

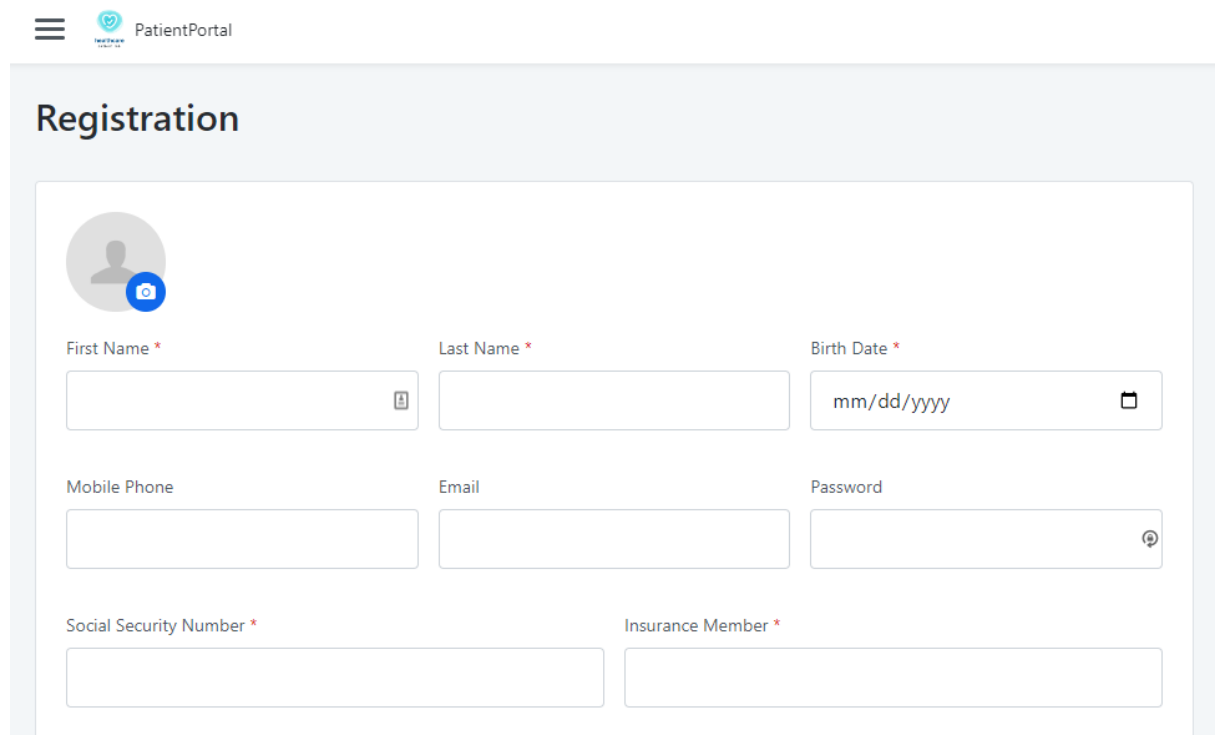
# Consent Information

## Table of Contents

<b>Scenario.....</b>	<b>2</b>
<b>How-To.....</b>	<b>5</b>
Adding the Consent Information to the Form	5
Checkboxes	9
Terms and Conditions	9
Personal Data Usage	12
Signature	15
Forge Component	16
Stroke Finished Logic	20
Testing your app	23
<b>Wrapping up.....</b>	<b>25</b>
References	25

## Scenario

At this point of the course, your application should have the Registration Screen with a Form and several input fields in it, such as the patient's name, birth date, password and social security number.




The screenshot shows a web application interface for a "PatientPortal". At the top left, there is a hamburger menu icon and a logo with the text "PatientPortal". Below this, the title "Registration" is displayed in a large, bold font. The registration form itself is contained within a light gray border. It features a circular profile picture placeholder with a camera icon. Below the profile picture, there are several input fields: "First Name \*" and "Last Name \*" are text inputs; "Birth Date \*" is a date picker showing "mm/dd/yyyy"; "Mobile Phone", "Email", and "Password" are text inputs, with the password field having an eye icon for toggling visibility; "Social Security Number \*" and "Insurance Member \*" are text inputs. Red asterisks indicate required fields.

In this tutorial, you will add some new sections to the Form with some important features for the registration process.

The first one is the information regarding the terms and conditions and consent to use the patient's personal information, that the user needs to accept when registering.

## Registration



First Name \*

Last Name \*

Birth Date \*

Mobile Phone

Email

Password

Social Security Number \*

Insurance Member \*

### Consent to treat

I hereby voluntarily consent to all healthcare services ordered/provided by MyHealthCompany providers at the MyHealthCompany service locations. The health care service may include, without limitation, routine physical and mental assessment; diagnostic and monitoring tests and procedures; examinations and medical and/or dental treatment; routine laboratory procedures and tests; x-rays and other imaging studies; administration of medications; and procedures and treatments prescribed by the center's healthcare providers. The health care services also may include counseling necessary to receive appropriate services including family planning (as defined by laws and regulations).

I consent to examinations, treatments, procedures, and blood tests ordered by the healthcare provider, which may include blood tests for diseases such as hepatitis and HIV AIDS. I understand that I will be asked to sign a separate informed consent for each vaccine to be administered and that I will receive a "Vaccine Information Statement" (VIS) prior to the administration of each vaccine. I understand that there is a separate consent form that I may be asked to sign for testing for infectious conditions.

