

Test Project

Web Technologies

Vaccination Campaign Management - FrontEnd

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Contents

Contents	2
Introduction	3
Description of project and tasks	3
Module E – JavaScript.....	4
<i>Introduction</i>	<i>4</i>
<i>Campaign list.....</i>	<i>5</i>
<i>Campaign agenda.....</i>	<i>6</i>
<i>Session detail</i>	<i>7</i>
<i>Vaccine registration.....</i>	<i>7</i>
<i>Citizen login</i>	<i>9</i>
Notes.....	10
Submission Instructions to the Competitor.....	10
Equipment, machinery, installations, and materials required.....	10
Marking Scheme	11

Introduction

In 2021, the second wave of Covid-19 has hit Vietnam and the world. In order to reach community immunity, the National Covid-19 Vaccination Campaign had to be implemented as soon as possible. The government, who is responsible for organizing the Covid-19 Vaccination Campaign, needs a new web application helping them to manage the campaign and allowing the unvaccinated and vaccinated citizens to sign up and see 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:

- Module D (morning, 3.5 hrs) for building the backend parts (admin interface and REST-API) using PHP (framework) and database
- Module E (afternoon, 3.5 hrs) for building the frontend parts (citizen interface) using HTML/CSS/JS (framework) and the REST-API provided for phase two.

Module E – JavaScript

Introduction

Using the RESTful API that is created in the Module D to create a frontend for citizens to browse information about the campaigns, login/logout and register for a campaign.

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.

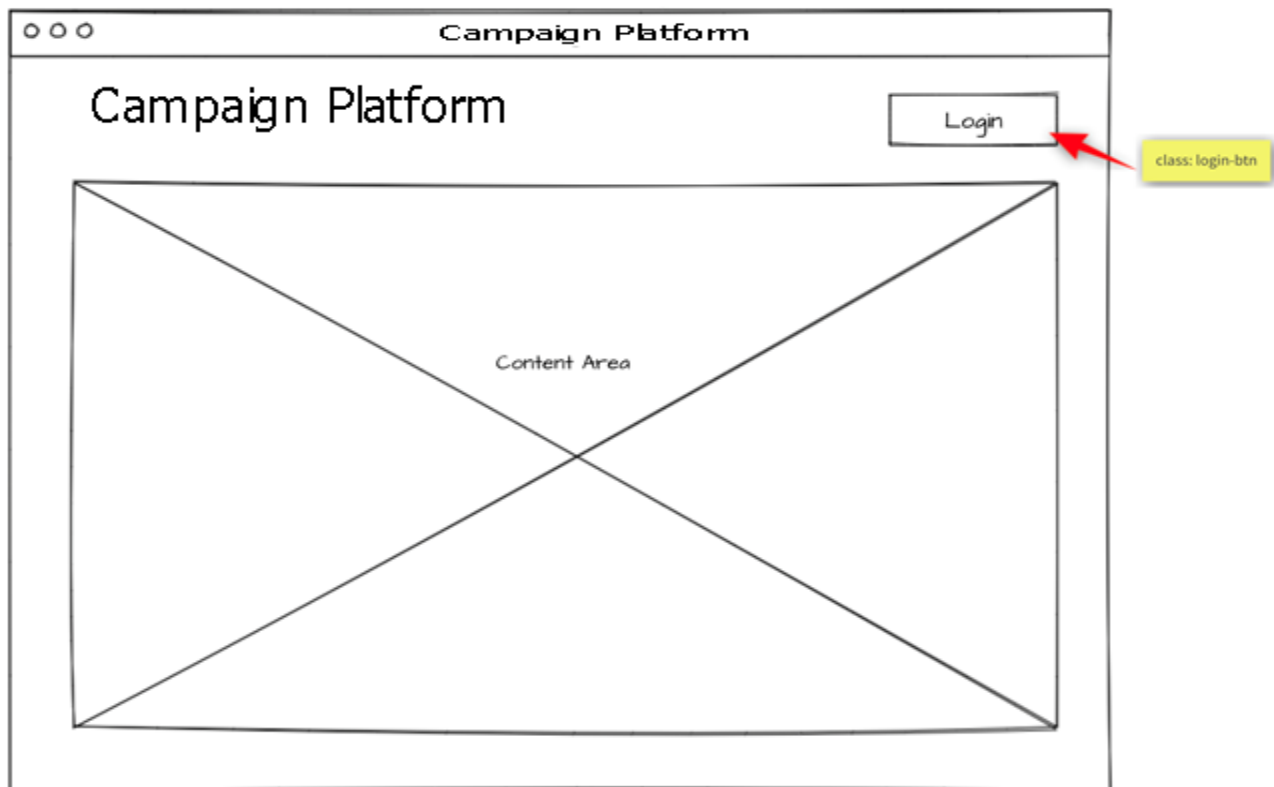
Interaction should show error/feedback messages based on response from the API where appropriate. Also, an error page should be shown when accessing an invalid URL.

