

Exercisea - HW02

Non-functional requirements

1. Performance

The system should respond to user requests quickly and efficiently, with minimal latency.

2. Scalability

The system should be designed to handle large numbers of users and exercises, and should be easily scalable as the user base grows.

3. Security

The system should be designed with security in mind, with user data protected through encryption and secure login procedures.

4. Usability

The system should be easy to use and navigate, with clear and concise instructions for all features.

5. Reliability

The system should be reliable, with minimal downtime or errors.

6. Compatibility

The system should be compatible with a wide range of web browsers and devices, including desktop and mobile.

7. Maintainability

The system should be designed and built in a way that allows for easy maintenance and updates in the future.

Functional requirements

1. User registration

Users should be able to register and create an account on the system.

2. User authentication

Users should be able to log in and authenticate themselves on the system.

3. Category management

The system should allow administrators to create, update, and delete categories.

4. Exercise management

The system should allow administrators to add, update, and delete exercises within categories.

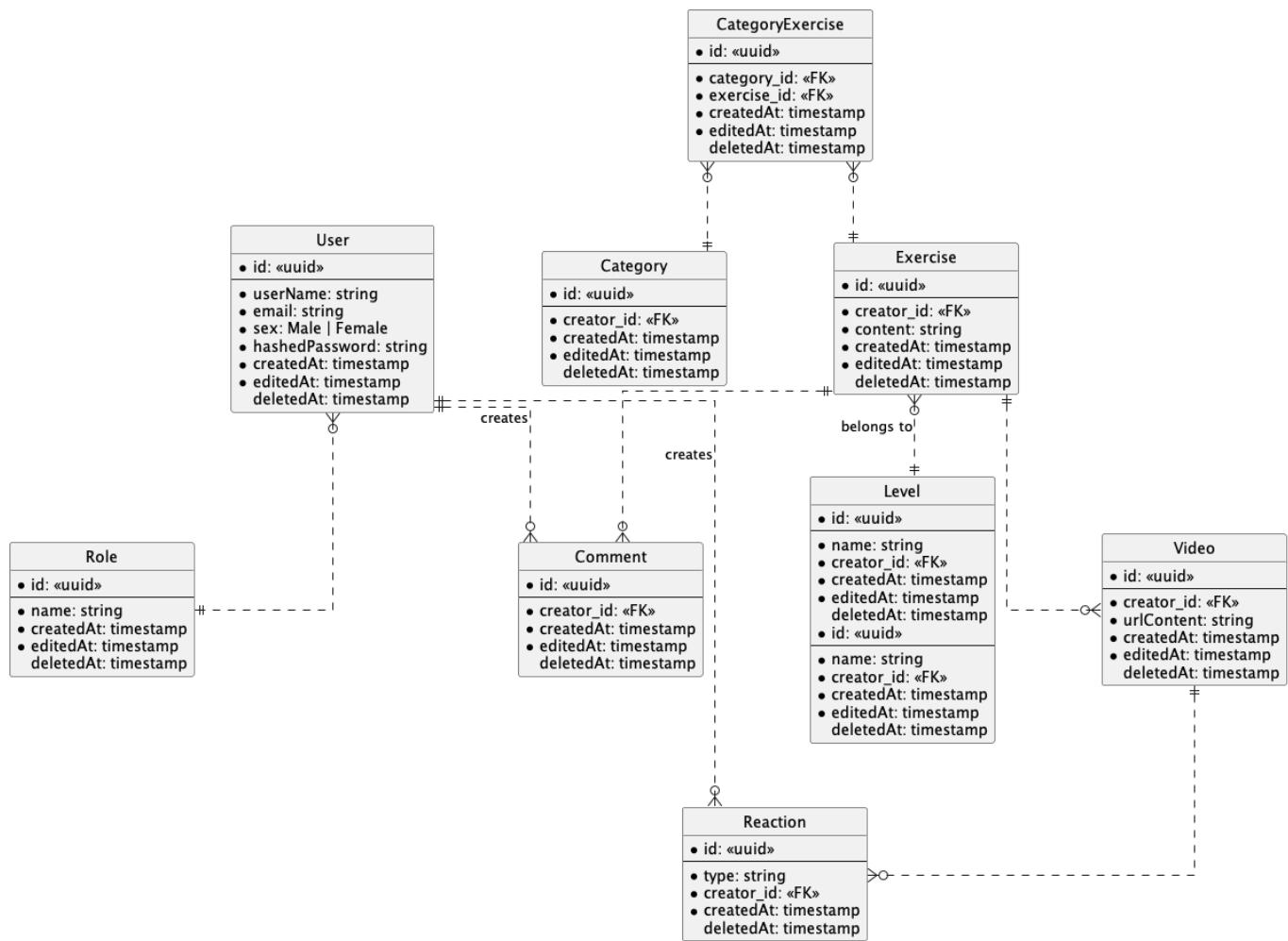
5. Commenting

Users should be able to add comments to exercises and categories.

