

Website for event aggregation

A brief description of the system

The goal is to create a website that allows organizers to enter events and collect registrations for them. Any registered user can sign up.
The website should also be equipped with an event search engine (with several criteria) and an API that will allow for the presentation of these on other websites/services.

Main functions of the system

- User registration and login.
- Creating and editing events by the organizers (user with a special role).
- Commenting on events by logged-in users.
- Signing up for events.
- Event search engine.
- API for other websites/services that would like to present events.

General guidelines

- Website development using Spring, JPA (Hibernate) and Thymeleaf as the view layers.
- Introducing the division within the application into DAO, services, controllers and implementing appropriate logics in each of them
- Securing access to the application and its functionalities using Spring Security.

Functionalities

Home page

- creating the first controller and a view file
- creating files with style/script definitions (bootstrap + possible own ones) that will be attached to each subsequent page (include)
- the page should bear the name of the website and the Log in and Sign up buttons in the top section

User registration

- A registration form containing:
 - login (email)—checking for the correctness of the email
 - password—must consist of at least 8 characters, but not more than 30



Odwiedź nas

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- displayed name—the field cannot be empty or contain only whitespace, and the maximum length is 50 characters
- A user with a given email can register only once.
- A user should have associated roles in the system that will cover at least two cases: the organizer and the ordinary user. Every registering person automatically gets the “standard user” role.
- The password should be stored in a database in a form that prevents snooping/recovery.

User login

- A login form containing a login and password.
- Logging in using Spring Security (appropriate configuration to be created).
- After successful logging in, the user should be redirected to the home page where instead of the Log in/Sign up buttons the following information will be displayed: “Logged in as: email”.

Adding a new event

- An event must contain at least:
 - title—the field cannot be empty or contain only whitespace
 - dates from/to—mandatory (optional checking whether the date is a future date)
 - description—minimum 20 characters.
- The event must be associated with the user who has added it.

List of events

- On the Home page, in the central part, a list should be placed that contains a list of all current events.
- Each element of the list should contain:
 - highlighted headline with the title of the event
 - dates from/to of the event
 - first 50 characters of the description.
- Events should be sorted from the nearest to the most distant.

Event search engine

- At the top of the Home page, a form should be added that contains:
 - a text field to enter a phrase
 - optional: a dropdown field: future, ongoing and future, all
 - the Search button.
- The entered phrase is to be searched in the title.
- Search results should be presented on a separate page, in the same layout as on the Home page.



- The page with search results should also contain the search form as on the Home page, and its fields should be set according to the currently selected criteria.

Detailed view of the event

- A separate page where all the features of the event will be visible: title, dates from/to, full description.
- On the Home page and on the page with search results, the title should be hyperlinked so that when clicked, it will redirect the user to the specific event page

Adding comments to the event

- Below the general information about the event, a form for adding comments should be placed.
- A comment can be up to 500 characters long.
- Only a logged-in user can add a comment.
- Below the form, all comments added so far should be displayed, in the order from the latest one.

Signing up for an event

- On the event page, the option (button) to sign up for it should be available, but only for logged-in users.
- If the current user has already signed up for the event, relevant information and optionally a button to resign from the event should be displayed instead.
- Next to the general information about the event, a list of all currently registered users should be displayed.

API for other websites—listing of events

- The API should meet the REST recommendations.
- The method should return a list of all future events.
- Optionally, it can additionally enable filtering of the returned events by a date range.

Application for displaying events downloaded from the API

- Build a second application (Spring + Thymeleaf) that will consume the event API and display the list in some of its views.
- Optional: in the application, add the possibility of filtering events to a selected date range, using the filtering on the API side.



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Additional tasks and extensions

Possibility to add a picture to the event

- Adding the ability to add a graphic file to the Add/Edit event form.
- Saving the uploaded file to disk or to some external cloud storage service via API or creating such a service with your own API (advanced versions).
- Serving the file for displaying in the event details (plus possibly in other places).

Editing the event

- Additional page where editing the created event will be possible.
- Only the owner or administrator of the event can edit the event (new role for the user).
- The Edit option should appear at least on the order details page.

My events

- Section for a logged-in user where all events can be viewed, both those in which the user participated and those that the user owns.
- The latter should provide for the possibility to switch to editing (the mechanism from the previous task).
- The list should allow filtering by:
 - role:
 - all
 - organizer
 - participant
 - when:
 - future
 - ongoing and future
 - past
 - all
 - Date (option):
 - field From
 - field To

Additional requirements

- An aesthetic and functional way of presenting data should be ensured.
- Data collected from users should be pre-validated.



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