I understand that if this consent is being signed on behalf of a minor, I may be required to sign a separate paternal consent form in order for the minor to receive family planning services. I understand that if this consent is being signed on behalf of a minor, this consent is valid until the minor turns 18, at which time the minor must consent for services on his/her own behalf.

I understand that there are certain hazards and risks connected with all forms of treatment, and my consent is given knowing this.

I understand that this consent is valid and remains in effect until I withdraw my consent, which may be done in writing at any time or until the center changes its services and ask me to complete a new consent form.

### Consent to bill insurance and collect payment

☐ I agree to the [Terms & Conditions \(T&C\)](#)
☐ I agree to the use of my personal data for marketing and survey purposes
 
[Clear](#)

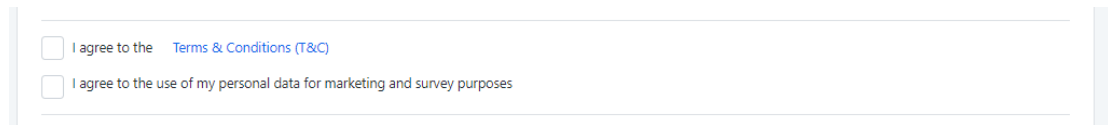
You will leverage two types of elements to create that:

- **Accordion:** Allows users to expand and hide content when clicked.

Consent to treat

Consent to bill insurance and collect payment

- Checkbox: Users must click on the checkboxes to confirm they agree with the terms.



A screenshot of a registration form. It contains two checkboxes, both of which are unchecked. The first checkbox is followed by the text "I agree to the" and a blue link "Terms & Conditions (T&C)". The second checkbox is followed by the text "I agree to the use of my personal data for marketing and survey purposes".

This section also contains a Signature area where users should write their signature before proceeding with the registration. You won't need to build this from scratch because OutSystems allows reusing components and even provides a repository for that: the Forge.



A screenshot of a signature field. It features a "Clear" link in blue text at the top left. The main area contains a handwritten signature in black ink that reads "PWesley".

At the end of this tutorial, you will have all the UI for the Screen done, but not the logic. That will be handled on the next one.

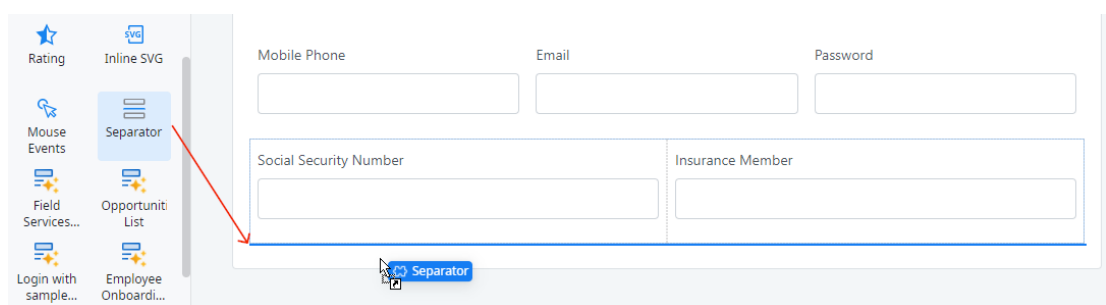
# How-To

Let's expand the Registration Form step-by-step!

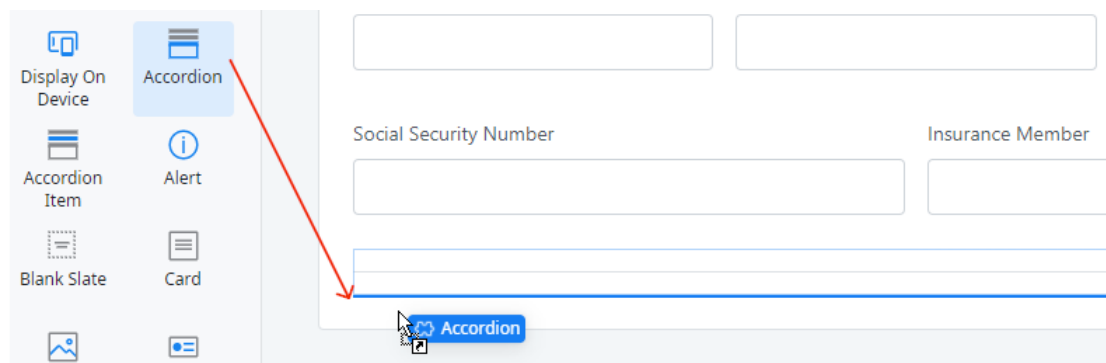
## Adding the Consent Information to the Form

We all know that the texts about consent are kind of long. So, you will use an Accordion to make sure the text can be collapsed when not needed, to avoid overloading the Screen.

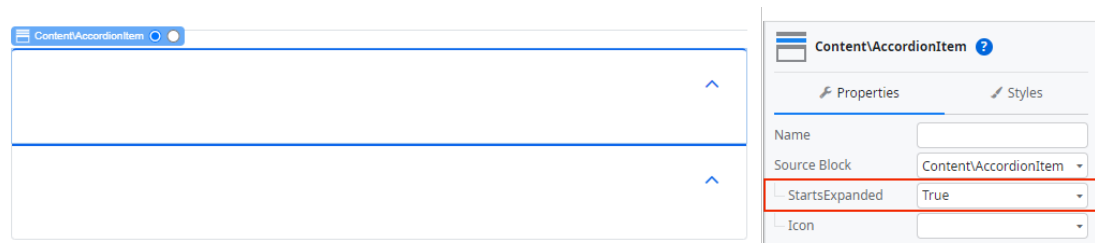
- 1) Drag a **Separator** from the left sidebar after the Columns 2 element created in the previous tutorial.



