

Test task for Junior/Trainee Front End (ServiceNow) Developer position

To pass this test task you will need your own ServiceNow instance.

0. Get a Personal Developer Instance (PDI):

0.1 In a web browser, navigate to <https://developer.servicenow.com/>.

Create an account if you do not already have one.

0.2 Log in to your account.

0.3 At the left side click **Request an instance** button.

0.4 Choose Orlando release and click **Request** button bottom right.

0.5 When your new instance is displayed, make note of the Username and Password provided.

0.6 Click the instance URL link to open your Personal Developer Instance.

0.7 Login to your Personal Developer Instance with the Username and Password from Step.

0.8 From the Change Password prompt, change your admin password.

Congratulations! You now have your very own ServiceNow Personal Developer Instance!

After you have your instance, you can proceed to the test task.

All tasks are divided into groups from the easiest to the most difficult.

We will select the candidates who perform the most tasks and invite them for a personal interview.

To complete all tasks, you can use any resources, some of them are indicated at the end.

1. Setup your environment:

<https://developer.servicenow.com/dev.do#!/reference/now-experience/orlando/cli/getting-started>

1.1 Now CLI login (using your Personal Developer Instance credentials from previous steps).

1.2 Now CLI create project (project name: **@test/hello-world**).

1.3 Perform all other actions according to the documentation.

2. Create your first simple component for ServiceNow Now Experience Framework:

2.1 Create simple component like "Hello World!".

2.2 Develop it on your localhost (verify everything looks good).

2.3 Configure your component for UI Builder.

2.4 Deploy your project to your PDI.

3. Create component using Now Experience Components library:

<https://developer.servicenow.com/dev.do#!/reference/now-experience/orlando/components>

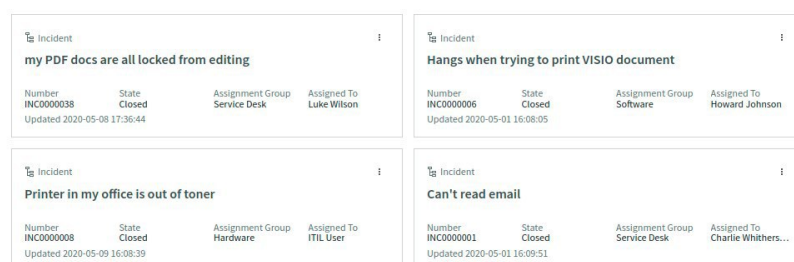
3.1 Create new project using NOW CLI (name: **@test/card-list**).

3.2 Install component from **npm**: Template Card Assist (**@servicenow/now-template-card**).

<https://developer.servicenow.com/dev.do#!/reference/now-experience/orlando/now-components/now-template-card-assist/api>

3.3 Generate minimum 4 cards with mock data.

3.4 It should look like the screenshot.



3.5 Repeat steps 2.2-2.4 for this component.

4. Create a new component and use API to get data for it:

4.1 Create new project using NOW CLI (name: **@test/incident-list**).

4.2 Install component from **npm**: Template Card Assist (**@servicenow/now-template-card**).

<https://developer.servicenow.com/dev.do#!/reference/now-experience/orlando/now-components/now-template-card-assist/api>

4.3 Generate list of incidents from your PDI using http effect and Table Incident API endpoint **GET api/now/table/incident?sysparm_display_value=true**.

4.3.1 Create http effect.

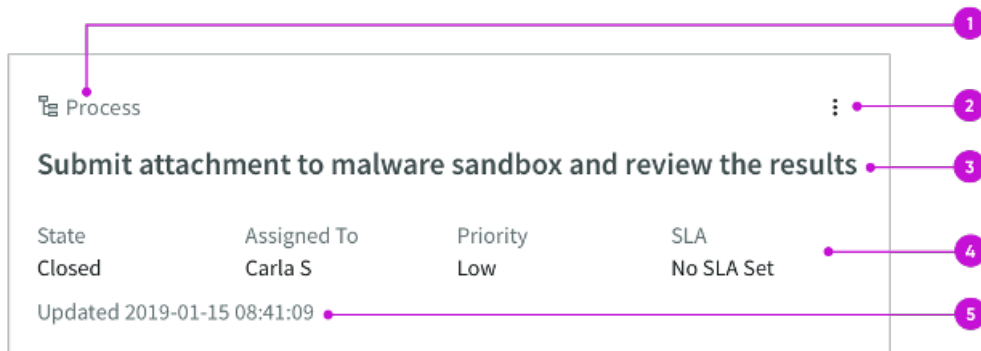
<https://developer.servicenow.com/dev.do#!/reference/now-experience/orlando/ui-framework/api-reference/effect-http>

