

Test Project

Web Technologies *PHP and JavaScript Module*

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Contents

Contents	2
Introduction.....	3
Description of project and tasks.....	3
Phase one – PHP	4
Database design	4
Organizer interface	4
Organizer login and logout	5
Event management	6
Ticket management.....	10
Session management.....	11
Channel management.....	13
Room management.....	14
Room capacity.....	15
Attendee API	16
Events overview	16
Event detail	18
Attendee login and logout	19
Event registration	20
Phase two – JavaScript.....	21
API Setup	21
Introduction	22
Events list.....	23
Event agenda	24
Session detail.....	25
Event registration	26
Attendee login.....	28
Notes.....	29
Submission Instructions to the Competitor.....	30
Equipment, machinery, installations, and materials required	31
Marking Scheme.....	31

Introduction

The agency responsible for organizing the WorldSkills Conferences needs a new web application helping them to manage the events and allowing attendees to sign up and see all information they need. It should be dynamically built so that it can later be shared with other member organizations which means that multitenancy is an important requirement.

Because this application will grow over time, important requirements are covered by automated tests.

Description of project and tasks

The project is split into two phases:

- phase one (morning, 3 hrs) for building the backend parts (admin interface and REST-API) using PHP (framework) and database
- phase two (afternoon, 3 hrs) for building the frontend parts (attendee interface) using HTML/CSS/JS (framework) and the REST-API provided for phase two.

Phase one – PHP

Database design

- Use your database (dbYY_competitor_day2) and import the schema/dump provided
- Extend your database to be able to store (do not modify/extend any existing table except if it is specifically noted as they will be resetted before every test run)
 - Event ratings
 - Attendees should be able to comment and rate events they have attended
 - Rating should be a full number between 1 and 5, where 1 is the lowest and 5 the highest rating
 - The date and time of the rating should be registered
 - Session ratings
 - Additional to the event rating, attendees should be able to rate sessions they have attended
 - Rating should be a full number between 1 and 5, where 1 is the lowest and 5 the highest rating
 - The date and time of the rating should be registered

*• Your additional tables need to follow the third normal form.

Formatted

Organizer interface

Create an organizer interface (Server Side Rendered using a PHP Framework) using the templates provided to

- manage events, sessions, channels, rooms and tickets (create, read, update)
- create a bar chart to see the occupancy rates of all rooms
- create dynamic ticket prices
- support multiple tenants

Because different organizers will use this backend, keep security in mind. It should not be possible to access events of other organizers or update events of other organizers.

Organizer login and logout

Because registering as a new organizer is not within the scope of this project, please update the first two organizers in the provided dump so that it is possible to log in with the following credentials:

- Email: demo1@worldskills.org Password: demopass1
- Email: demo2@worldskills.org Password: demopass2

WorldSkills Event Platform

Please sign in

Email
Password

Sign in

Specification:

Feature: A1 - Log in and log out as an organizer: As an organizer, I would like to log in and log out to the event platform so that I can access the functionality of the platform.

Scenario: Ala - Organizer login ok

Given I am on the "login" page

When I enter the specified email and password for an organizer

And press the "Sign in" button

Then I am forwarded to the organizer area

And organizer name and "Sign out" button become visible in the header

And page "Manage events" becomes visible

Scenario: Alb - Organizer login fail

Given I am on the "login" page

When I enter a wrong email and password combination for an organizer

or use login information of an attendee instead of an organizer

And press the "Sign in" button

Then I stay on the "login" page

And I see an error message "Email or password not correct"

Scenario: Alc - Organizer logout

Given I am logged in

When I press the "Sign out" button

Then I am forwarded to the "login" page

And organizer name and logout button and admin functions disappear

And I cannot reach the previous page by going back

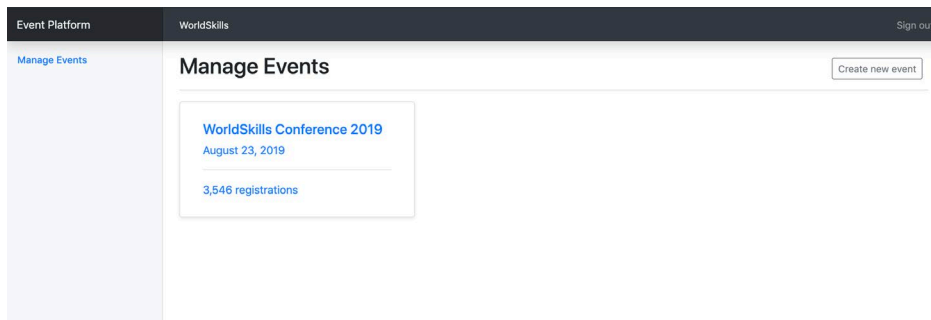
Event management

Organizers should be able to save all information about an event and its sessions in the database. Every organizer account can only see and edit its own events. The organizer may have zero or many events.

