



TEST PROJECT for Web design and development

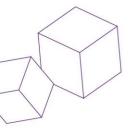
WSA2021_TP17_Client_side_actual_EN

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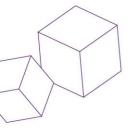




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INTRODUCTION

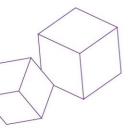
Technologies of this module: JavaScript

Time to complete: 3 hours

The company "Smart control" has contacted you - the company is engaged in the organization of access control. They already have an API that implements access control, but there is no client part. You need to use all the available skills in client development to create a SPA.

The customer wants the client part to be easy to maintain, so the use of frameworks will be a plus.







DESCRIPTION OF PROJECT AND TASKS

Your task is to implement a SPA application that will work with an already developed API. The application should be single-page and work without reloading the pages.

Your SPA should consist of the following screens:

- Registration screen
- Login screen
- Control point control screen
- Employee Management Screen
- Access Groups Management screen
- Access Group Management screen
- Logging screen

The customer provides you with a completely ready-made layout for all application screens. You can change the layout if you deem it necessary, but you should not remove data attributes from elements. The only data attribute whose value can be changed is the data-level attribute on the page with control points. At the same time, you can add and remove other attributes, as well as change the nesting of the layout, but the finished application should not be modified.

There are errors related to validation and usability in the template that is provided to you. You need to fix them. At the same time, validation errors related to the use of the framework will not be taken into account during verification.

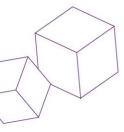
Registration screen

In the signup file.html you are provided with the layout of this screen. The screen contains a registration form, as shown in the screenshot.

- 1. When you click on the "Sign Up" button, a request should be sent to the API to register a new user.
- 2. In case of a successful response from the server, the user should be redirected to the login screen.
- 3. In case of errors, it is necessary to display errors from the server under the corresponding input fields.
- 4. When you click on the "Sign In" link, the screen should change to the login screen.

Please sign up to co	ntinue		
Enter your full name	(1)	Enter your login	①
Invalid full name		Invalid login	
Enter your password		Confirm your password	
	Sig	n Up	







Login screen

In file signin.html you are provided with the layout of this screen. The screen contains a login form, as shown in the screenshot.

- 1. If the user has not yet logged in, this screen should open when going to the site.
- 2. When you click on the "Sign In" button, a request should be sent to the API to verify the entered data.
- 3. In case of a successful response from the server, the user should be remembered and the control point management screen should be shown to him.
- 4. If there are errors in the response, they must be displayed under the corresponding input fields.
- 5. When you click on the link "Create an Account", the screen should change to the signup screen.

Application header

- 1. When clicking on the link in the navigation, the user should see the corresponding screen.
- 2. When you click on the avatar, a submenu with user information should be shown.
- 3. When you click on the avatar again, the submenu in the header should be hidden.
- 4. When you click on the "Sign Out" link, you should log out and the user should be shown the login screen.

Modal Windows

In the application, you will need to implement a number of modal windows. The user should be able to close the modal window by clicking on the button with a cross. This function should work for all modal windows.

Success Messages

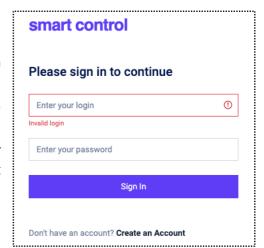
When performing actions related to creating, updating and deleting data, it is necessary to display success messages in the form of pop-up notifications. Notifications should appear in the lower right corner of the screen immediately after performing the action and disappear after 3 seconds.

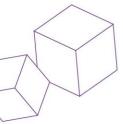
Employee added successfully!

An example of the design of notifications can be found in the file notification-example.html.

The table below shows the text that should be displayed in notifications according to the action.

Action	Notification text
Adding a checkpoint	Control point added successfully!
Changing the control point	Control point updated successfully!
Deleting a checkpoint	Control point deleted successfully!







Adding an employee	Employee added successfully!
Adding an access group	The access group has been successfully created!
Deleting an access group	Access group deleted successfully!

Animation

The customer wants the web application to have as much animation as possible. Use your knowledge and skills to add animation to the application.

Control point management screen

In the file index.html you are provided with the layout of this screen. When you click on the "Control point management" link in the header, the user should appear on this screen.

If the user has already logged in, this screen should open when the page is refreshed.

This screen should display all control points received from the API.

If the user does not have any control points yet, then initially only the button for adding a new control point should be displayed (as in the figure on the right).



When you click on the add button, the root level point should be added to the structure as shown in the picture on the right. This point should have a field for entering the name, a cancel button and an application button.



When you click on the cancel button, this point should be deleted, and when you click on the apply button, a request to the API for creating a point should occur. In case of successful creation, the point should take the following form.

