

ASP.NET Fundamentals Exam – 18 February 2024

SeminarHub

Problems for the exam for the "[ASP.NET Core Fundamentals](#)" course @ SoftUni

Sellorama is an online platform where people can easily find and sign up for various seminars and events. It's a place where organizers and participants come together to explore, learn, and share knowledge on a wide range of topics..

1. Technological Requirements and Overview

2. Identity Requirements

3. Database Requirements

4. Page Requirements

Index Page (logged-out user)

Login Page (logged-out user)

Register Page (logged-out user)

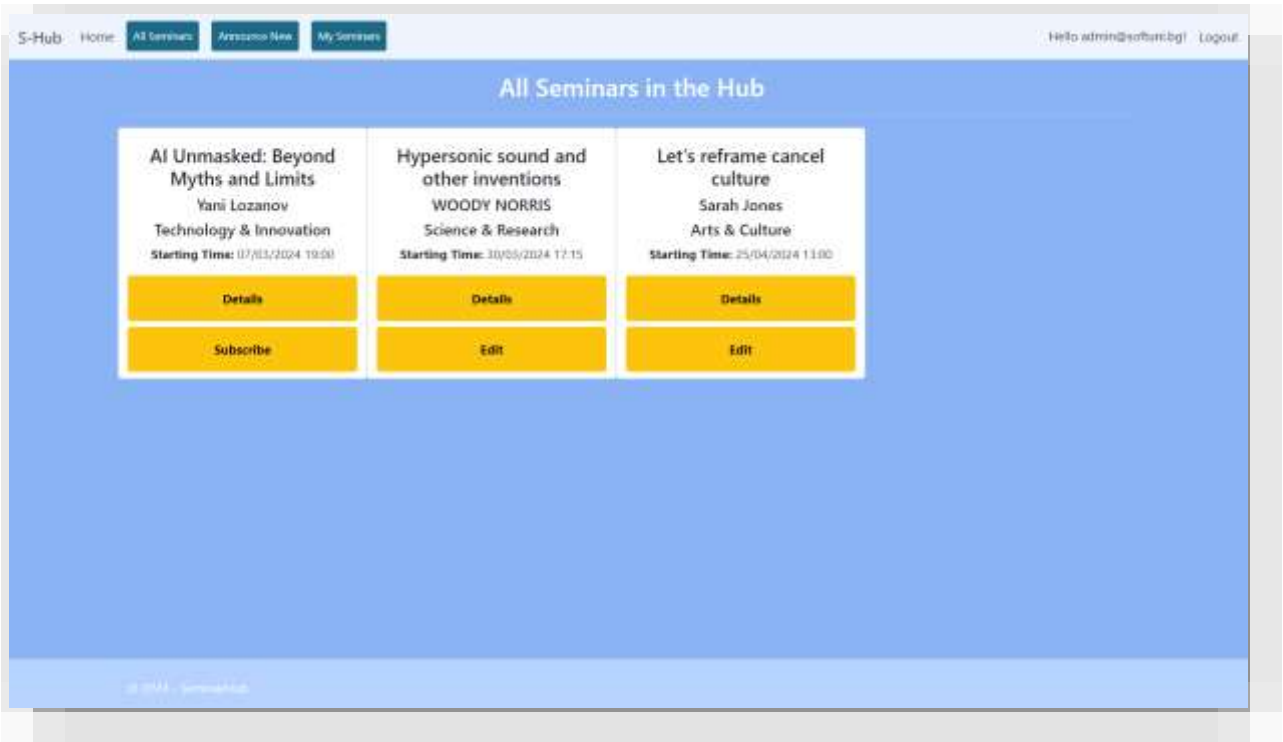
/Seminar/Add (logged-in user)

The screenshot shows the 'Announce Seminar' form in the SeminarHub application. The form is set against a light blue background and includes the following fields and elements:

- Seminar Title:** A text input field.
- Lecturer:** A text input field.
- More info:** A large text area for additional details.
- Date of Seminar:** A date and time picker showing 'dd/MM/yyyy HH:mm'.
- Duration:** A text input field with the value '30-120 min'.
- Select Category:** A dropdown menu with the text 'Select Category...'.
- Announce:** A prominent yellow button to submit the form.