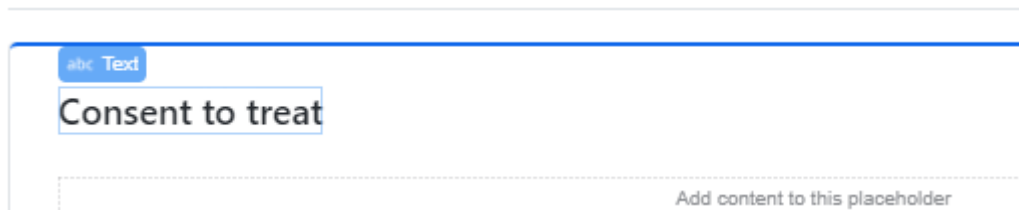
- 2) Drag and drop an **Accordion** after the Separator.



- 3) Click on the first **Accordion Item** inside the Accordion, then go to its properties on the right sidebar. Set the **StartsExpanded** property to **True**.



- 4) Type *Consent to treat* in the Title section of the Accordion Item.



- 5) Copy the text below and paste it to the content of the Accordion Item.

I hereby voluntarily consent to all healthcare services ordered/provided by MyHealthCompany providers at the MyHealthCompany service locations.

The health care service may include, without limitation, routine physical and mental assessment; diagnostic and monitoring tests and procedures; examinations and medical and/or dental treatment; routine laboratory procedures and tests; x-rays and other imaging studies; administration of medications; and procedures and treatments prescribed by the center's healthcare providers. The health care services also may include counseling necessary to receive appropriate services including family planning (as defined by laws and regulations).

I consent to examinations, treatments, procedures, and blood tests ordered by the healthcare provider, which may include blood tests for diseases such as hepatitis and HIV AIDS.

I understand that I will be asked to sign a separate informed consent for each vaccine to be administered and that I will receive a "Vaccine Information Statement"(VIS) prior to the administration of each vaccine. I understand that there is a separate consent form that I may be asked to sign for testing for infectious conditions.

I understand that if this consent is being signed on behalf of a minor, I may be required to sign a separate paternal consent form in order for the minor to receive family planning services. I understand that if this consent is being signed on behalf of a minor, this consent is valid until the minor turns 18, at which time the minor must consent for services on his/her own behalf. I understand that there are certain hazards and risks connected with all forms of treatment, and my consent is given knowing this.

I understand that this consent is valid and remains in effect until I withdraw my consent, which may be done in writing at any time or until the center changes its services and ask me to complete a new consent form.

**Consent to treat** ^

alt: Text

I hereby voluntarily consent to all healthcare services ordered/provided by MyHealthCompany providers at the MyHealthCompany service locations.

The health care service may include, without limitation, routine physical and mental assessment; diagnostic and monitoring tests and procedures; examinations and medical and/or dental treatment; routine laboratory procedures and tests; x-rays and other imaging studies; administration of medications; and procedures and treatments prescribed by the center's healthcare providers. The health care services also may include counseling necessary to receive appropriate services including family planning (as defined by laws and regulations).

I consent to examinations, treatments, procedures, and blood tests ordered by the healthcare provider, which may include blood tests for diseases such as hepatitis and HIV AIDS.

I understand that I will be asked to sign a separate informed consent for each vaccine to be administered and that I will receive a "Vaccine Information Statement"(VIS) prior to the administration of each vaccine. I understand that there is a separate consent form that I may be asked to sign for testing for infectious conditions.

I understand that if this consent is being signed on behalf of a minor, I may be required to sign a separate paternal consent form in order for the minor to receive family planning services. I understand that if this consent is being signed on behalf of a minor, this consent is valid until the minor turns 18, at which time the minor must consent for services on his/her own behalf.

I understand that there are certain hazards and risks connected with all forms of treatment, and my consent is given knowing this.

I understand that this consent is valid and remains in effect until I withdraw my consent, which may be done in writing at any time or until the center changes its services and ask me to complete a new consent form.

- 6) Click on the second Accordion Item and type *Consent to bill insurance and collect payment* in the title.

I understand that this consent is valid and remains in effect until I withdraw my consent, which may be done in writing at any time or until the center changes its services and ask me to complete a new consent form.

alt: Text

**Consent to bill insurance and collect payment** ^

^

- 7) Copy the text below and paste it to the content of the second Accordion Item.

I understand and agree that health, dental or behavioral health insurance coverage is an agreement between the insurance carrier and myself.

I understand that MyHealthCompany will prepare any necessary reports and forms to assist me in making collections from the insurance company and that any amounts authorized will be paid directly to MyHealthCompany. However, I clearly understand and agree that all services provided to me are charged directly to me and that I am personally responsible for payment. I authorized MyHealthCompany to furnish information to insurance carriers concerning my illness and treatments.

I acknowledge my responsibility to pay for that care according to the fees established.