<https://developer.servicenow.com/blog.do?p=/post/nowexp-http-effect/>

4.3.2 Create Action handler for http effect.

<https://developer.servicenow.com/dev.do#!/reference/now-experience/orlando/ui-framework/now-experience-ui-framework-101/action-handlers>

4.3.3 Process the data and only use these fields.



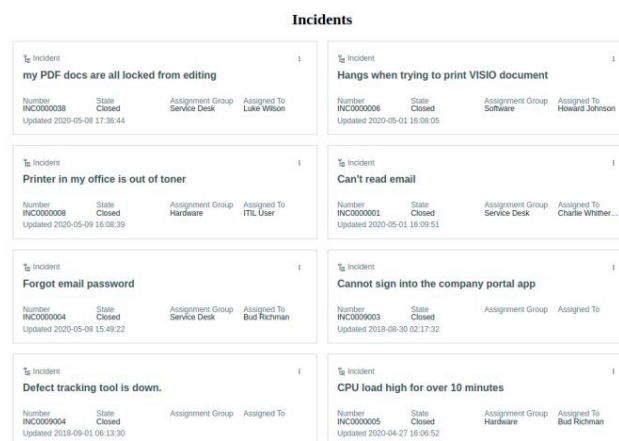
1) Incident (static);

3) short_description;

4) number, state, assignment_group, assigned_to;

5) updated_on;

If done correctly, you should have approximately 64 cards like this:

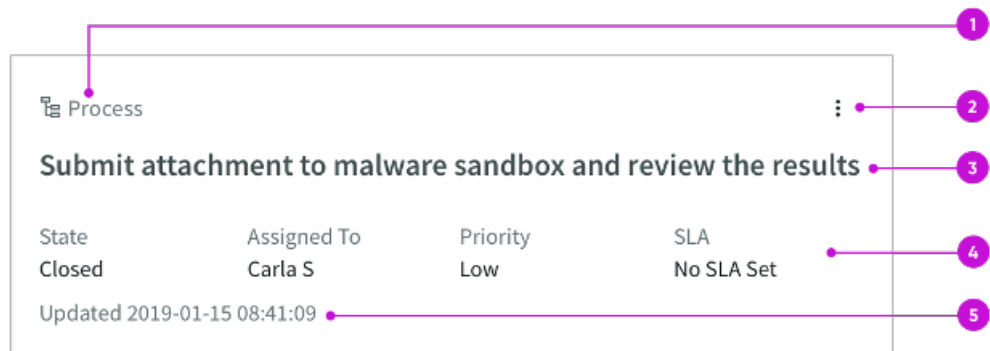


4.4 Repeat steps 2.2-2.4 for this component.

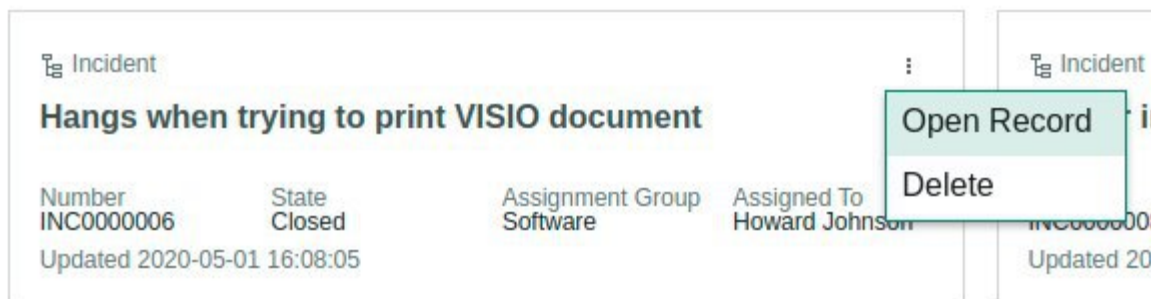
5. Create a new component with actions:

