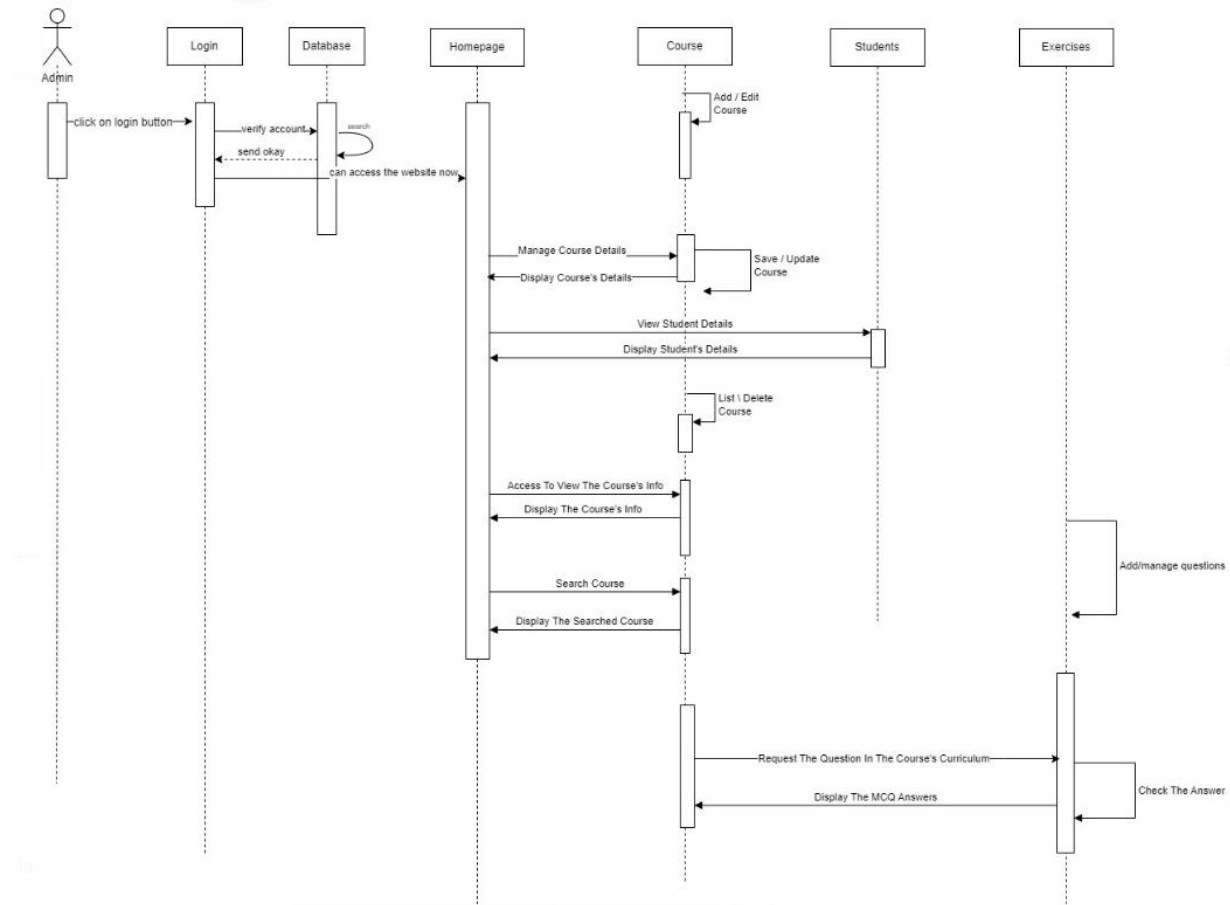


Figure 2: Admin Sequence Diagram

12.2. Activity Diagram

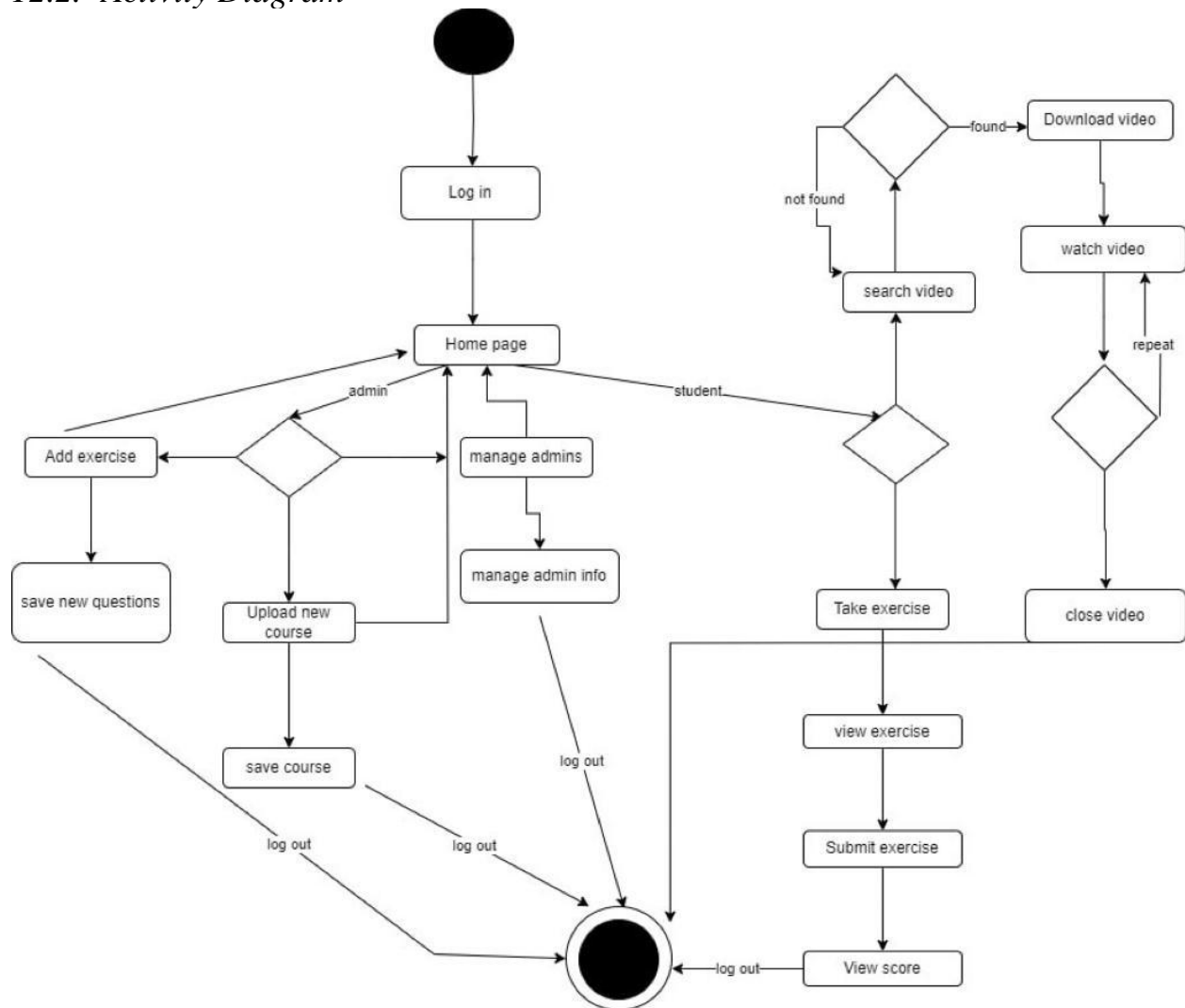


Figure 3: Activity Diagram

12.3. Class Diagram

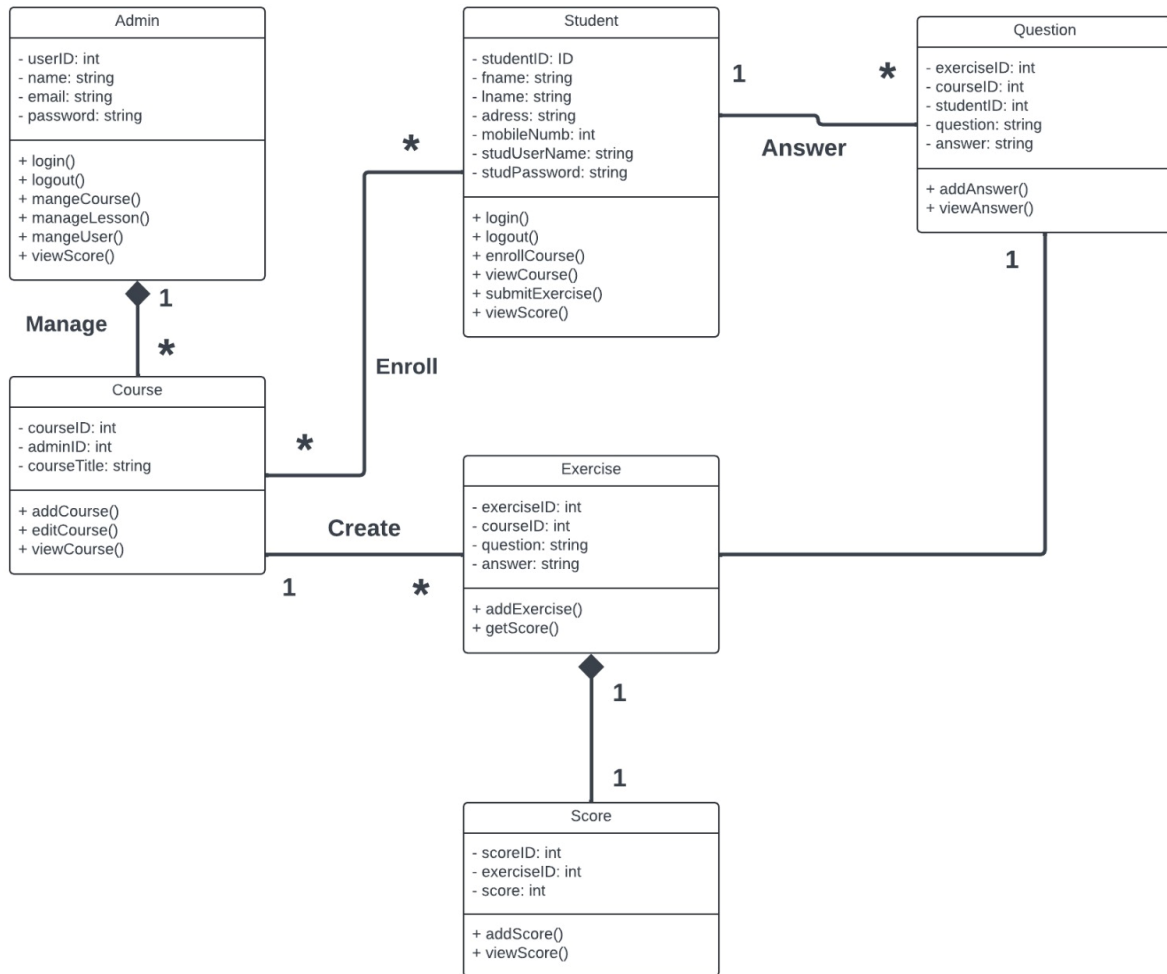


Figure 4: Class Diagram

12.4. ERD

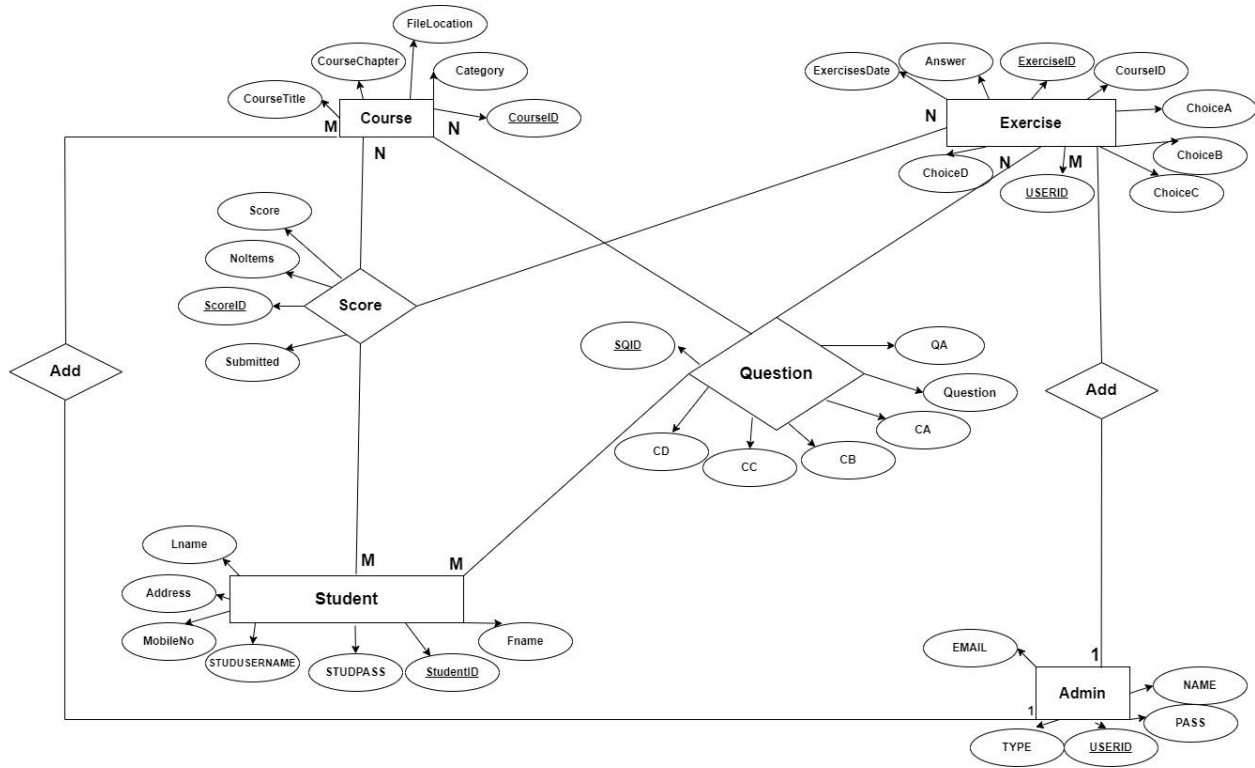


Figure 5: ERD

12.5. Use-Case Diagram

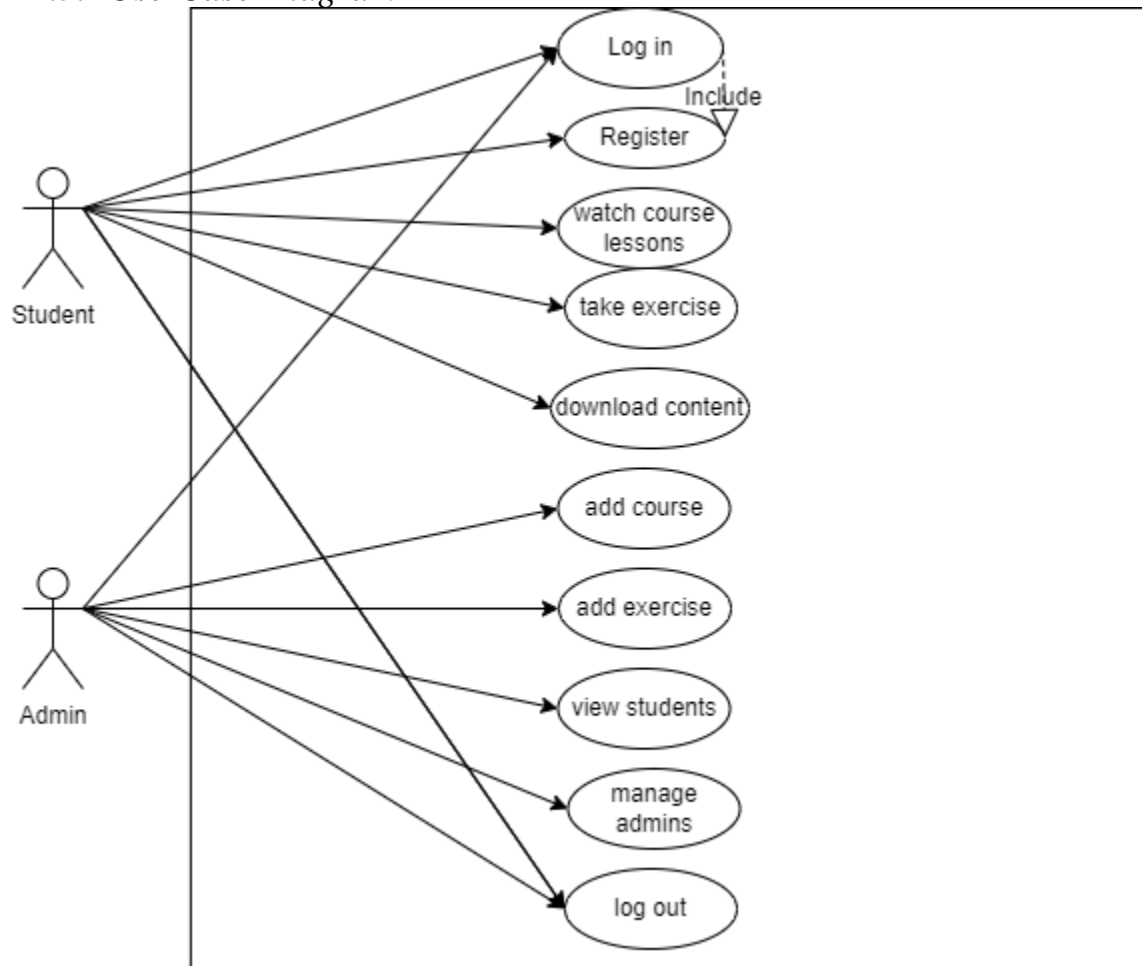


Figure 6: Use-Case Diagram

13. Interfaces