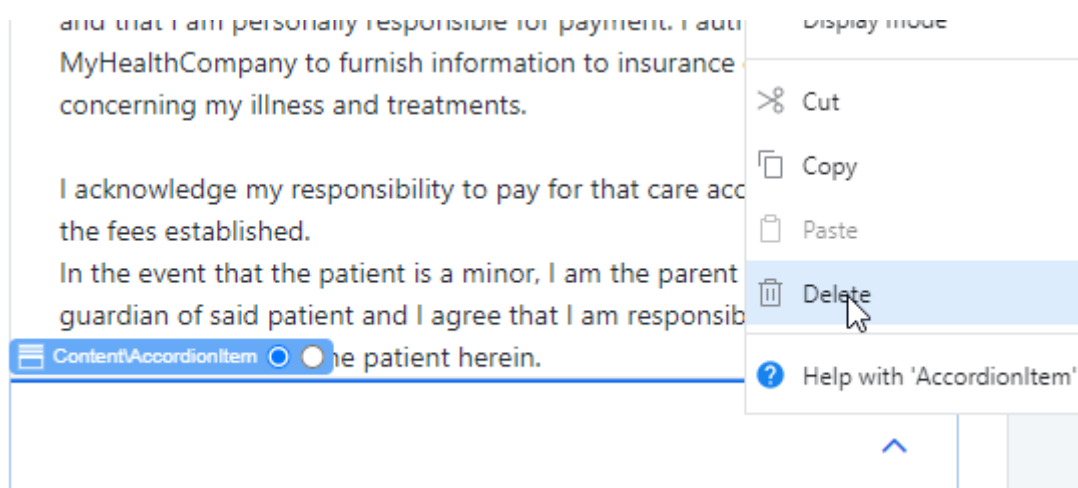
In the event that the patient is a minor, I am the parent and/ or guardian of said patient and I agree that I am responsible for all services provided to the patient herein.

Consent to bill insurance and collect payment

Text

I understand and agree that health, dental or behavioral health insurance coverage is an agreement between the insurance carrier and myself. I understand that MyHealthCompany will prepare any necessary reports and forms to assist me in making collections from the insurance company and that any amounts authorized will be paid directly to MyHealthCompany. However, I clearly understand and agree that all services provided to me are charged directly to me and that I am personally responsible for payment. I authorized MyHealthCompany to furnish information to insurance carriers concerning my illness and treatments. I acknowledge my responsibility to pay for that care according to the fees established. In the event that the patient is a minor, I am the parent and/ or guardian of said patient and I agree that I am responsible for all services provided to the patient herein.

- 8) Right-click on the last Accordion Item and select **Delete** to erase it.



**Note:** By default, the Accordion element contains 3 Accordion Items. You can add or delete Accordion Items as needed.

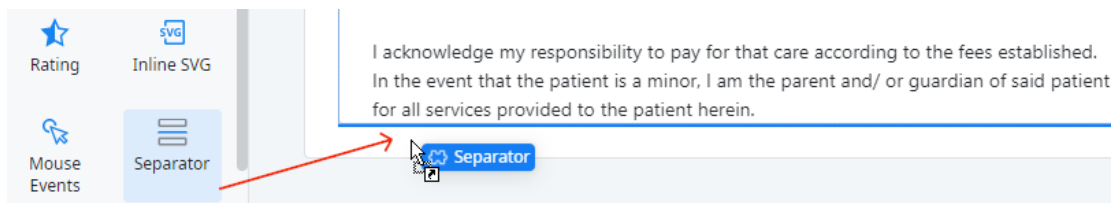


## Checkboxes

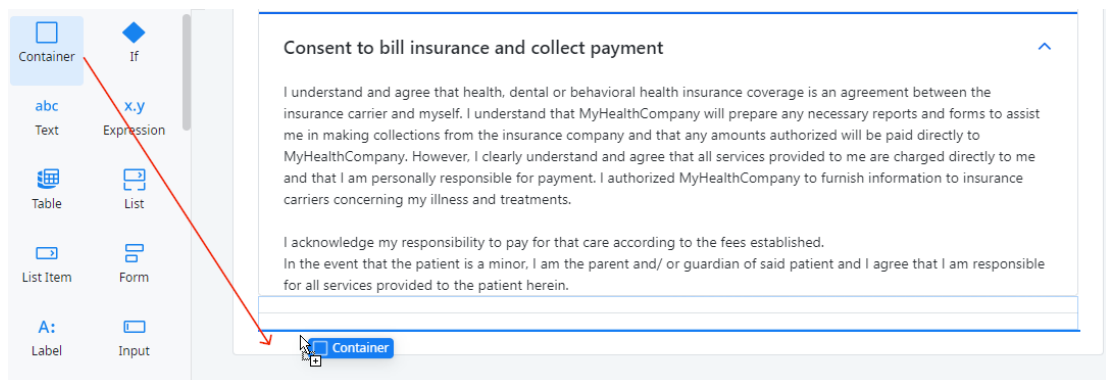
Let's now create the checkboxes so users can confirm they agree with the terms presented in the Accordion.

## Terms and Conditions

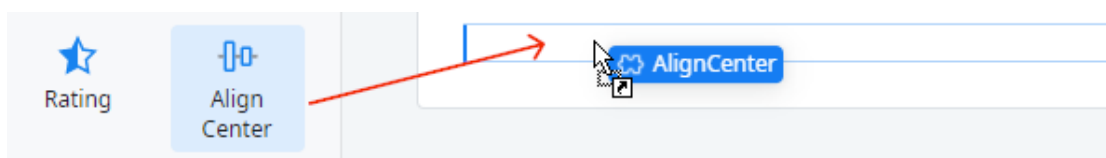
- 1) Drag another **Separator** from the left sidebar and drop it under the last Accordion Item.



- 2) Drag and drop a **Container** under the new Separator.