Specification:

Feature: A2 - Manage events: As an organizer I want to manage events so attendees can find events

Scenario: A2a - List all events
Given I am logged in
And I am on the "Manage events" page
Then I see a list of all events created by the current organizer sorted ascendingly by their date
And I see the total number of registrations for every event



The screenshot displays the 'Manage Events' interface. At the top, there's a dark header with 'Event Platform' and 'WorldSkills' on the left, and a 'Sign out' link on the right. Below the header, a sidebar on the left contains a 'Manage Events' link. The main content area is titled 'Manage Events' and includes a 'Create new event' button. A single event card is shown, titled 'WorldSkills Conference 2019' with the date 'August 23, 2019' and '3,546 registrations'.

Scenario: A2b - Show form for new event
Given I am logged in
And I am on the "Manage events" page
When I press "Create new event"
Then a form to enter event information appears

Event Platform
WorldSkills
Sign out

Manage Events

Manage Events

Create new event

Name

Name is required.

Slug

Date

Save event
Cancel

Scenario: A2c - Enter information for a new event
 Given a form to enter event information is shown
 When I enter info for the event (all fields required)
 And I press "Save event"
 Then the event is saved into the database
 And I am redirected to the detail page for the newly created event
 And a success message "Event successfully created" is shown

Scenario: A2d - Enter already used slug for a new event
 Given a form to enter event information is shown
 When I enter info for the event and use a slug which is already used by another event of the same organizer
 And I press "Save event"
 Then the event is not saved into the database
 And an error message "Slug is already used" is shown
 And my previously submitted input data is not lost

Scenario: A2e - Enter invalid slug for an event
 Given a form to enter event information is shown
 When I enter an invalid slug for the event
 And I press "Save event"
 Then the event is not saved into the database
 And an error message "Slug must not be empty and only contain a-z, 0-9 and '-' is shown

Scenario: A2f - Show form for updating event
 Given I am logged in
 And I am on the detail page of an event
 When I press "Edit event"
 Then a form to update event information appears

Scenario: A2g - Update event information
 Given a form to update information of an existing event
 When I change the prefilled old event information to new values
 And I press "Save event"



Then the updated event is saved into the database
And I am redirected to the detail page for the updated event
And a success message "Event successfully updated" is shown

Scenario: A2h - Show event detail
Given I am on the "Manage events" page
And I click on an event in the list
Then I am forwarded to the detail page on this event
And can see all basic information as well as all relations to the available rooms, channels, sessions and tickets

Event Platform
WorldSkills
Sign out

Manage Events

WORLDSKILLS CONFERENCE 2019

Overview

REPORTS

Room capacity

WorldSkills Conference 2019
August 23, 2019
Edit event

Tickets
Create new ticket

Normal
200.-

Early Bird
120.-
Available until June 1, 2019

VIP
400.-
100 tickets available

Sessions
Create new session

Time	Type	Title	Speaker	Channel
08:30 - 10:00	Talk	Keynote	An important person	Main / Room A
10:15 - 11:00	Talk	What's new in X?	Another person	Main / Room A
10:15 - 11:00	Workshop	Hands-on with Y	Another person	Side / Room C

Channels
Create new channel

Main
3 sessions, 1 room

Side
15 sessions, 2 rooms

Rooms
Create new room

Name	Capacity
Room A	1,000
Room B	100
Room C	100
Room D	250

Ticket management

For each event, organizers want to create different ticket types. Tickets can have, but don't need, one validity rule which can be one of:

- only purchasable until a given date (e.g. book before July 30, 2019 for an early bird ticket)
- only a defined amount of tickets is available (e.g. max 50 VIP tickets)

Please check existing records in the provided dump to see how validity rules should be stored.

Specification:

Feature: A3 – Manage tickets: As an organizer I want to manage tickets that attendees can buy in the frontend

Scenario: A3a – Show form for new ticket
 Given I am on the detail page of an event
 And I press "Create new ticket"
 Then a form to enter ticket information appears

Event Platform	WorldSkills	Sign out
Manage Events	WorldSkills Conference 2019	
WORLDSKILLS CONFERENCE 2019	August 23, 2019	
Overview		
REPORTS		
Room capacity		
	Create new ticket	
	Name <input type="text"/> <small>Name is required.</small>	
	Cost <input type="text" value="0"/>	
	Special Validity <input type="text" value="None"/>	
	Maximum amount of tickets to be sold <input type="text" value="0"/>	
	Tickets can be sold until <input type="text" value="yyyy-mm-dd HH:MM"/>	
	<input type="button" value="Save ticket"/> <input type="button" value="Cancel"/>	

Scenario: A3b – Enter information for a new ticket
 Given a form to enter session information is shown
 When I enter information for the ticket (~~all fields except validity rule~~
~~required~~name and cost field are required, also any field that is related
 to the selected special validity rule)
 And I press "Save ticket"
 Then the ticket is saved into the database
 And I am redirected to the detail page of the event it is assigned to
 And a success message "Ticket successfully created" is shown

Session management

For every event, organizers want to be able to list the current sessions and have the possibility to create new ones. Sessions are always assigned to a room which can not have another session during that time. Sessions are one of these two types:

- talk: A speaker presents a talk. Talks are included in the conference ticket and do not cost extra.
- workshop: A speaker holds a hand-on workshop with its attendees. Workshops can cost extra.