Browsing all data is public and no user is required. But as soon as they want to register for a campaign, 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.

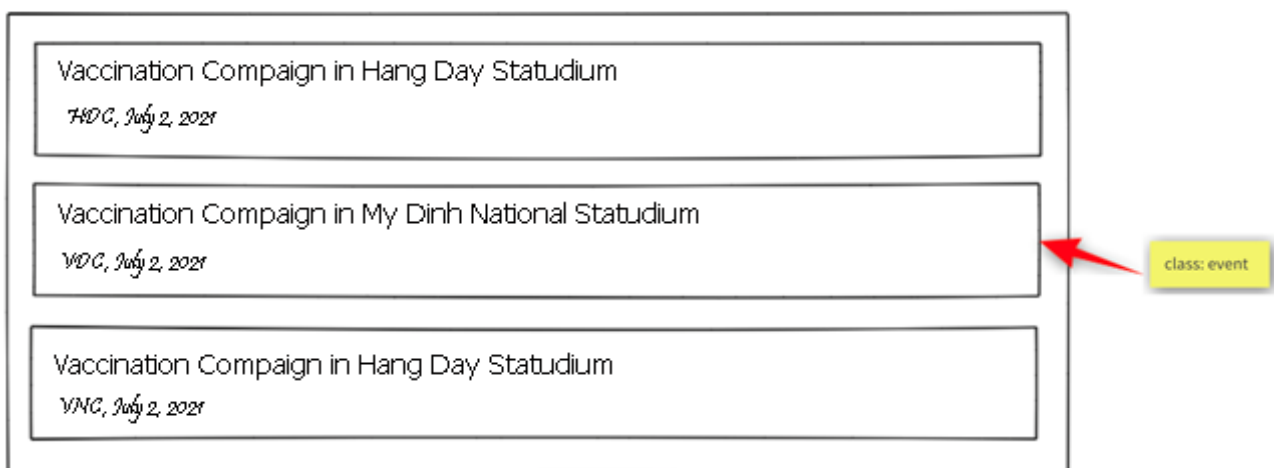
The layout should follow mockups exactly. The position of elements in design should be same as mockups.

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.



Campaign list

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



Specification:

Feature E1 - List upcoming campaigns: As a citizen, I want to see what campaigns I can attend.

Scenario: E1a - List upcoming campaigns

Given I am on the home page

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

And I can click on a campaign

Campaign agenda

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

Vaccination Campaign in My Dinh National Stadium					Register for This Campaign
Area	Place	Session			
South	Line 1	8h-9h30	10h-11h	15h30-16h30	13h30 – 15h
	Line 2	8h-9h30	10h-11h	15h30-16h30	13h30 – 15h
	Line 3	8h-9h30	10h-11h	15h30-16h30	13h30 – 15h
Area	Place	Session			
North	Line 1	8h-9h30	10h-11h	15h30-16h30	13h30 – 15h
	Line 2	8h-9h30	10h-11h	15h30-16h30	13h30 – 15h
	Line 3	8h-9h30	10h-11h	15h30-16h30	13h30 – 15h

Specification:

Feature E2 - Display campaign agenda: As a citizen, I want to see what sessions are within a campaign.

Scenario: E2a - Display areas

Given I am on a campaign detail page

Then I see the areas of the campaign forming horizontal swimlanes

And the areas contain the places as "inside"-swimlanes

Scenario: E2b - Display normal and service sessions

Given I am on a campaign 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: E2c - Display registered sessions

Given I am on a campaign detail page

And I am logged in

And I am already registered for this campaign

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

And I see all sessions of type service 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.

Session Detail - Normal

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?

Vaccinator: Pavel Luksha

Start: 15:00

End: 17:00

Cost: 30.-

Specification:

Feature E3 - Display session details: As a citizen, I want to inform myself about the details of a session.

Scenario: E3a - Display session details

Given I am on an campaign detail page

When I click on a session

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

Vaccine registration

After clicking on "register for this campaign", 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 campaign 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 service 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 campaign and the sessions he has selected and gets redirected back to the campaign detail page.

Vaccination Campaign 2021

☒ Normal Ticket 240.-

☐ Early Bird unavailable 10.-

☐ Hotel Package 300.-
50 tickets available

Select additional services you want to purchase:

☐ Designing skills path
☒ Education ecosyste
☐ Training and innovat

class: ticket

id: event-cost

id: additional-cost

id: total-cost

id: purchase

Campaign tiket: 240.-
Additional services: 30.-

Total: 240.-

Purchase

Specification:

Feature: E4 - Register for campaign: As a citizen, I want to be able to register for a campaign and pay the admission fee.