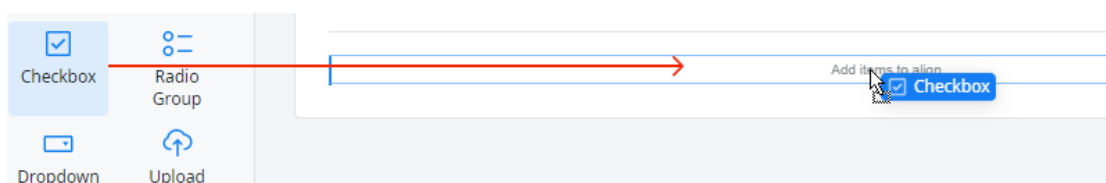


- 3) Search for the **Align Center** element in the left sidebar. Drag and drop it inside the Container.

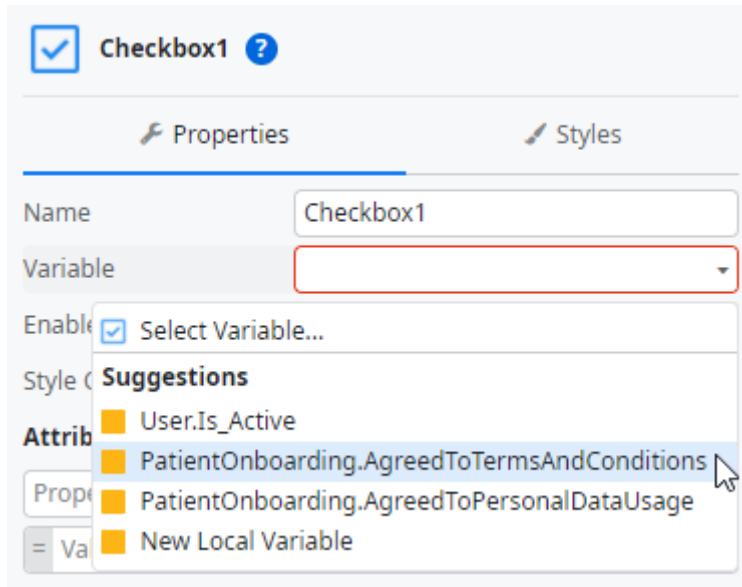


This element allows aligning a piece of content to the center automatically.

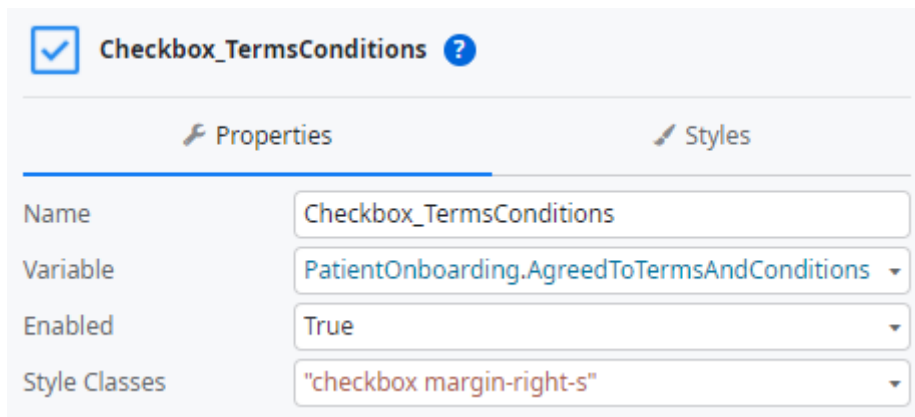
- 4) Drag and drop a **Checkbox** element inside the Align Center.



- 5) Set the **Variable** property to **PatientOnboarding.AgreedToTermsAndConditions** to the user's choice in the Local Variable that has all the patient onboarding information.

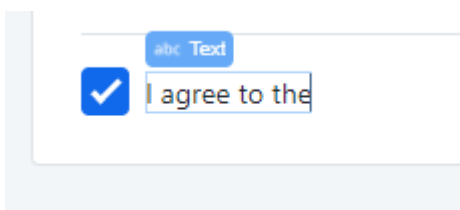


- 6) Set the Checkbox's **Name** to *Checkbox\_TermsConditions* and the **Style Classes** to "checkbox margin-right-s".



This style will create a small spacing between the checkbox and what will be added next to it.

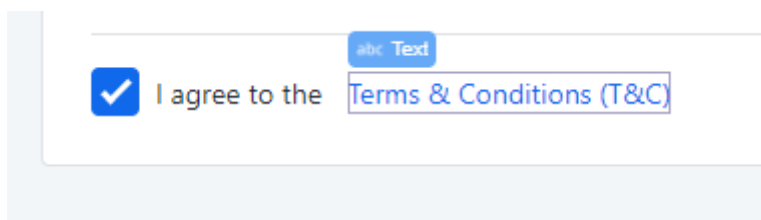
- 7) Click on the empty space on the right side of the Checkbox and type *I agree to the*.



- 8) Drag a **Link** from the left sidebar and drop it next to the text.