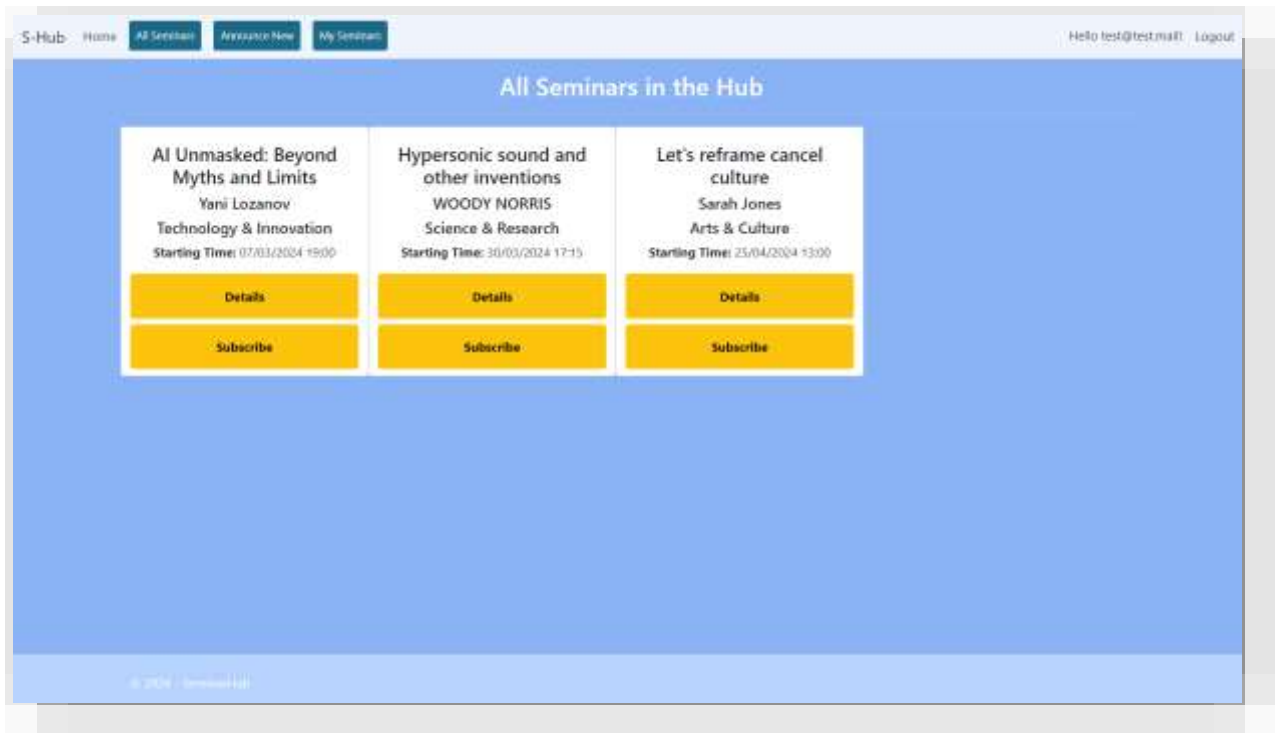
The top navigation bar includes links for 'S-Hub', 'Home', 'All Seminars', 'Announce New', and 'My Seminars'. The user is logged in as 'Hello krasv@abiv.bg!' with a 'Logout' link. The footer displays '© 2024 - SeminarHub'.

/Seminar/All (logged-in user, creator of a seminar)