Specification:

Feature: A4 - Manage sessions: As an organizer I want to manage sessions that attendees can sign up for

Scenario: A4a - Show form for new session
 Given I am on the detail page of an event
 And I press "Create new session"
 Then a form to enter session information appears

Event Platform	WorldSkills	Sign out
Manage Events	WorldSkills Conference 2019	
WORLD SKILLS CONFERENCE 2019	August 23, 2019	
Overview		
REPORTS		
Room capacity		
	<h3>Create new session</h3> <p>Type <input type="text" value="Talk"/></p> <p>Title <input type="text"/> <small>Title is required.</small></p> <p>Speaker <input type="text"/></p> <p>Room <input type="text" value="Room A / Main"/></p> <p>Cost <input type="text" value="0"/></p> <p>Start <input type="text" value="yyyy-mm-dd HH:MM"/></p> <p>End <input type="text" value="yyyy-mm-dd HH:MM"/></p> <p>Description <input type="text"/></p> <p>Save session Cancel</p>	

Scenario: A4b - Enter information for a new session

Given a form to enter session information is shown

When I enter information for the session (all fields, except cost, required)

And I press "Save session"

Then the session is saved into the database

And I am redirected to the detail page of the event it is assigned to

And a success message "Session successfully created" is shown

Scenario: A4c - Enter invalid information for a new session - room booked

Given a form to enter session information is shown

When I choose a room which already has another session at the same time

And I press "save session"

Then the session is not saved into the database

And an error message "Room already booked during this time" is shown

And my previously submitted input data is not lost

Scenario: A4d - Show form for updating session

Given I am on the detail page of an event

And I click on the name of a session

Then a form to update session information appears

Scenario: A4e - Update session information

Given a form to update information of an existing session

When I change the prefilled old event information to new values

And I press "Save session"

Then the updated session is saved into the database

And I am redirected to the detail page of the event it is assigned to

And a success message "Session successfully updated" is shown

Channel management

A channel is used to group multiple sessions by a topic, for example management or user experience. Channels are assigned to exactly one event.

Specification:

Feature: A5 - Manage channels: As an organizer I want to manage channels of an event so sessions can get assigned to them

Scenario: A5a - Show form for new channel
Given I am on the detail page of an event
And I press "Create new channel"
Then a form to enter channel information appears

Event Platform	WorldSkills	Sign out
Manage Events WORLDSKILLS CONFERENCE 2019 Overview REPORTS Room capacity	<div>WorldSkills Conference 2019</div> <div>August 23, 2019</div> <hr/> <div>Create new channel</div> <div>Name</div> <div><input type="text"/></div> <div>Name is required.</div> <div> <input type="button" value="Save channel"/> <input type="button" value="Cancel"/> </div>	

Scenario: A5b - Enter information for a new channel
Given a form to enter channel information is shown
When I enter information for the channel (all fields required)
And I press "Save channel"
Then the channel is saved into the database
And I am redirected to the detail page of the event it is assigned to
And a success message "Channel successfully created" is shown

Room management

A room is assigned to exactly one channel and can have exactly one session at a time.

Specification:

Feature: A6 - Manage rooms: As an organizer I want to manage rooms which I can later assign to sessions

Scenario: A6a - Show form for new room

Given I am on the detail page of an event

And I press "Create new room"

Then a form to enter room information appears

Event Platform	WorldSkills	Sign out
Manage Events	WorldSkills Conference 2019	
WORLD SKILLS CONFERENCE 2019	August 23, 2019	
Overview		
REPORTS		
Room capacity		
	<h3>Create new room</h3> <p>Name</p> <input type="text"/> <p><small>Name is required.</small></p> <p>Channel</p> <input type="text" value="Main"/> <p>Capacity</p> <input type="text"/> <p>Save room Cancel</p>	

Scenario: A6b - Enter information for a new room

Given a form to enter room information is shown

When I enter information for the room (all fields required)

And I press "Save room"

Then the room is saved into the database

And I am redirected to the detail page of the event it is assigned to

And a success message "Room successfully created" is shown

Room capacity

Organizers want to see an overview of all sessions with information about the room capacity and number of attendees. With this information, they can see if a room is reaching its full capacity.

Please note that for all sessions of type talk, attendees don't need a separate ticket. For sessions of type workshop, they need a separate ticket.