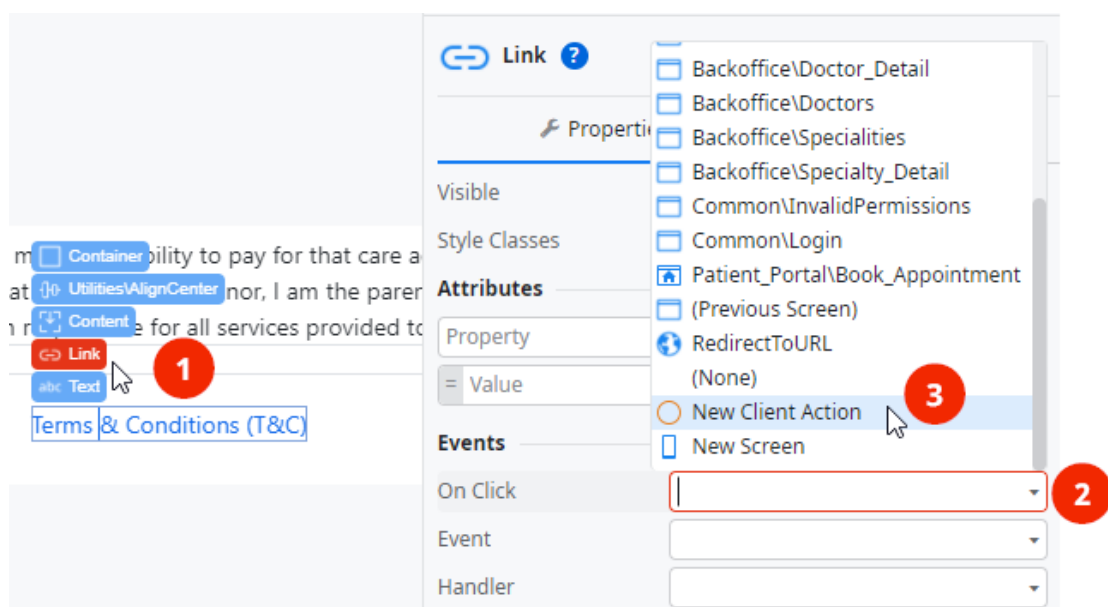


- 9) Click on the Link and type *Terms & Conditions (T&C)*.

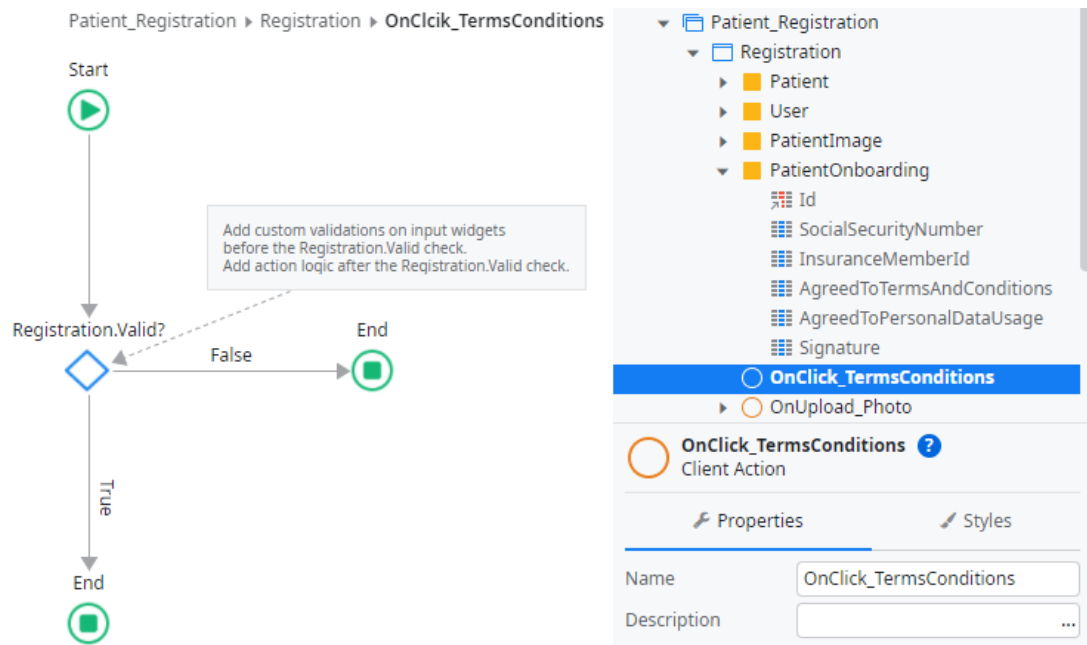


The link will still have an error because you haven't defined what happens when it is clicked yet. So let's do that!

- 10) Select the Link to see its properties, click on the **On Click** dropdown and select **New Client Action**.



11) Name the new Client Action *OnClick\_TermsConditions*.

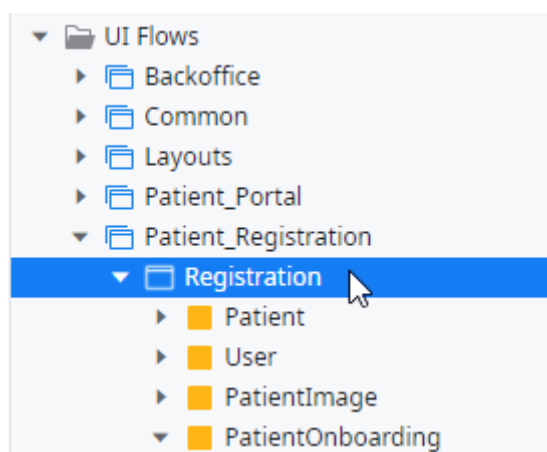


Let's leave this empty. Ideally, you would navigate to a page with all the information about the terms and conditions, but we will skip that functionality in this app. But, feel free to add it later if you want to.