13.1. Student Interfaces


Student Login

Students can login with their username and password if they already have an account.



Member Login

 Username

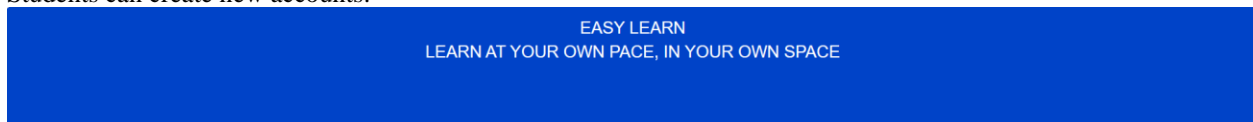
 Password

LOGIN

[Create your Account](#) →

Student Register

Students can create new accounts.



Sign Up

First Name:

Last Name:

Address:

Contact No.:

Username:

Password:






[← Back to Login](#)

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Home panel

Our Home panel includes our websites objectives and goals, and from it students can access the courses and download content.



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Mandate

A user-friendly educational portal that multiple universities can utilize. This platform will provide an easy-to-use interface for students, offering a variety of courses, interactive content, and quizzes. The focus is on simplicity to ensure students from different universities can access educational materials effortlessly.

Objectives

1. Create an environment of shared leadership and responsibilities with competent administrator.
2. Provide relevant trainings and seminar to faculty, staff, and student.
3. Produce highly competitive graduates.
4. Conduct relevant and updated researches
5. Extend financial support and manpower for outreach activities.

Goals

1. Globally competitive graduates
2. Institutionalize research culture
3. Responsive and sustainable extension services
4. Maximized profit of variable agro-industrial business ventures
5. Effective and efficient administration

Guiding Principles






- Academic Freedom
- Responsibility
- Academic Standards

Core Values

- God-Centered
- Excellence
- Integrity
- Transparency and Accountability
- Dedication to Quality Service

Courses Panel

Students will be able to view and search courses.