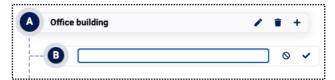


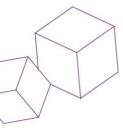
The created point should have 3 functional buttons: edit, delete, add a nested point.

When you click on the button with the edit icon, the control point should again take the form as when it was created to change the entered information. After changing the name, you need to click on the cancel icon to not save the data, or on the confirmation icon to save the new name. The changed name must be saved in the API.

When the delete button is clicked, an API request should be made to delete the corresponding point, and if the response is successful, the point and all its child points should be removed from the page.

When you click on the button to add a nested point, a new nested point should be displayed on the screen as in the picture on the right.





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There may be several root points and as many nested ones as you want. The picture on the right shows one of the possible structures.

Each nesting level should have its own letter of the English alphabet in uppercase: ABCDEFGHIJKLMNOPQRSTUVWXYZ. This is already taken into account in the layout using the data-level="X" attribute, where you need to specify the desired letter instead of X. This data attribute can and should be changed.

After the last root point, a button should always be displayed to add another root point.

You do not need to make up any of the above yourself. Carefully study the layout provided to you and implement the required functionality.



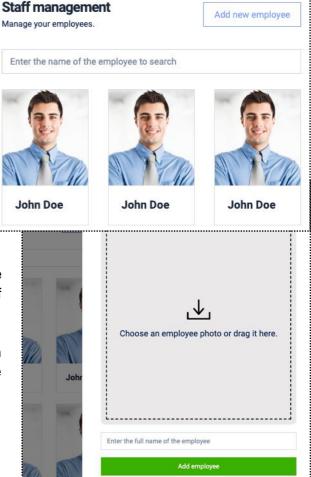
Employee Management Screen

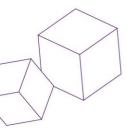
In the file staff.html you are provided with the layout of this screen. When you click on the "Staff management" link in the header, the user should appear on this screen. You need to display employees on the screen, based on data from the API.

Also on this screen there should be a search by the full name of the employee. Cards that do not meet the condition must be hidden. If the input field is empty, then all the cards should be displayed. The search must be case-insensitive and implemented on the client side.

When clicking on the "Add new employee" button, the user should see a modal window on the right side of the screen, as in the picture on the right.

The user should be able to select a file with an employee's photo by clicking on the gray area in the modal window or dragging the file there.







The selected or dragged photo file should be displayed instead of the gray area, as in the picture on the right.

To do this, display the img element with the data-staff-form-preview attribute.

When you click on the "Add employee" button, a request should be sent to the API to create a new employee, and if the response is successful, the added employee should be displayed in the general list, and the modal window should be closed.



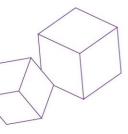
Access Groups Management Screen

In the file access.html you are provided with the layout of this screen. When you click on the "Access groups" link in the header, the user should appear on this screen.



- 1. The table should display all access groups received from the API.
- 2. It should be possible to select all or individual groups.
- 3. When you click on the checkbox in the table header, all the rows of the table should be highlighted.
- 4. The "Remove selected Groups" button should be displayed only if at least one row is selected.
- 5. When you click on the "Remove selected Groups" button, a modal window should be displayed asking you to confirm the deletion of the selected groups. The selected groups should be listed as a list.
- When you click the "Delete permanently" button in the modal window, the selected groups should be deleted from the server using the API, the modal window should be closed and the deleted groups should not be in the table.







When clicking on the "Create new group" button, the user should see a modal window on the right side of the screen, as in the picture on the right.

When you click on the "Create access group" button, a request should be sent to the API to create a new access



group, and if the response is successful, the added group should be displayed in the group table, and the modal window should be closed.

Access Group Management Screen

In the file access-manage.html you are provided with the layout of this screen. The transition to this screen should be carried out by clicking on the "Manage" button in the access group.

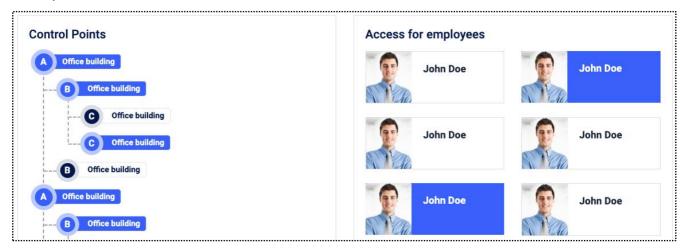
The name of the screen should include the name of the selected access group, as in the picture on the right. Guests is the name of the group

Access control for the Guests group

Control the access of selected employees to selected control points.

Also, on this screen, you need to display the existing structure of control points and a list of all employees.

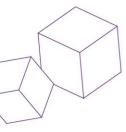
Checkpoints and employees that are included in the access group should be highlighted, as in the picture below.