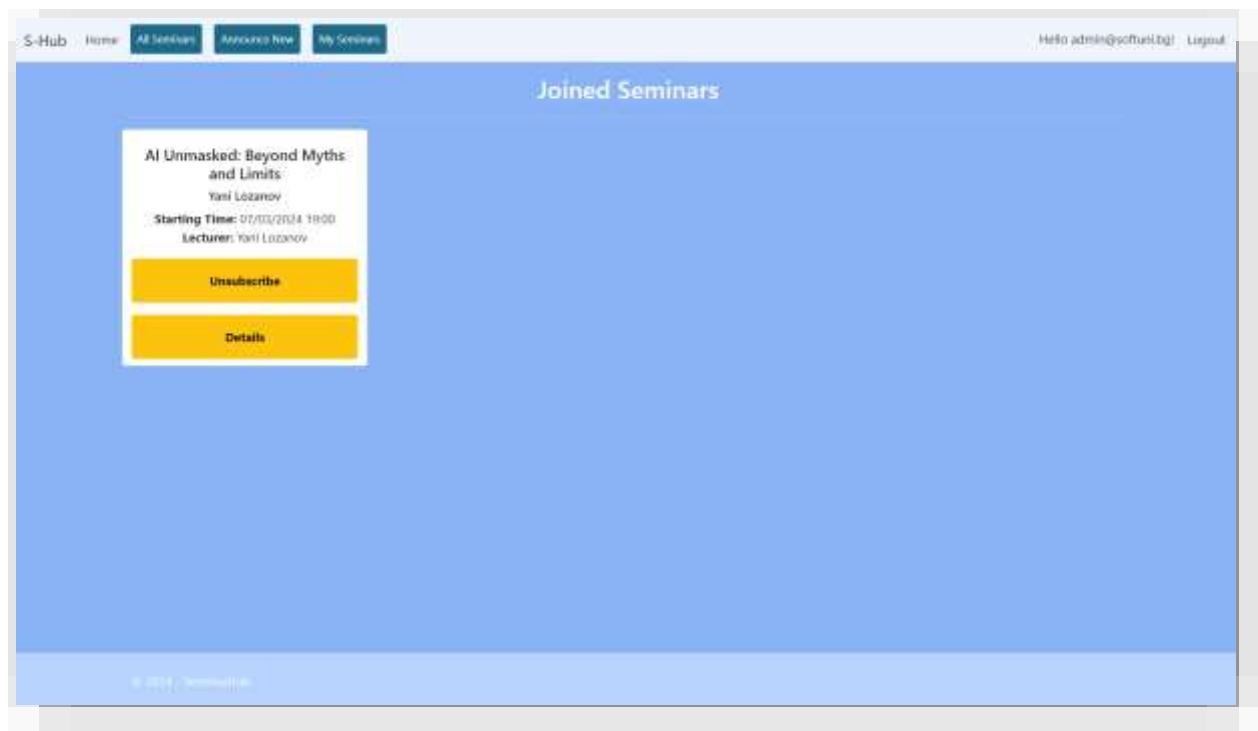
NOTE: If the user is **logged in** and tries to go to the **Home page**, the application must redirect them to the **/Seminar/All**.

/Seminar/All (logged-in user, not creator of a seminar)



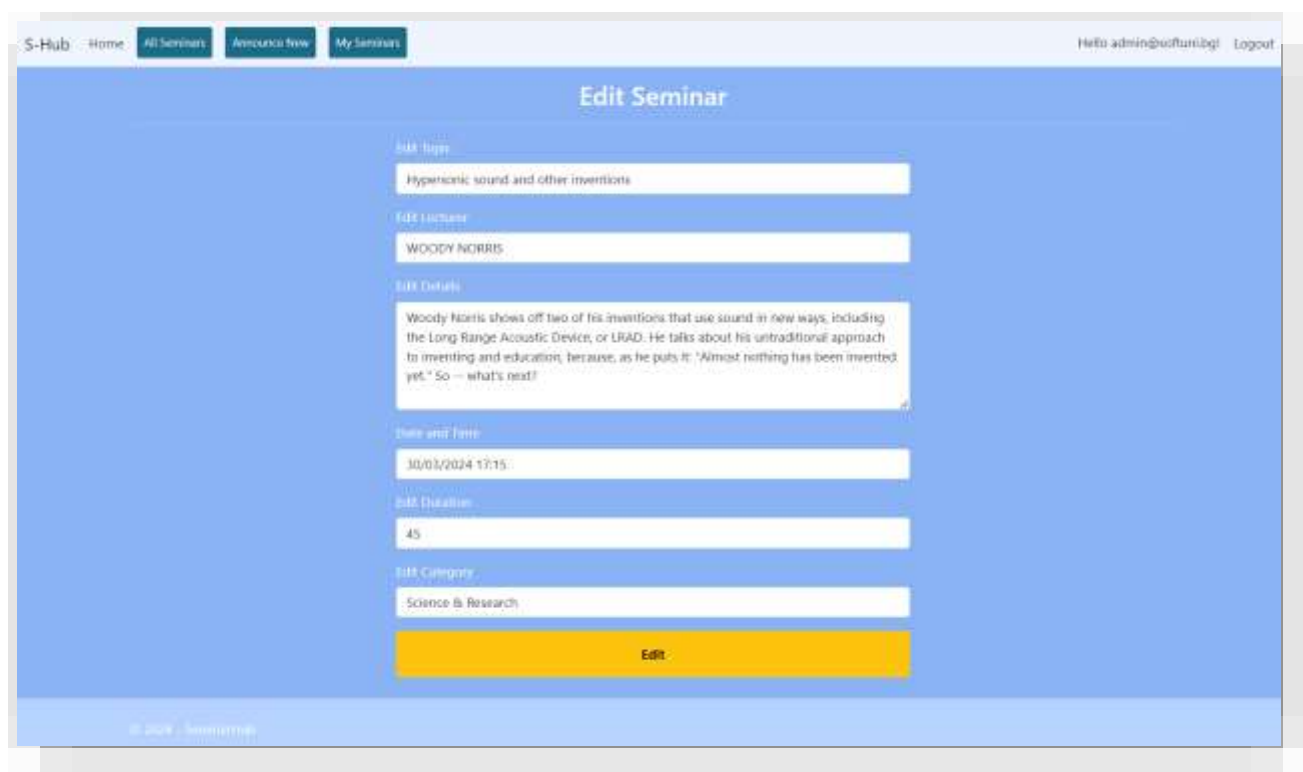
NOTE: If the user is **logged in** and tries to go to the **Home page**, the application must redirect them to the **/Seminar/All**.