5.1 Repeat steps 4.1-4.3 for this component.

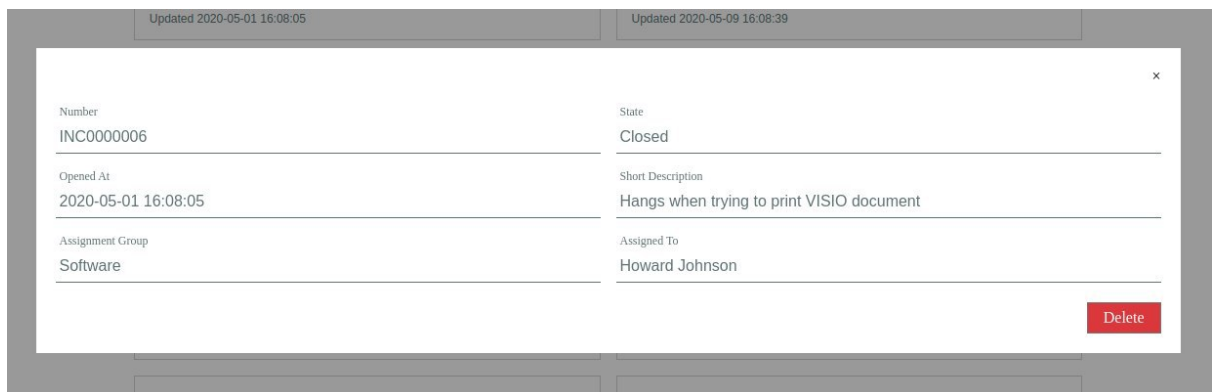
5.2 Add 2 actions: **Open Record** and **Delete**.



2) Here should be your actions;



5.3 Action **Open Record** should open modal window with information about chosen record.



On this modal form, you can display the fields at you like

5.3.1 After click action is triggering event: **NOW_DROPDOWN_PANEL#ITEM_CLICKED** (Should use in action handler).

5.4 Action "Delete" should delete a record from Data Base in the ServiceNow Instance.

5.4.1 API endpoint **DELETE api/now/table/incident/:sys_id**.

Where: **sys_id** is a **sys_id** field from record.

5.4.2 Use http effect for this action.

5.4.3 Repeat steps 2.2-2.4 for this component.

5.4.4 Deleted Record should remove from incidents list.

6. Add filtering option to the incidents list component:

6.1 Can be done after successfully completed all tasks in step 4, or step 5.

6.2 Add ability to filter list of incidents by incident fields.

While solving this task, you can show your initiative and make a filter as you imagine it.

The criterion that the filter must meet:

- 1) the filter should be intuitive for the user;*
- 2) the filter must be able to filter by different fields;*
- 3) filter must be applied to the list, and filter out records from this list;*

7. Upload all source code to git repository:

7.1 Create a separate git repository for everything you develop.

7.2 Send us a link to it.

7.3 It must be public so we can see the source code.

7.4 Send us the credentials of the administrator account on your PDI.

All information that you need to do all those tasks you can find on those resources:

1. ServiceNow Developer Blog Articles about Now Framework
<https://developer.servicenow.com/blog.do?p=/tags/now-experience/>
2. ServiceNow Documentation
<https://docs.servicenow.com/>
3. Now Experience Components library
<https://developer.servicenow.com/dev.do#!/reference/now-experience/orlando/components>
4. Now Experience UI Framework
<https://developer.servicenow.com/dev.do#!/reference/now-experience/orlando/cli/getting-started>
5. ServiceNow Community
<https://community.servicenow.com/>