Specification:

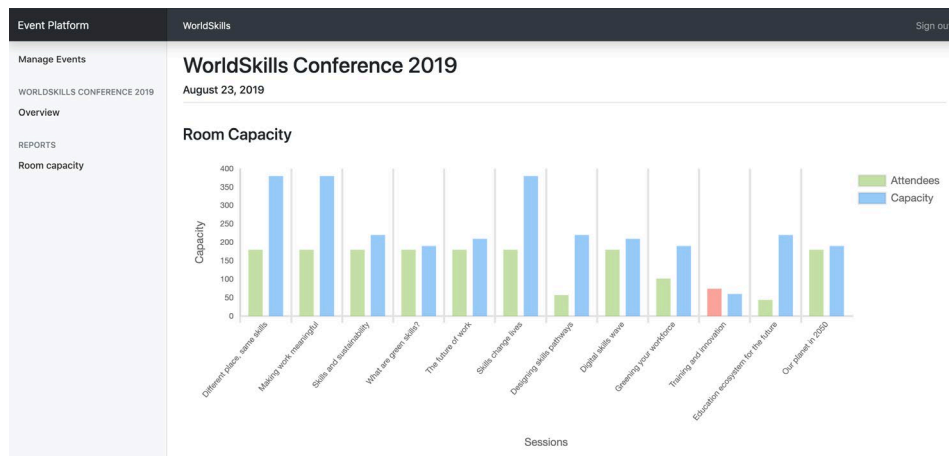
Feature: A7 - Room overview: As an organizer I want to see an overview of the sessions with the room capacity and number of attendees

Scenario: A7a - Show room overview

Given I am on the detail page of an event

When I press the link "Room capacity" in the sidebar

Then I see a bar chart displaying sessions along the horizontal axis, while the y-axis is showing the room capacity superimposed with the registered amount of attendees



Scenario: A7b - Room capacity exceeded

Given I am on the "Room capacity" page

When I have a room which exceeds its capacity

Then I see the visitors bar highlighted with a red color instead of green

Attendee API

Create a RESTful API (http://<hostname>/XX_JS-PHP_A/api/v1/...) to

- login and logout as an attendee
- read all upcoming events
- see the agenda for an event
- sign up and purchase a ticket for an event

PHPUnit tests

Tests for the PHP API are distributed with the mediafiles. Please see the following instructions to set them up and configure on your own server.

Setup:

1. Upload the API tests to your server
2. Configure the `.env` file of the API tests and provide correct database credentials and the URL where your API is available.

Running the tests:

Execute the following command on the server inside the directory of the api tests:

```
composer test
```

To only run a single test, you can use the following command for example:

```
composer test -- --filter B2EventDetailTest
```

Additional information for the REST-API tests/specification: the body contains some static example data, adjust it to fit the requirements. Placeholder parameters in the URL are marked with curly braces: {slug}

The tests are referenced by its function name [-> test<scenario-id><text>].

The order of properties in objects does not matter, but the order of items in an array does.

Events overview

When an attendee lands on the index page of the application, he will get a list with all upcoming events across all organizers. Events should be ordered ascendingly by their date.

Specification:

Feature: B1 - Read events: As a visitor I want to read the public data of all upcoming events so that I can display them in a list

Scenario: Bla - Read all upcoming events

Request

URL: /api/v1/events

Method: GET

Header:

Body: -

Response

If success [-> testBlaGetEvents]

Header: Response code: 200


```
Body: {"events": [{"id": 1, "name": "someText", "slug": "some-text",  
"date": "2019-08-15", "organizer": {"id": 1, "name": "someText", "slug":  
"some-text"}}]}
```

Event detail

When an event is selected, all information of the selected event should be returned in the same endpoint.

If a session has no cost or a ticket no description, NULL will be used.

The description of a ticket is generated as following:

- NULL if no special validity rule set
- "Available until {month} {day}, {year}" if special validity rule "date" is used (example: "Available until September 1, 2019")
- "X tickets available" if special validity rule "amount" is used (example: "30 tickets available" where 30 is the total amount of tickets and not the remaining ones)

Specification:

Feature: B2 - Read event: As a visitor I want to read all information about an event

Scenario: B2a - Read all detail information of a single event

Request

URL: /api/v1/organizers/{organizer-slug}/events/{event-slug}

Method: GET

Header:

Body: -

Response

If success [-> testB2aGetEventDetail | testB2aTicketValidity]

Header: Response code: 200

Body: {"id": 1, "name": "someText", "slug": "some-text", "date": "2019-08-15", "channels": [{"id": 1, "name": "someText", "rooms": [{"id": 1, "name": "someText", "sessions": [{"id": 1, "title": "someText", "description": "someText", "speaker": "someText", "start": "2019-08-15 10:00:00", "end": "2019-08-15 10:45:00", "type": "workshop", "cost": 50|null}]}]}, {"id": 1, "name": "someText", "description": "Available until July 7, 2019|null", "cost": 199.99, "available": true}]}

If event does not exist or was not created by the organizer [->

testB2aGetInvalidEvent]

Header: Response code: 404

Body: {"message": "Event not found"}

If organizer does not exist [-> testB2aGetInvalidOrganizer]

Header: Response code: 404

Body: {"message": "Organizer not found"}

Attendee login and logout

After signup (which is not within the scope of this project), attendees get assigned a random 6 characters long registration code which they need when entering an event. To avoid requiring yet another password, this registration code is also used for logging the user in on the website, together with his lastname as his login credentials. The registration code is shared across all events and is *not* only valid for a single event.