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Courses

PDF

Show 10 entries Search:

#	Course	Title	Action
1	Software Engineering	Software-Engineering-Ian-Sommerville	View File
2	Deep Learning	Adaptive_Computation_and_Machine_Learning	View File
3	Operations Research	Operations-Research-Theory-and-Applications-by-j.-k.-sharma-z-lib.org_	View File

Showing 1 to 3 of 3 entries

VIDEO

Show 10 entries Search:

#	Description	Action
1	Software-Introduction	Play Video
2	Deep Learning Introduction	Play Video
3	Operations-Research-Introduction	Play Video

Showing 1 to 3 of 3 entries

[Previous](#)[Next](#)

Exercises

Students will do exercises and the system automatically will grade the student's answers and gives feedback, also they will be able to view their grade.

Home

Exercises

Download

Info

Share

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Exercises

Show 10 entries

Search:

#	Course	Title	Action
1	Software Engineering	Software-Engineering-Ian-Sommerville	View Exercises
2	Deep Learning	Adaptive_Computation_and_Machine_Learning	View Exercises
3	Operations Research	Operations-Research-Theory-and-Applications-by-j.-k.-sharma-z-lib.org_	View Exercises
4	Software Engineering	Software-Introduction	View Exercises
5	Deep Learning	Deep Learning Introduction	View Exercises
6	Operations Research	Operations-Research-Introduction	View Exercises

Showing 1 to 6 of 6 entries

[Previous](#)[Next](#)

Download

Students can download course content.

Home

Exercises

Download

Info

Share

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LEARN AT YOUR OWN PACE, IN YOUR OWN SPACE

Download

PDF

Show 10 entries

Search:

#	Course	Title	Action
1	Software Engineering	Software-Engineering-Ian-Sommerville	Download
2	Deep Learning	Adaptive_Computation_and_Machine_Learning	Download
3	Operations Research	Operations-Research-Theory-and-Applications-by-j.-k.-sharma-z-lib.org_	Download

Showing 1 to 3 of 3 entries

[Previous](#)[Next](#)

VIDEO

Show 10 entries

Search:

#	Decription	Action
1	Software-Introduction	Download
2	Deep Learning Introduction	Download
3	Operations-Research-Introduction	Download

Showing 1 to 3 of 3 entries

[Previous](#)[Next](#)

About Us

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About Us

Welcome to Easy Learn, where education meets convenience and innovation. We're dedicated to revolutionizing the way you learn, making education accessible, engaging, and tailored to your unique learning style.

At Easy Learn, we understand the challenges of traditional learning methods. That's why we've crafted a platform that breaks barriers and brings the classroom to you, wherever you are. Whether you're a student seeking to excel academically, a professional aiming to upskill, or someone passionate about continuous learning, Easy Learn is your one-stop destination.

What sets us apart is our commitment to creating an immersive, interactive, and personalized learning experience. Our diverse range of courses spans various subjects, from mathematics and sciences to arts, business, and beyond. Each course is meticulously designed by experts, blending cutting-edge technology with pedagogical expertise to ensure maximum comprehension and retention. We believe that learning should be flexible and adaptable to your schedule. With Easy Learn, you have the freedom to learn at your own pace, accessing courses anytime, anywhere, and from any device. Whether it's through interactive video lectures, hands-on assignments, or collaborative discussions with fellow learners, we strive to make your learning journey enjoyable and rewarding. Moreover, our platform is designed to foster a supportive community where learners can connect, share insights, and grow together.

We encourage curiosity, critical thinking, and the pursuit of knowledge without limits. Join us at Easy Learn, where education becomes an exciting adventure. Let's embark on this journey together, empowering ourselves through the boundless possibilities of learning.