Scenario: E4a - Enter registration mode

Given I am on a campaign 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 service
And I see a cost view summary
And I see a disabled "Purchase" button

Scenario: E4b - Select ticket success

Given I am in registration mode of a campaign
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: E4c - Select ticket fail

Given I am in registration mode of a campaign
When I select a ticket that is not available
Then the ticket is not selected
And the "Purchase" button is not enabled

Scenario: E4d - Select workshop session

Given I am in registration mode in a campaign

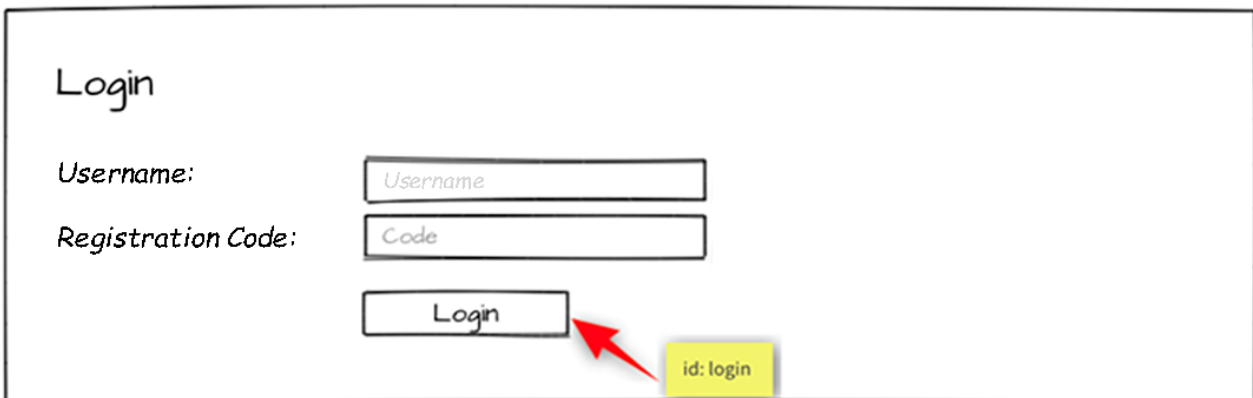
When I tick a service session
 Then the session receives a tick
 And the price of the service is displayed under "Additional services" in
 in the cost view
 And the price of the session is added to the total cost

Scenario: E4e - Purchase

Given I am in registration mode in an campaign
 When I select a ticket and I press the "Purchase" button
 Then the registration is saved
 And I get redirected to the campaign agenda
 And a message appears "Registration successful"

Citizen login

When registering for a campaign, 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 screenshot shows a login form titled "Login". It contains two input fields: "Username:" and "Registration Code:". Below these fields is a "Login" button. A red arrow points from the "Login" button to a yellow box labeled "id: login".

Specification:

Feature: E5 - Log in and log out as a citizen: As a citizen, I would like to log in and log out to the campaign platform so that I can access my registrations and register for new campaigns.

Scenario: E5a - Attendee login ok

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

Scenario: E5b - Attendee login fail

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

Scenario: E5c - 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

- Competitors must use one client-side frameworks/libraries that are provided (if no framework is used, competitor's mark will be deducted by 50% mark accordingly)
- The design of the citizen interface can be based on the template of the admin interface. The visual design of the citizen 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 minimum window width of 1024px.
- For the admin interface it is important to use the selectors (class, id) as provided in the template. For the citizen interface it is important to use the selectors (class, id) as specified in the screen mockup (yellow bubbles).
- Changes made in the data need to be propagated between frontend and backend in both directions.

Submission Instructions to the Competitor

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

- Front-end website (http://<hostname>/XX_Module_E/)
- Folder inside webroot (XX_Module_E/) - put all development files into XX_Module_E_dev.zip and leave only files for production-use in this directory.
- If the front-end root (http://<hostname>/XX_Module_E/) 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 competitor's workstation number.

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.)

VietnamSkills 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: An 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: - JS Framework

Marking Scheme

SECTION	CRITERION	JUDG. MARKS	MEAS. MARKS	TOTAL
E1	List of Campaigns and agenda	0	7.5	7.5
E2	Session and Campaigns	0	7.0	7.0
E3	General	1.0	6.5	7.5
E4	JS Quality	1.0	0	1.0
E5	Front end design	1.0	0	1.0
TOTAL		3.0	20.5	24.0