For testing purposes, the registration code and last name can be seen in the database dump.

On a successful login, data of the loggedin attendee gets returned together with a token which can be submitted with subsequent requests. For simplicity, the token is the username md5-hashed and is valid until the logout endpoint is called.

Specification:

Feature: B3 - Login and Logout as attendee: As a visitor I want to login/logout so that I can attend an event and see my registrations

Scenario: B3a - Attendee login

Request

URL: /api/v1/login

Method: POST

Header:

Body: {"lastname": "someText", "registration_code": "someText"}

Response

If success [-> testB3aCorrectLogin|SameLastname|SameRegistrationCode]

Header: Response code: 200

Body: {"firstname": "someText", "lastname": "someText", "username": "someText", "email": "someText", "token": "AUTHORIZATION_TOKEN"} (md5 hashed username, valid until logout)

If user login info not correct [->

testB3aInvalidLastname|RegistrationCode|Request]

Header: Response code: 401

Body: {"message": "Invalid login"}

Scenario: B3b - Attendee logout

Request

URL: /api/v1/logout?token={AUTHORIZATION_TOKEN}

Method: POST

Header:

Body: -

Response

If success [-> testB3bLogout]

Header: Response code: 200

Body: {"message": "Logout success"}

If invalid token [-> testB3bInvalidToken | testB3bAlreadyLoggedOut]

Header: Response code: 401

Body: {"message": "Invalid token"}

Event registration

Users will register and buy a ticket with this endpoint. The different ticket validity rules (date or amount) should be validated. Registrations should be sorted ascendingly by their id.

Specification:

Feature: B4 - Event registration: As a visitor I want to register for an event

Scenario: B4a - New event registration

Request

URL: /api/v1/organizers/{organizer-slug}/events/{event-slug}/registration?token={AUTHORIZATION_TOKEN}

Method: POST

Header:

Body: {"ticket_id": 1, "session_ids": [1, 2, 3]} (session_ids is optional)

Response

If success [-> testB4aCorrectRegistration]

Header: Response code: 200

Body: {"message": "Registration successful"}

If user is not logged in or token is invalid [-> testB4aLoggedOut]

Header: Response code: 401

Body: {"message": "User not logged in"}

If user already registered for this event [-> testB4aAlreadyRegistered]

Header: Response code: 401

Body: {"message": "User already registered"}

If ticket is not available anymore [-> testB4aInvalidTicket]

Header: Response code: 401

Body: {"message": "Ticket is no longer available"}

Scenario: B4b - Get registrations of a user

Request

URL: /api/v1/registrations?token={AUTHORIZATION_TOKEN}

Method: GET

Header:

Body: -

Response

If success [-> testB4bGetRegistrations | testB4bNewRegistration]

Header: Response code: 200

Body: {"registrations": [{"event": {"id": 1, "name": "someText", "slug": "some-text", "date": "2019-08-15", "organizer": {"id": 1, "name": "someText", "slug": "some-text"}}, {"session_ids": [1, 2, 3]}]}

If user is not logged in or token is invalid [-> testB4bLoggedOut]

Header: Response code: 401

Body: {"message": "User not logged in"}

Phase two – JavaScript

API Setup

The API needed for this part will be **provided after lunch** and can be set up with the following instructions. In case you want to start with part two before lunch, you have to use your own API from part one.

Automated setup:

Connect to your server through SSH and execute the following command (in your `home` directory):

```
setup-api
```

This will automatically set up the API and database on your server. After completion, the API is available at <http://XX.skill17.com/day2-afternoon/> (XX is your **IDworkstation number**).

Field Code Changed

The API is implemented according to the specification of the Attendees API in part one.

Manual setup:

The manual setup should only be done in case the automatic setup fails.

1. Download the API from http://wsi.skill17.com/day2_afternoon_api.zip **INSERT_URL_HERE** (only available in the afternoon)
2. Upload it to your server and unzip it into the folder `/home/competitor/www/day2-afternoon` (ensure that the unzipped files are directly located in the folder `/home/competitor/www/day2-afternoon` and not in another subfolder)
3. Create a new database called `day2_afternoon` and import the provided dump from part one
4. The API is now available at <http://XX.skill17.com/day2-afternoon/> (XX is your **workstation numberID**)

Field Code Changed

Introduction

Using the RESTful API (all data coming/going into database), create a frontend for attendees to browse information about the events, login/logout and register for an event. During registration, it should be possible to add additional workshops they want to attend.