6. Search

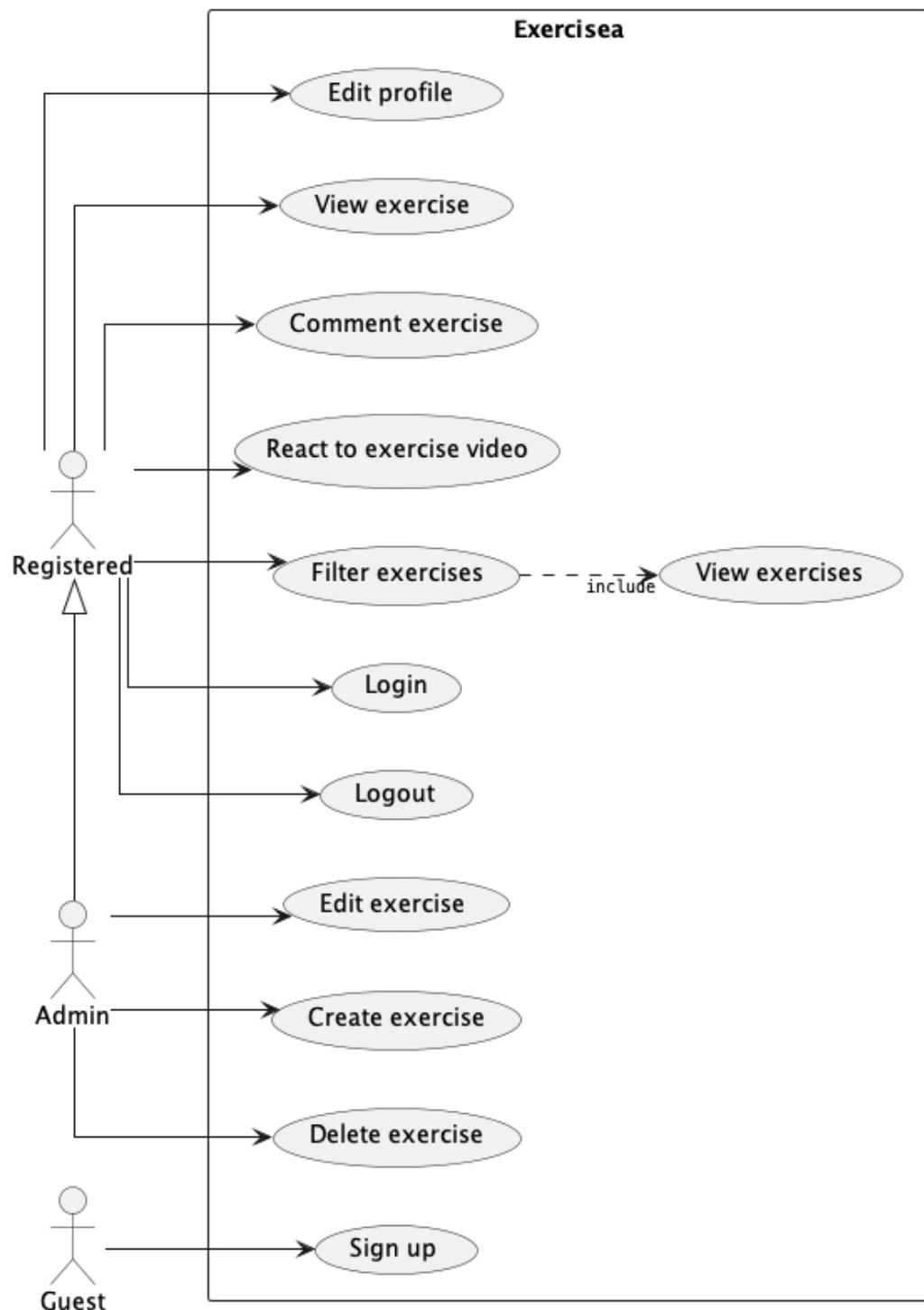
Users should be able to search for exercises and categories using keywords.

ERD



Use Case Diagram

Exercisea Use Case diagrams



Use Case: Login

Actors: Registered

Purpose: To log in user

Type: Primary

Overview: User fills the login form and clicks submit button. This should either log him in or display an error message.

Typical course of events:

1. Fills in e-mail and password
2. Clicks login button
3. The system accepts the logging credentials
4. User is redirected to filter exercise

Alternative Courses:

3a. system can say the credentials are incorrect, thus an error message saying "Wrong email or password" is displayed.

Use Case: Logout

Actors: Registered

Purpose: To sign out the user out of the system

Type: Primary

Overview: Signs out the user when a sign out button is clicked.