/Seminar/Joined (logged-in user)



NOTE: the **DateTime** format is recommended, if you are having troubles with the one in the image, you are **free** to use **another** one.

/Seminar/Edit/{id} (logged-in user)



NOTE: the **DateTime** format is recommended, if you are having troubles with the one in the image, you are **free** to use **another** one.

/Seminar/Join?id={id} (logged-in user)

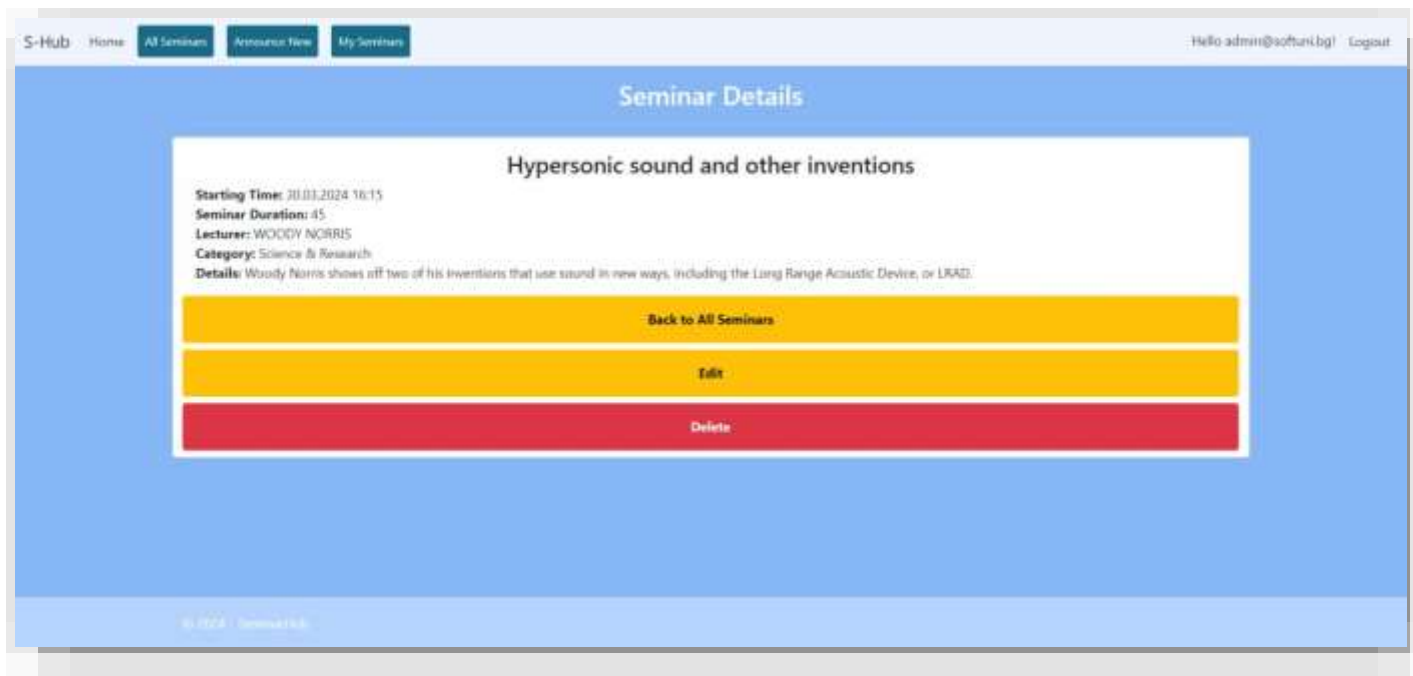
Adds the selected seminar to the user's collection of seminars. If the seminar is already in their collection, it shouldn't be added. If everything is successful, the user must be redirected to their collection **"/Seminar/Joined"** page.