The RESTful API supports POST requests with JSON or FormData bodies, but the correct request headers need to be set accordingly to the used body type.

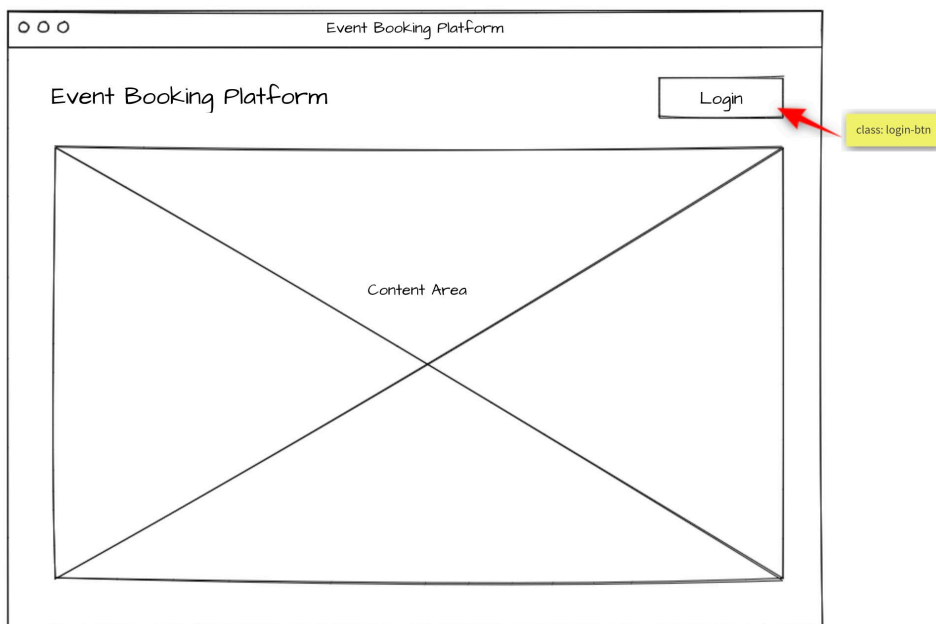
Interaction should show error/feedback messages based on response from the API where appropriate. Also, an error page should be shown when accessing an invalid URL.

Browsing all data is public and no user is required. But as soon as they want to register for an event, they need to be signed in.

Refreshing a page should always display the same page and it must be possible to share a page by URL so that all state is kept in the URL.

The layout should follow mockups exactly. The position of elements in design should be same as mockups.

The yellow bubbles in the mockups show classes and ids which have to be used for those elements to allow running automated tests. The yellow bubbles are not part of the design and do not have to be displayed in the browser.



Events list

When accessing the index page, all upcoming events are displayed with their organizer name and the date it takes place. By selecting an event, the event agenda will be shown.

Worldskills Conference 2019
Organizerdemo1, September 23, 2019

ng conf
Organizerdemo2, September 30, 2019

React Conf 2019
Organizerdemo1, October 24, 2019

class: event

Specification:

Feature C1 - List upcoming events: As an attendee, I want to see what events I can attend.

Scenario: C1a - List upcoming events

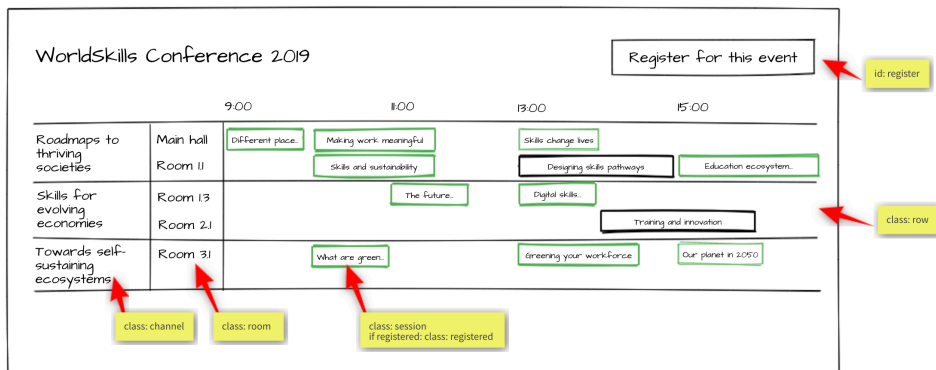
Given I am on the home page

Then I see a chronologically ordered list of upcoming events across all organizers

And I can click on an event

Event agenda

The agenda of the selected event is shown. If the user is logged in and is already registered for this event, all sessions with type **talk** are highlighted with a green border since they are automatically included in every event registration. Additionally, if the user signed up for additional sessions of type **workshop**, they will also be highlighted with a green border.



Specification:

Feature C2 - Display event agenda: As an attendee, I want to see what sessions are within an event.