Typical course of events:

1. User clicks the sign out button
2. User is signed out
3. User is redirected to the Homepage

Alternative Courses:

none

Use Case: Sign Up

Actors: Guest

Purpose: To register guest user

Type: Primary

Overview: This use case describes the process of registering a new guest user in the system.

Typical course of events:

1. The guest clicks on a Profile button.
2. The system displays the login form.
3. The guest chooses Sign up button
4. The guest fills in the required fields, such as name, email address, and password.
5. The guest submits the registration form.
6. The system validates the form data.
7. If the validation is successful, the system creates a new guest user account.
8. The system displays login form.

Alternative Courses:

3. a) The guest fills in the login form
 1. The system displays an error message indicating that the email address is unknown
4. a) The guest provides invalid or incomplete information in the sign up form.
 1. The system displays an error message indicating that the user provided invalid or incomplete information in the sign up form.
 2. The guest corrects the errors and submits the form again.
5. a) The system cannot validate the form data.
 1. The system displays error messages indicating the validation errors.
 2. The guest corrects the errors and submits the form again.

Use Case: Filter exercises

Actors: Registered

Purpose: Filter exercises based on user preference

Type: Primary

Overview: A user will be guided through a exercise filter, which will tailor the page experience exactly to his preferences

Typical course of events:

1. User clicks the Exercises button in the navigation bar
2. A page with option to select difficulty level will be displayed
3. User selects a difficulty
4. User is forwarded to Category page
5. User selects a category he is interested in
6. User is forwarded to View all exercises page (**include View all exercises**)

Alternative Courses:

none

Use Case: View exercises

Actors: Registered

Purpose: This use case aims to allow registered users to view exercise videos by category.

Type: Primary

Overview: Upon successfully logging in, the registered user can select a specific category of exercises to view the corresponding exercise videos. The user can then click on a video title to watch the exercise video.

Typical course of events:

1. The system displays a list of exercise videos with their corresponding titles under the selected category.
2. The exercise thumbnail is rendered and displayed with the correct contents

Alternative Courses:

1. a) User has selected a filter
 1. All exercises are filtered based on the filter

Matrix of screens

| | Homepage | ExerciseFilter | Exercise | Contact | UserAccount | Login | SignUp |
|------------------------------|----------|----------------|----------|---------|-------------|-------|--------|
| Kategorie- Název | | D | | | | | |
| Kategorie- Popis | | D | | | | | |
| Partie- Název | | D | | | | | |
| Partie- Popis | | D | | | | | |
| Cviky- Název | | | D | | | | |
| Cviky- Popis | | | D | | | | |
| Cviky- Odkaz- na-video | | | ED | | | | |
| Uživatel- Jmeno | | | | D | | EM | EDM |
| Uživatel- Email | | | | D | | EM | EDM |
| Uživatel- Heslo | | | | | E | | EM |
| Uživatel- Role | | | | | | | |
| Cviky- Komentar | | | EDM | | | | |
| Video- Reakce | | | EDM | | | | |

Tento projekt je vypracovávaný v tíme dvoch

A Web Page

Home About Exercises Contact

<https://exercisea.com>


EXERCISEA
Sore today, strong tomorrow

Some text



A Web Page
<https://exerciseo.com>

 EXERCISEA

Home About Exercises Contact [!\[\]\(f0cb329cfe08226b7cb89b09d2e7a8ad_img.jpg\)](#) [!\[\]\(a8f275fefb8ce6180a3e43e90eb7c99c_img.jpg\)](#) [!\[\]\(97b4180225e7f86723979a8938ec7eda_img.jpg\)](#) [!\[\]\(ef343d03cf19c724d9c75e4aa5e03574_img.jpg\)](#)

About text ...

Some text here



This image shows a woman in a dynamic dance or exercise pose. She is wearing a red sports bra and blue leggings with yellow and red stripes. Her body is angled, with one arm raised and the other bent at the elbow. Her legs are also bent, with one leg lifted high. The background is a gradient of blue and pink, creating a vibrant and energetic atmosphere.

A Web Page

https://exercisea.com

Home About Exercises Contact

f i t o

Choose your level...