/Seminar/Leave?id={id} (logged-in user)

Removes the selected seminar from the user's collection of seminars. If everything is successful, the user must be redirected to **"/Seminar/Joined"** page.

NOTE: The templates should look **EXACTLY** as shown above.

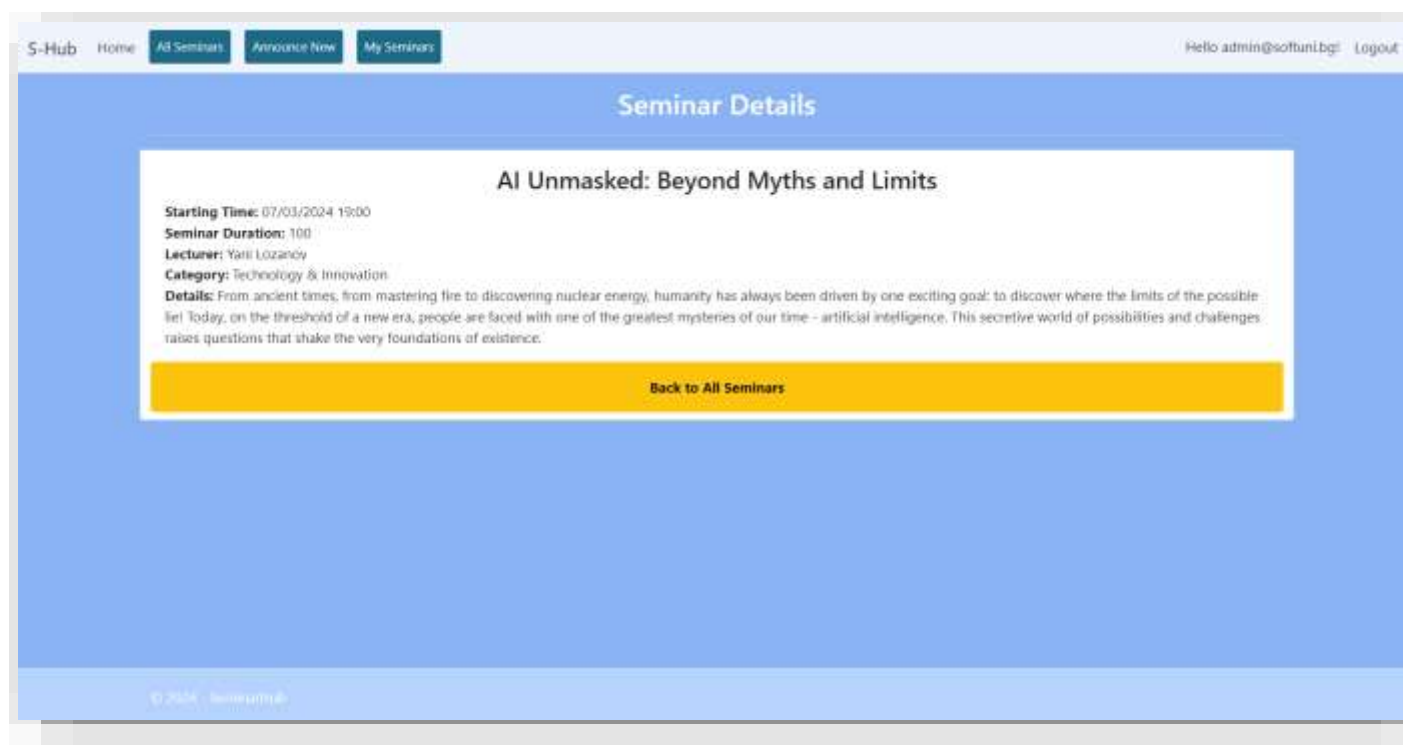
Seminar/Details/{id} (logged-in user, creator of a seminar)