Scenario: C2a - Display channels

Given I am on an event detail page

Then I see the channels of the event forming horizontal swimlanes

And the channels contain the rooms as "inside"-swimlanes

Scenario: C2b - Display talk and workshop sessions

Given I am on an event detail page

Then I see the timeline containing "9:00", "11:00", "13:00", "15:00"

And I see the sessions in the correct room swimlane starting and ending at the correct time

Scenario: C2c - Display registered sessions

Given I am on an event detail page

And I am logged in

And I am already registered for this event

Then I see all sessions of type talk highlighted with a green border

And I see all sessions of type workshop which I have signed up for highlighted with a green border

Session detail

When clicking on a session within the agenda, a detail page showing all information about this session will be shown.

Education ecosystem for the future - Workshop

In our fast-changing world, traditional forms of education are becoming outdated. We need to redesign our education systems. What are approaches to learning work in this new world?

Speaker: Pavel Luksha

Start: 15:00

End: 17:00

Cost: 30.-

Specification:

Feature C3 - Display session details: As an attendee, I want to inform myself about the details of a session.

Scenario: C3a - Display session details

Given I am on an event detail page

When I click on a session

Then I see a detail page of the session containing title, description, speaker, start and end time, type and the cost (if it is set)

Event registration

After clicking on "register for this event", the user either sees the event registration form if he is logged in or gets redirected to the login form if he is not logged in.

On the event registration form, he can select the ticket type he wants. Unavailable tickets are greyed out and can't be selected. The API is responsible for this information and the validation, so it does not have to be handled in the frontend.

The user can also select additional sessions of type workshop he wants to attend. If a session has an additional cost, it will show up in the cost view and add to the total cost.

After clicking on "Purchase", the user will be registered for this event and the sessions he has selected and gets redirected back to the event detail page.

WorldSkills Conference 2019

☒ Normal Ticket 210.-
☐ Early Bird unavailable 110.-
☐ Hotel Package 300.-
50 tickets available

Select additional workshops you want to book:

☐ Designing skills path
☒ Education ecosystem
☐ Training and innovation

Event ticket: 210.-
Additional workshops: 30.-
Total: 240.-

Purchase

class: ticket
id: event-cost
id: additional-cost
id: total-cost
id: purchase
class: workshop

Specification:

Feature: C4 - Register for event: As an attendee, I want to be able to register for an event and pay the admission fee.

Scenario: C4a - Enter registration mode

Given I am on an event detail page

And I am logged in

Then I can click on a button to enter registration mode

And I see the ticket types and their cost

And I see a checkbox list of sessions of type workshop

And I see a cost view summary

And I see a disabled "Purchase" button

Scenario: C4b - Select ticket success

Given I am in registration mode of an event

When I select a ticket that is available

Then the ticket cost is displayed in the cost view summary

And the "Purchase" button is enabled

Scenario: C4c - Select ticket fail

Given I am in registration mode of an event

When I select a ticket that is not available

Then the ticket is not selected

And the "Purchase" button is not enabled

Scenario: C4d - Select workshop session

Given I am in registration mode in an event

When I tick a workshop session

Then the session receives a tick

And the price of the workshop is displayed under "Additional workshops" in the cost view

And the price of the session is added to the total cost

Scenario: C4e - Purchase

Given I am in registration mode in an event

When I select a ticket and I press the "Purchase" button

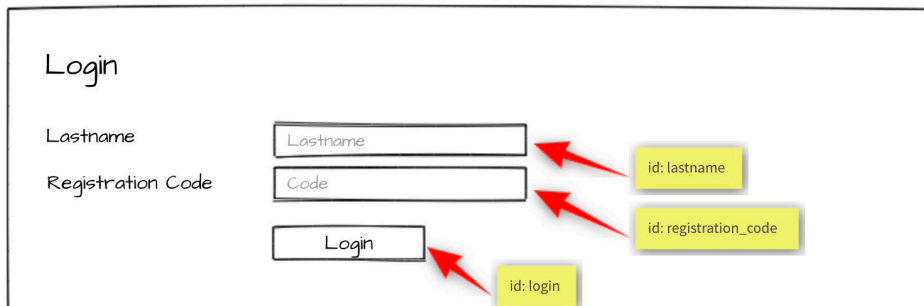
Then the registration is saved

And I get redirected to the event agenda

And a message appears "Registration successful"

Attendee login

When registering for an event, a login is required. After a successful login, the login button in the navigation should no longer be visible. Instead, the username of the currently logged in user should be displayed and a button to log out.



The diagram shows a login form with the following elements:

- Form Title:** Login
- Labels:** Lastname, Registration Code
- Input Fields:**
 - Lastname (with placeholder text 'Lastname')
 - Registration Code (with placeholder text 'Code')
- Buttons:** Login
- Annotations:**
 - A red arrow points from the 'id: lastname' label to the Lastname input field.
 - A red arrow points from the 'id: registration_code' label to the Registration Code input field.
 - A red arrow points from the 'id: login' label to the Login button.