13.2. Admin Interfaces

Admin Login

To allow admins to access his/her account, and to verify the account



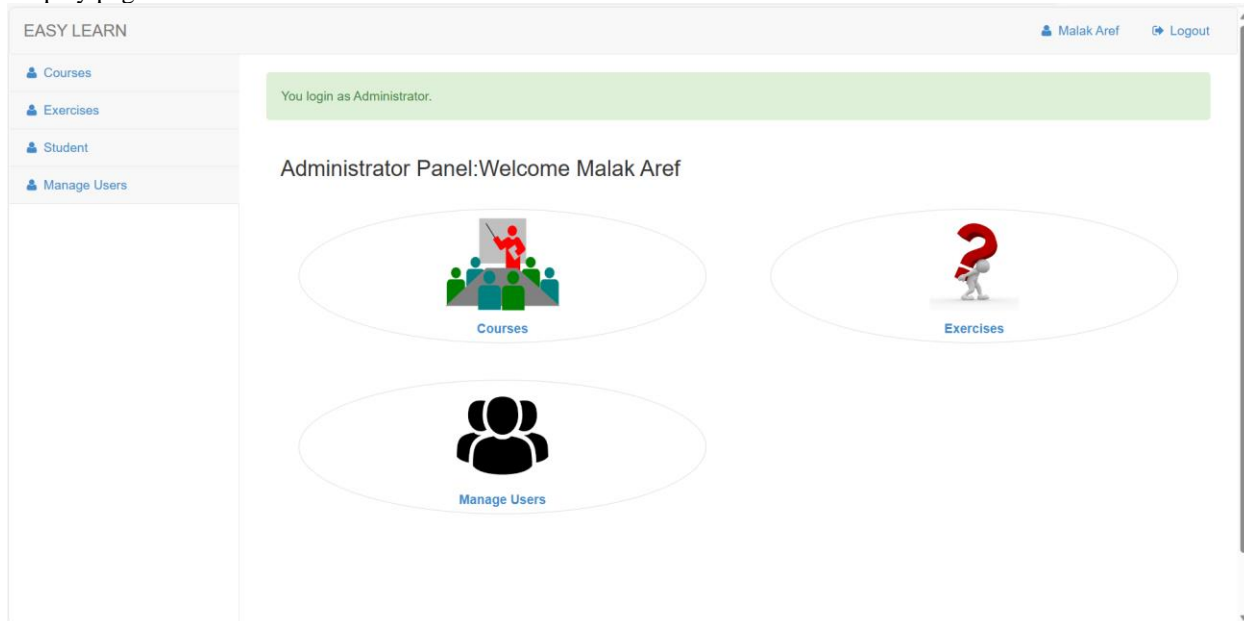
Login to continue

LOGIN

or [← Back to Home](#)