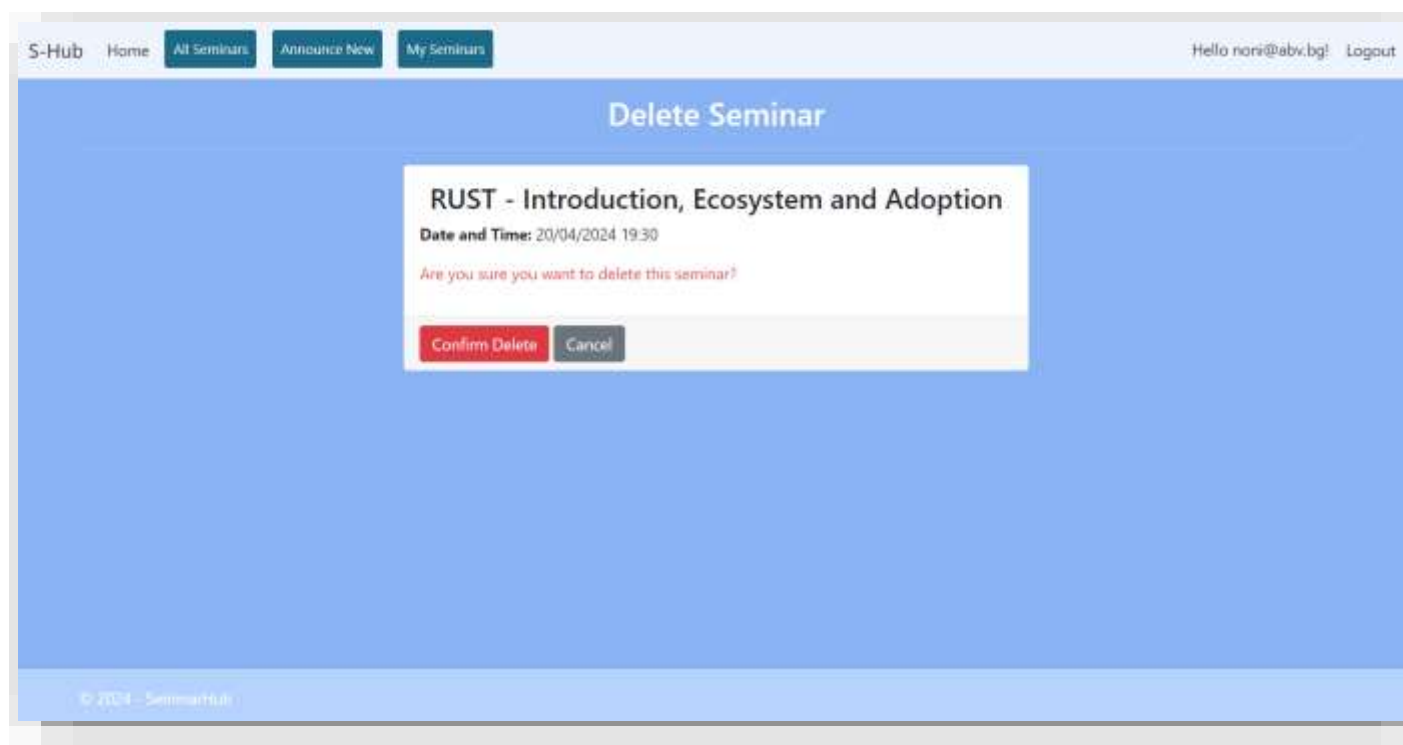
Note: If the **currently logged-in user is the creator of the seminar**, the "Delete" and "Edit" buttons should be visible, allowing them full access to the seminar functionalities.

However, if the **logged-in user is not the creator** of the seminar, the "Delete" and "Edit" buttons should not be visible. This ensures that only the seminar's creator can access its functionalities.