Beginner

Advanced

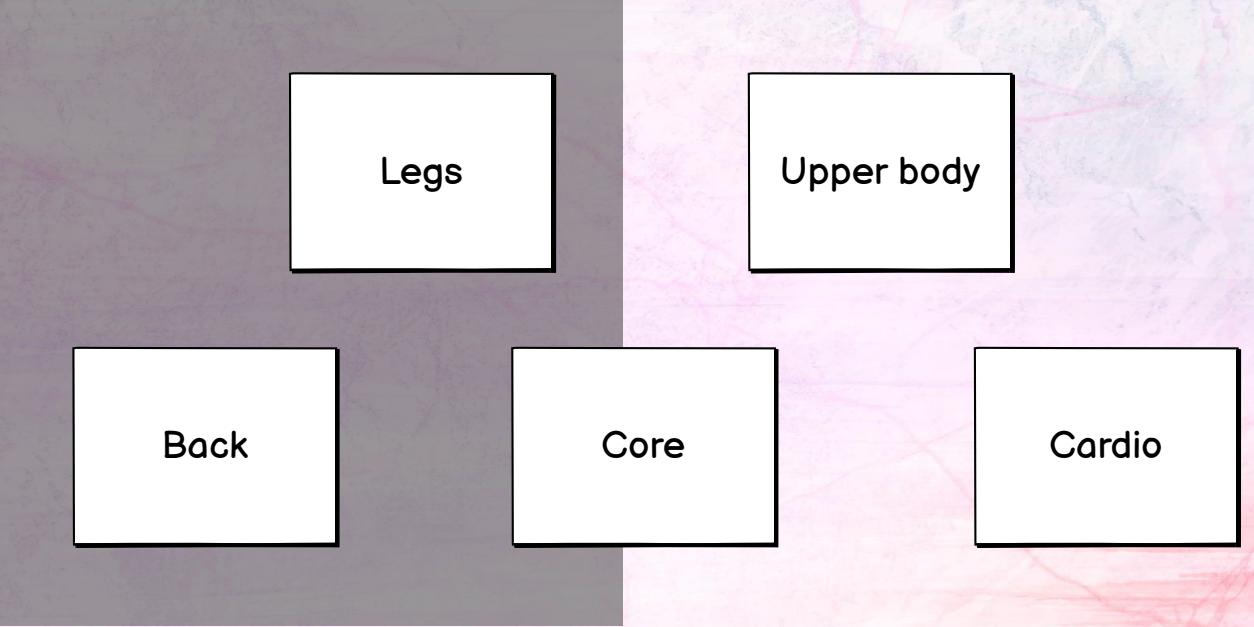
Intermediate

The image shows a web page titled "A Web Page" with the URL "https://exercisea.com". The page has a header with a logo of a person in a meditative pose, the text "EXERCISEA", and a navigation menu with links for Home, About, Exercises (which is highlighted in a grey box), and Contact. Below the header is a large, semi-transparent background image of a person in a meditative pose. Overlaid on this image are three white rectangular boxes with black borders. The top-left box contains the word "Beginner", the top-right box contains "Advanced", and the bottom-center box contains "Intermediate". To the left of the boxes, the text "Choose your level..." is displayed. The overall theme is fitness or yoga.

A Web Page
<https://exercisea.com>

 EXERCISEA Home About Exercises Contact [!\[\]\(315a30994a53bdc7c0b3b5d60bd68a8f_img.jpg\)](#) [!\[\]\(181a24b40354f1ba57a7fb3f53b75d85_img.jpg\)](#) [!\[\]\(abdaa36b47fa525142932abbc2512e5b_img.jpg\)](#) [!\[\]\(3c06aedd4ec46a7f04c955a640190357_img.jpg\)](#)

Body parts...



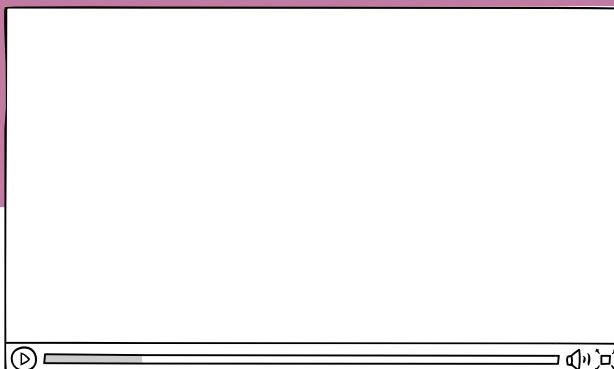
- Legs
- Upper body
- Back
- Core
- Cardio

A Web Page
<https://exercisea.com>

 EXERCISEA Home About Exercises Contact 

Back workout for beginners

Some text



Play button icon and volume control icon.

Write a message...



A Web Page

https://exercisea.com

 EXERCISEA

Home About Exercises Contact



GET IN TOUCH

Got questions? Just contact us!

Name _____ Surname _____

E-mail _____

Message _____



A Web Page

https://exercisea.com

EXERCISEA

Home About Exercises Contact

f i Twitter Person

Login

Username

E-mail

Password

Login

Or Sign Up Using

G f Twitter

Sign Up

A Web Page
<https://exercisea.com>

EXERCISEA

Home About Exercises Contact

f i t o

Sign Up

Name

Surname

Username

E-mail

Password

Password again

Sign Up