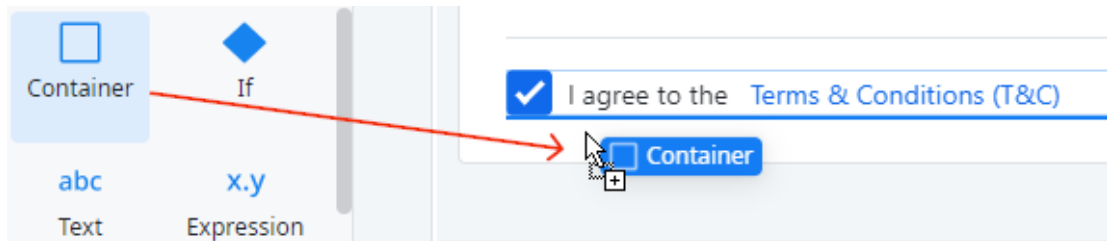
## Personal Data Usage

Now it's time to work on the agreement to use personal data.

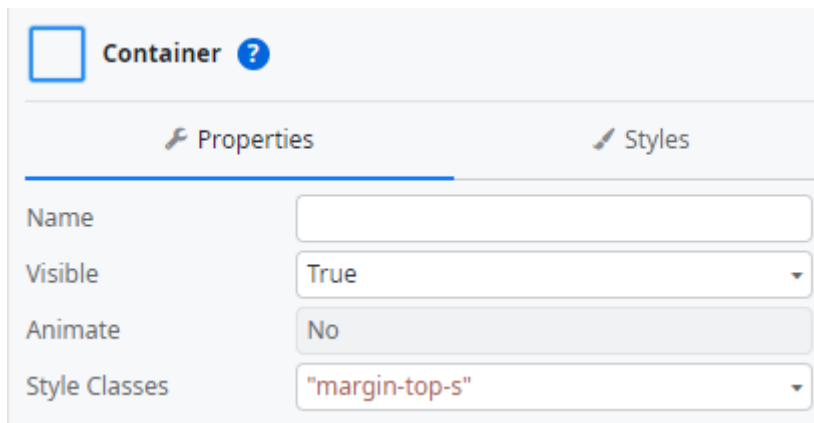
1) Go back to the **Registration** Screen by double-clicking on it in the right sidebar.



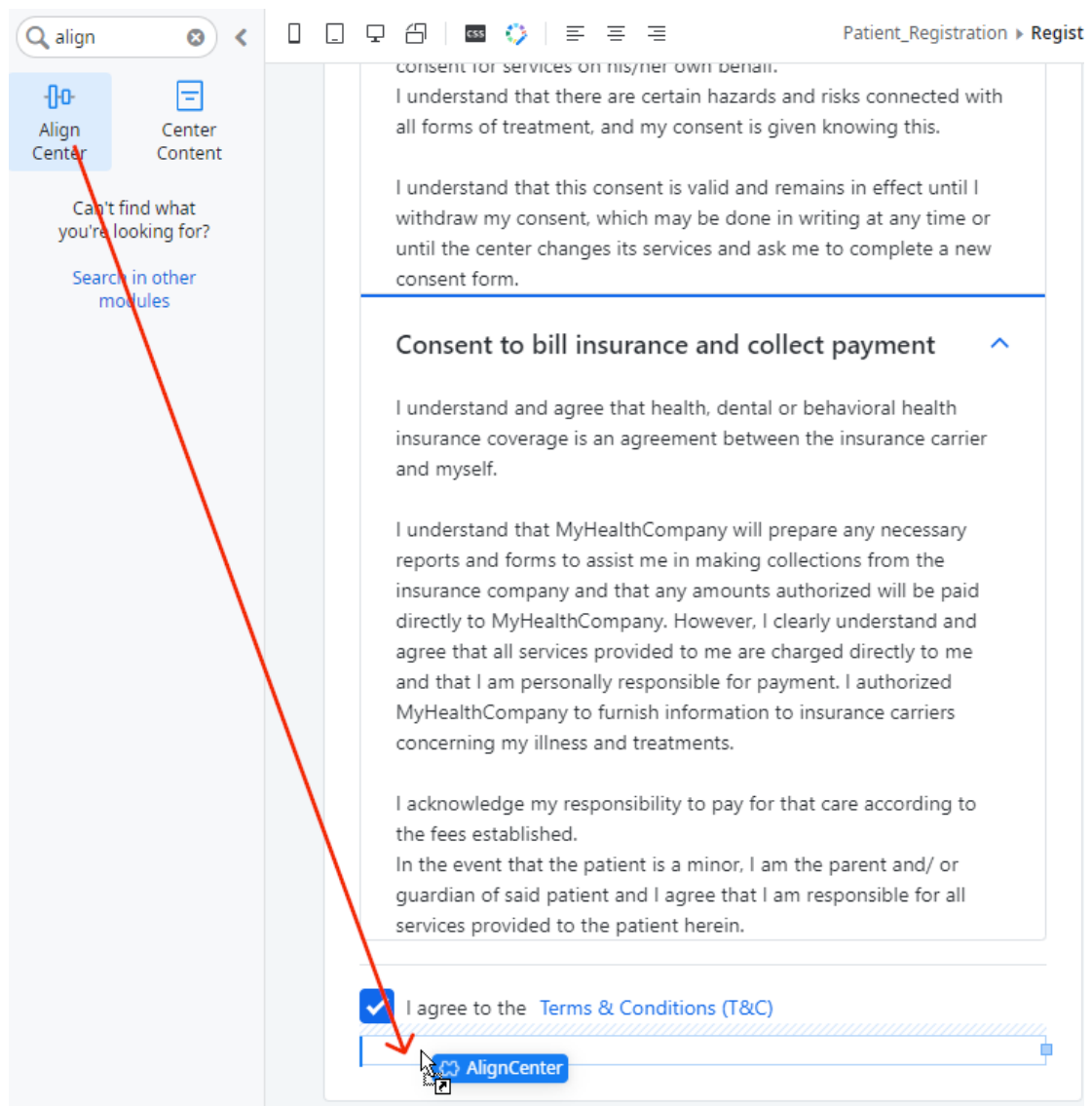
- 2) Drag and drop another **Container** under the previous one.