Specification:

Feature: C5 - Log in and log out as an attendee: As an attendee, I would like to log in and log out to the event platform so that I can access my registrations and register for new events.

Scenario: C5a - Attendee login ok

Given I am on the "login" page
When I enter the specified lastname and registration code for an attendee
And press the "Login" button
Then I'm forwarded to the previous page
And username and "Logout" button become visible in the header

Scenario: C5b - Attendee login fail

Given I am on the "login" page
When I enter a wrong lastname and registration code for an attendee
And press the "Login" button
Then I stay on the "login" page
And I see an error message "Lastname or registration code not correct"

Scenario: C5c - Attendee logout

Given I am logged in
When I press the "Logout" button
Then I am forwarded to the "login" page
And username and logout button disappear
And I cannot reach the previous page by going back

Notes

- When you are done with the first phase resp. after lunch you may continue with the second phase.
- If you are done with part one before the lunch break, you can start with part two by using your own API and exchange it at the start of the afternoon with the provided API.
- Competitors must use one of the server-side and client-side frameworks/libraries that are provided.
- The provided template for the admin interface should be used. It can be enhanced to get better functionality for your site. The visual design of the *admin interface* will *not* be assessed.
- The design of the attendee interface can be based on the template of the admin interface. The visual design of the attendee interface *will* be assessed: a simple, clean and attractive design is expected, including choice of colors, typography and spacing. The design should be optimized for a minium window width of 1024px.
- For the admin interface it is important to use the selectors (class, id) as provided in the template. For the attendee interface it is important to use the selectors (class, id) as specified in the screen mockup (yellow bubbles).
- The specified database tables need to be implemented as provided. More tables may be added if needed. The given tables must not be changed. Provide a final SQL-dump and ERD screen as specified below.
- The API implementation should fulfill all requirements as stated in the description. All prefixes, RESTful-URLs and HTTP-Methods from the given API links must be implemented correctly and cannot be changed.
- Changes made in the data need to be propagated between frontend and backend in both directions.
- Update the first two organizers in the provided dump so it is possible to login to the system during assessment:
 - Organizer accounts:
 - Email: demo1@worldskills.org Password: demopass1
 - Email: demo2@worldskills.org Password: demopass2
- For the room capacity bar chart, you can use one of the provided JS-libraries (Charts.js, D3.js)

Submission Instructions to the Competitor

Morning: Files to be collected after the first phase on the server:

- Web service (http://<hostname>/XX_JS-PHP_A/api/v1/.)
- Admin area (http://<hostname>/XX_JS-PHP_A/) - initially shows login page
- Folder inside webroot (XX_JS-PHP_A)
- ERD screenshot named "XX_ERD.png" in "db-dump" folder inside of XX_JS-PHP_A
- Database dump named "XX_database.sql" in "db-dump" folder inside of XX_JS-PHP_A

Afternoon: Files to be collected after the second phase on the server:

- Front-end website (http://<hostname>/XX_JS-PHP_B/)
- Folder inside webroot (XX_JS-PHP_B/) - put all development files into XX_JS-PHP_B_dev.zip and leave only files for production-use in this directory.
- If the front-end root (http://<hostname>/XX_JS-PHP_B/) does not open the main page directly, have it open an index.html with a link to the main page for marking your front-end.

XX is your country code

The Web Service / REST-API will be assessed with the **automated test-framework** provided. Additional data may be used to test dynamic behavior.

It is recommended that you run the automated tests for the REST-API after implementing it locally or at least after uploading it to the server. Instructions to setup and use the tests for the API: see README.md in tests_api-php.

Manual assessment of other parts will be done using **Google Chrome**.

Equipment, machinery, installations, and materials required

It is expected that all Test Projects can be accomplished by Competitors based on the equipment and materials specified in the Infrastructure List*.

If any equipment or material is required that is not listed in the Infrastructure List, then it has to be listed here (in the table below - column headings may vary from skill to skill.)

WorldSkills International needs to approve any additional infrastructure requirements that are not listed in the Infrastructure List. Column headings may vary from skill to skill.

* (Definition: the Infrastructure List is the equipment, machinery, installations and materials supplied by the host country – it does not include tools and material to be supplied by Competitors and/or Experts)

ITEM	DESCRIPTION
Media Files	Contains: - DB dump - Template files for the admin-gui - Charts.js & D3.js incl. Documentation - Files for testing REST-API

Marking Scheme

SECTION	CRITERION	JUDG. MARKS	MEAS. MARKS	TOTAL
C1	Database	1.75	1.5	3.25
C2	Admin Backend	0	3.25	3.25
C3	Ticket and Session	0	1.5	1.5
C4	Organizer	1	2.25	3.25
C5	REST API	1.5	2.25	3.75
D1	Events list and agenda	0	3.75	3.75
D2	Session and Events	0	3	3
D3	General	1	3	4
D4	JS Quality	2.5	0	2.5
D5	Front end design	3	0	3
TOTAL		10.75	20.5	31.25