Seminar/Details/{id} (logged-in user, not creator of a seminar)



Seminar/Delete/{id} (logged-in user, creator of a seminar)



5. Functionality

The functionality of the **SeminarHub** Platform is very simple.

Users

Guests can **Register**, **Login** and view the **Index Page**.

Users can **add seminars**, **edit and delete seminars only they have added**, **subscribe for seminars they haven't added** and **view the details of all seminars**.

Users can see **added seminars** by all **users** on the **Home Page (/Seminar/All)**.

If the user is the creator of the seminar, they can see the **[Edit]** and **[Delete]** buttons. If the user is not the creator of the seminar, they can join the seminar.

Seminar

Seminar can be **added** by **users**. All created **seminars** are visualized on the **Home Page (/Seminar/All)**.

Seminars are visualized on the **Home Page (/Seminar/All)** with **some** of their information.

Seminars are visualized on the **Home Page (/Seminar/All)** with two buttons:

- **First button:**
 - **[Details]**
- **Second button:**
 - If the user **IS** the **creator** of the seminar – **[Edit]**;
 - If the user **IS NOT** the **creator** of the seminar – **[Subscribe]**

The **[Details]** button displays a new page with **all** of the **info** for the **selected seminar**.

The **[Edit]** button displays a new page with a form, filled in with **all** of the **info** for the **selected seminar**. Users can change this info and save it.

The **[Subscribe]** button adds the **seminar** to the **user's** collection of **seminars**, **unless it is already added**.

Users have a **My Seminars** page where only the **seminars** in their collection are visualized.

- The **[Unsubscribe]** button **removes** the **seminar** from the **user's** collection of **seminars**.

Redirections

- Upon successful **Login** of an **IdentityUser**, you should be redirected to the **/Seminar/All**.
- Upon successful **Creation** of a **Seminar**, you should be redirected to the **/Seminar/All**.
- Upon successful **Adding** a **Seminar** to the **User's** collection, should be redirected to the **/Seminar/Joined**.
- Upon successful **Editing** of a **Seminar**, you should be redirected to the **/Seminar/All**.
- Upon successful **Deletion** of a **Seminar**, you should be redirected to the **/Seminar/All**.
- Upon successful **Removal** of a **Seminar** from the **User's** collection, should be redirected to the **/Seminar/Joined**.
- If a **User** tries to **add** an **already added Seminar** to their **collection**, they should be redirected to **/Seminar/All**.
- Upon **successful deletion** or **abort deletion**, the user should be redirected to **Home Page (/Seminar/All)**.
- Upon successful **Logout** of a **User**, you should be redirected to the **Index Page**.
- If any of the **validations** in the POST forms **don't pass**, **redirect to the same page (reload/refresh it)**.

6. Security

The **Security** section mainly describes access requirements. Configurations about which users can access specific functionalities and pages:

- **Guest** (not logged in) users can access the **Index** page.
- **Guest** (not logged in) users can access the **Login** page.
- **Guest** (not logged in) users can access the **Register** page.
- **Guests** (not logged in) cannot access **Users-only** pages.
- **Users** (logged in) cannot access **Guest** pages.
- **Users** (logged in) can access the **Seminar/Add** page and functionality.
- **Users** (logged in) can access the **Seminar/Details** page and functionality.
- **Users** (logged in) can access the **Seminar/Edit** page and functionality.
- **Users** (logged in) can access the **Seminar/Delete** page and functionality.
- **Users** (logged in) can access the **Seminar/All** page.
- **Users** (logged in) can access the **Joined** page.
- **Users** (logged in) can access **Logout** functionality.
- **Users** (logged in) cannot access the **Seminar/Edit** page of a **Seminar** that have another user as a organizer.
- **Users** (logged in) cannot access the **Seminar/Delete** page of a **Seminar** that have another user as a organizer.

7. Code Quality

Make sure you provide the best architecture possible. Structure your code into different classes, follow the principles of high-quality code (**SOLID**). You will be scored for the **Code Quality** and **Architecture** of your project.

8. Scoring

Identity Requirements – 5 points

Database Requirements – 10 points

Template Requirements – 10 points

Functionality – 50 points

Security – 5 points

Code Quality – 10 points

Data Validation – 10 points