When you click on the control point, an API request should be made to add the selected point to the current group. If the response is successful, the dot should stand out.

When you click on the selected point again, which is included in the access group, an API request should be made to remove the selected point from the access group. If the response is successful, the point should no longer be highlighted.

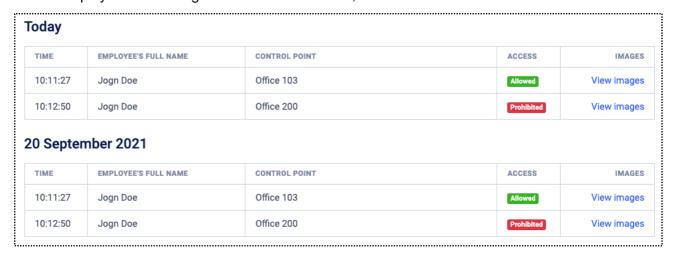
Actions when clicking or clicking on employees again are similar to the above.





Logging screen

In the file logging.html you are provided with the layout of this screen. When you click on the "Logging and analytics" link in the header, the user should appear on this screen. The screen should display all access logs received from the API, as in the screenshot below.



Logs should be grouped by date and sorted from new to old. At the same time, within the grouped date, the logs should be sorted from old to new.

Logs for today should be in the Today group, and all the others in the format "DD Month YYYY"

Each line with the log should display

- Time in the HH format:MM:SS
- Full name of the employee
- · Name of the control point
- Access if access was allowed (true), the green label "Allowed" should be displayed, otherwise the red one "Prohibited".
- Link to view images this link should not lead anywhere and open anything.

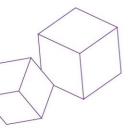
The filtering settings are located on the right side of the page. You need to implement the following filtering on the client side:

- Case insensitive filtering by employee name
- Filtering by the name of the control point without taking into account the case.
- Filtering by access All/Allowed/Prohibited
- Filtering by date

All fields should simultaneously affect filtering. If the field is not filled in, then filtering by this field is not taken into account. Filters should be applied immediately after changing the field or entering a new character.

Employee's name	
Control point	
Access	
All 💙	
Date	
dd/mm/yyyy	







INSTRUCTIONS TO THE COMPETITOR

The developed application must be available at http://xxxxxx-m3.wsr.ru/, where xxxxxx is the username of the participant.

The work will be checked in Google Chrome.

Only works uploaded to the server are checked.

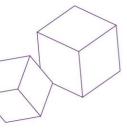
If you are using the CLI version of the framework, then place your source code files (not compressed) in the source folder on the server for the possibility of evaluating your code.

Do not upload node_modules to the server!

EVALUATION SYSTEM

section	Criterion	Sum
Α	Organization of work and management	2,00
В	Communication and interpersonal skills	2,00
С	Graphic Design	4,00
D	Layout	7,00
Е	Client-side programming	17,00
F	Server-side programming	0,00
G	CMS	0,00
Total		32,00







API Documentation

The alias {host} denotes the address http://megpfjd-m3.wsr.ru

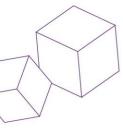
Request for registration

```
URL: {host}/api/register
                           Headers
                                                             Body: {
Method: POST
                           - Content-Type:
                                                              "full_name": "Ivan Ivanov",
                           application/json
                                                              "login": "ivan2021",
                                                              "password": "my-pass"
         --- Successful response ---
                                                               Validation error response ---
Status: 201
                                             Status: 422
Content-Type: application/json
                                             Content-Type: application/json
Body: {
                                             Body: {
  "data": {
                                               "error": {
   "id": 1,
                                                "code": 422,
                                                "message": "Validation error",
   "full name": "Ivan Ivanov"
                                                "errors": { <key>: <error message> }
 }
}
                                               }
```

Request for authentication

```
URL: {host}/api/login
                              Headers
                                                                 Body: {
Method: POST
                                                                   "login": "ivan2021",
                              - Content-Type:
                              application/json
                                                                   "password": "my-pass"
                                 --- Validation error
                                                                 ----- Unauthorized response ---
----- Successful response -
                                response --
                                Status: 422
Status: 200
                                                                 Status: 401
                                                                 Content-Type: application/json
Content-Type:
                                Content-Type:
application/json
                                 application/json
                                                                 Body: {
                                                                   "error": {
Body: {
                                Body: {
                                                                     "code": 401,
  "data": {
                                  "error": {
   "token": <token>,
                                                                     "message": "Unauthorized",
                                   "code": 422,
                                                                    "errors": {
    "login": "invalid credentials"
   "full_name": "Ivan Ivanov"
                                   "message": "Validation
                                error",
}
                                   "errors": {
                                                                    }
                                     <key>: <message>
                                                                  }
                                                                 }
                                 }
```