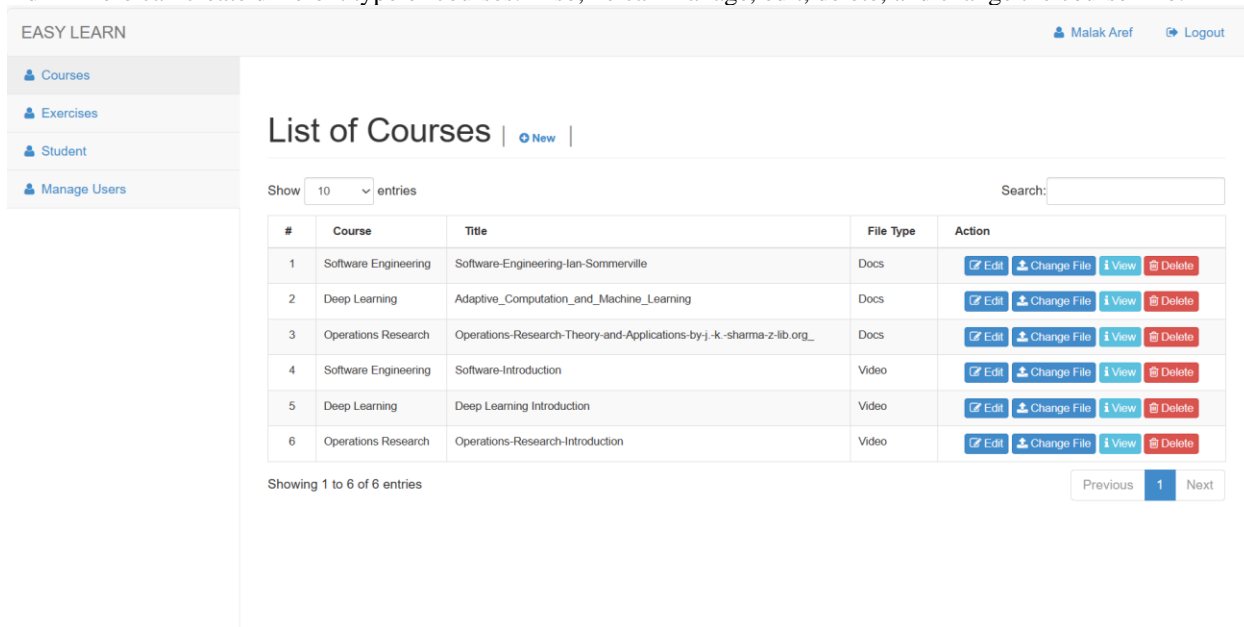
Administrator panel

Display page of the actions that the admin can do



Manage Courses

Admin here can create different type of courses. Also, he can manage, edit, delete, and change the course info.



Add Exercises

Admin can create and manage exercises for every course.

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Courses

Exercises

Student

Manage Users

New Question created successfully!

List of Question | [New](#)

Show 10 entries

Search:

No.	Course	Question	A	B	C	D	Answer	Action
1	Software-Engineering-Ian-Sommerville	Software is defined as _____	set of programs, documentation & configuration of data	set of programs	documentation and configuration of data	None of the mentioned	set of programs, documentation & configuration of data	Edit Delete

Showing 1 to 1 of 1 entries

Previous 1 Next

Display and search for students

Display all the users that the system has.

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Courses

Exercises

Student

Manage Users

List of Student

Show 10 entries

Search:

#	Name	Address	Contact#
1	a a	a	21
2	sd sad	sad	231
3	Alia Medhat	Alexandria	01223568499

Showing 1 to 3 of 3 entries

Previous 1 Next

Manage and add admins

Admin can add other admin and manage their info.

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Malak Aref

Logout

Courses

Exercises

Student

Manage Users

List of Users | [New](#)

Show 10 entries

Search:

No.	Account Name	Username	Action
1	Janino Palacios	janobe	Edit Delete
2	Malak Aref	malak	Edit Delete

Showing 1 to 2 of 2 entries

Previous

1

Next

14. Case Testing

14.1. Search

Test Case type	Test case	Test step	Test data	Expected output	Actual Output
Search_video	To verify the behavior of the search functionality when an irrelevant term is entered.	1-Enter the search query "xyz123" (an irrelevant term) in the search bar. 2-Click the "Search" button. 3-Validate if the search results contain no relevant items related to the irrelevant search query.	"xyz123" (an irrelevant term)	No relevant items displayed in the search results.	No relevant items displayed in the search results. Expected output same as actual output then test-case is successful.
Search_video	To verify the search functionality of a website	Enter the search query "keyword" in the search bar. 2.Click the "Search" button. Validate if the search results contain relevant items related to the keyword	keyword	Displayed search results relevant to the search query.	Displayed search results relevant to the search query. Expected output same as actual output then test-case is successful.

14.2. Login

Test Case type	Test case	Test step	Test data	Expected output	Actual Output
Login_1	Verification of login with valid username and password	a. Type correct username b. Type correct password c. Press on login button	a. Valid username b. Valid password c. Button clicked	Login successful	Login successful. Expected output same as actual output then test-case is successful.
Login_2	Verification of login with valid username and invalid password	a. Type correct username b. Type correct password c. Press on login button	a. Valid username b. Invalid password c. Button clicked	Invalid credentials	Invalid credentials. Expected output same as actual output then test-case is successful.
Login_3	Verification of login with invalid username and invalid password	a. Type correct username b. Type correct password c. Press on login button	a. Invalid username b. Invalid password c. Button clicked	Invalid credentials	Invalid credentials. Expected output same as actual output then test-case is successful.

15. Github Link

<https://github.com/Alia24/EasyLearn-E-Learning-Platform>