Request to get all access points

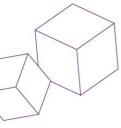
Request	Response
URL: {host}/api/points	Status: 200
Method: GET	Content-Type: application/json
	Body: {
Headers:	"data": {
- Authorization: Bearer <token></token>	<pre>"items": [{ "id": 1, "name": "Department A", "points": [{ "id": 2, "name": "Office A1", "points": [] }] } }</pre>

Request to create a new access point

Request	Response
URL: {host}/api/points Method: POST	Status: 201 Content-Type: application/json
Headers - Content-Type: application/json - Authorization: Bearer <token> Body: { "name": "Office A2", "parent": 1 }</token>	Body: { "data": { "id": 2, "name": "Office A2", "parent": 1, } }

Request to edit an access point

Request	Response
URL: {host}/api/points/ <id> Method: PATCH</id>	Status: 200 Content-Type: application/json
Headers - Content-Type: application/json - Authorization: Bearer <token></token>	Body: { "data": { "name": "Office A2-1"
Body: { "name": "Office A2-1" }	}





Request to delete an access point

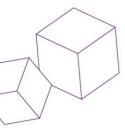
Request	Response
URL: {host}/api/points/ <id> Method: DELETE</id>	Status: 200
Headers - Authorization: Bearer <token></token>	

Request to get all groups

Request	Response
URL: {host}/api/groups Method: GET Headers - Authorization: Bearer <token></token>	Status: 200 Content-Type: application/json Body: { "data": { "items": [

Request to create a new access group

Request	Response
URL: {host}/api/groups Method: POST	Successful response
Headers	Content-Type: application/json Body: {
Content-Type: application/jsonAuthorization: Bearer <token></token>	"data": { "id": 1, "name": "Office B"
Body: { "name": "Office B"	}
}	Validation error response
	Status: 422 Content-Type: application/json
	Body: { "error": {
	"code": 422,
	"message": "Validation error", "errors": {
	"name": <error message=""> }</error>
	}





Request to delete an access group

Request	Response
URL: {host}/api/groups/ <id> Method: DELETE</id>	Status: 200
Headers - Authorization: Bearer <token></token>	

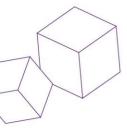
Request to get an access group

Request	Response
URL: {host}/api/groups/ <id> Method: GET</id>	Status: 200 Content-Type: application/json
Headers - Authorization: Bearer <token></token>	Body: { "data": { "id": 1, "name": "Office A", "staff": [1, 5, 6], "points": [4, 5, 8] } }

Request to add access points to a group

Request	Response
URL: {host}/api/groups/ <id>/points Method: POST</id>	Status: 201 Validation error response
Headers - Authorization: Bearer <token> Body { "points": [1, 4] }</token>	Status: 422 Content-Type: application/json Body: { "error": { "code": 422, "message": "Validation error", "errors": { "points": <error by="" commas="" messages="" separated=""> } } }</error>





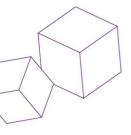


Request to remove access points from a group

Request	Response
URL: {host}/api/groups/ <id>/points Method: DELETE</id>	Status: 201
<pre>Headers - Authorization: Bearer <token> Body { "points": [1, 4] }</token></pre>	

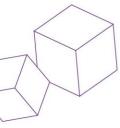
Creating an employee

Request	Response
URL: {host}/api/staff Method: POST Headers - Content-Type: multipart/form-data - Authorization: Bearer <token> Body: - full_name: "Ivan Ivanov" - photo: <file> full_name – required photo – required, jpg</file></token>	Status: 201 Content-Type: application/json Body: { "data": { "id": 1, "full_name": "Ivan Ivanov", "code": <generated code=""> "photo": <photo link=""> } }</photo></generated>











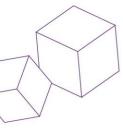
Getting a list of employees

Request	Response
URL: {host}/api/staff Method: GET Headers - Authorization: Bearer <token></token>	

Request to add employees to a group

Request	Response
URL: {host}/api/groups/ <id>/staff Method: POST</id>	Status: 201 Validation error response
Headers - Authorization: Bearer <token> Body { "staff": [6] }</token>	Status: 422 Content-Type: application/json Body: { "error": { "code": 422, "message": "Validation error", "errors": { "staff": <error by="" commas="" messages="" separated=""> } }</error>







Request to remove employees from the group

Request	Response
URL: {host}/api/groups/ <id>/staff Method: DELETE Headers - Authorization: Bearer <token> Body { "staff": [6] }</token></id>	Status: 201

Request for getting logs

Request	Response
URL: {host}/api/logs Method: GET	Status: 200 Content-Type: application/json
Headers - Authorization: Bearer <token></token>	<pre>Body: { "data": { "items": [</pre>