- 3) Go to the Container's properties and set the **Style Classes** to "margin-top-s".

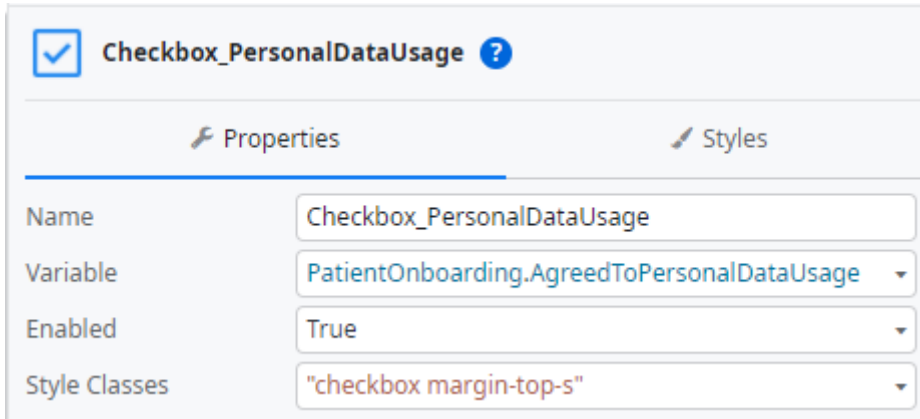


- 4) Drag and drop an **Align Center** inside the Container, just like you did for the terms & conditions.



- 5) Drag and drop a **Checkbox** inside the Align Center.

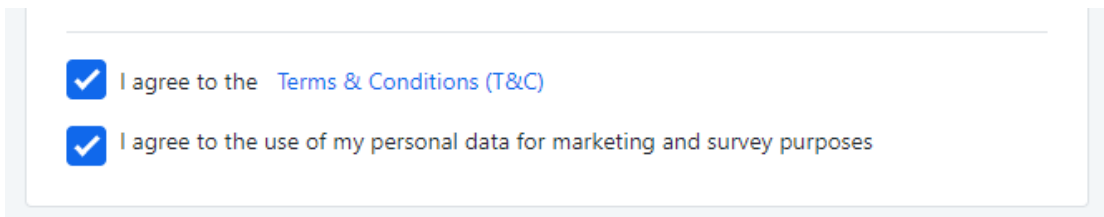
- 6) Rename the Checkbox as *Checkbox\_PersonalDataUsage*, set the **Variable** property to the variable **PatientOnboarding.AgreedToPersonalDataUsage** and the **Style Classes** property to "checkbox margin-right-s".



The screenshot shows the 'Properties' tab of the OutSystems Properties Panel for a component named 'Checkbox\_PersonalDataUsage'. The 'Variable' property is set to 'PatientOnboarding.AgreedToPersonalDataUsage' and the 'Style Classes' property is set to 'checkbox margin-top-s'.

Property	Value
Name	Checkbox_PersonalDataUsage
Variable	PatientOnboarding.AgreedToPersonalDataUsage
Enabled	True
Style Classes	"checkbox margin-top-s"

- 7) Type *I agree to the use of my personal data for marketing and survey purposes.* right after the Checkbox.



The screenshot shows the rendered UI with two checked checkboxes. The first checkbox is followed by the text 'I agree to the' and a link 'Terms & Conditions (T&C)'. The second checkbox is followed by the text 'I agree to the use of my personal data for marketing and survey purposes'.

And you're done with the agreement checkboxes. Let's finish the UI with a signature.

## Signature

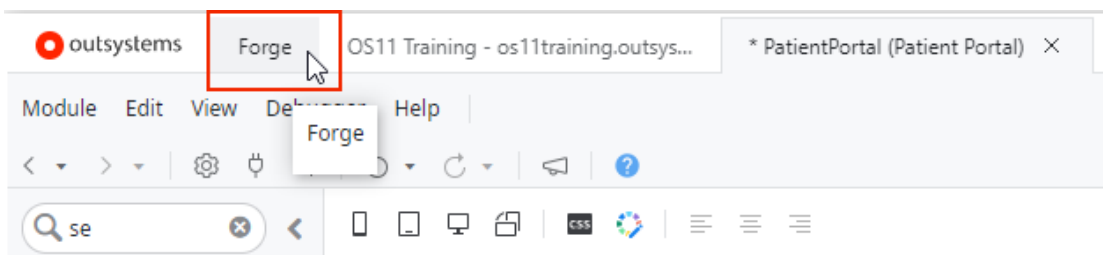
The new user should be able to digitally sign the form. Let's use a Forge component to help us. The OutSystems Forge is a repository of reusable, open code modules, connectors, UI components, and business solutions to help speed up the app delivery time. Reusability is key!

## Forge Component

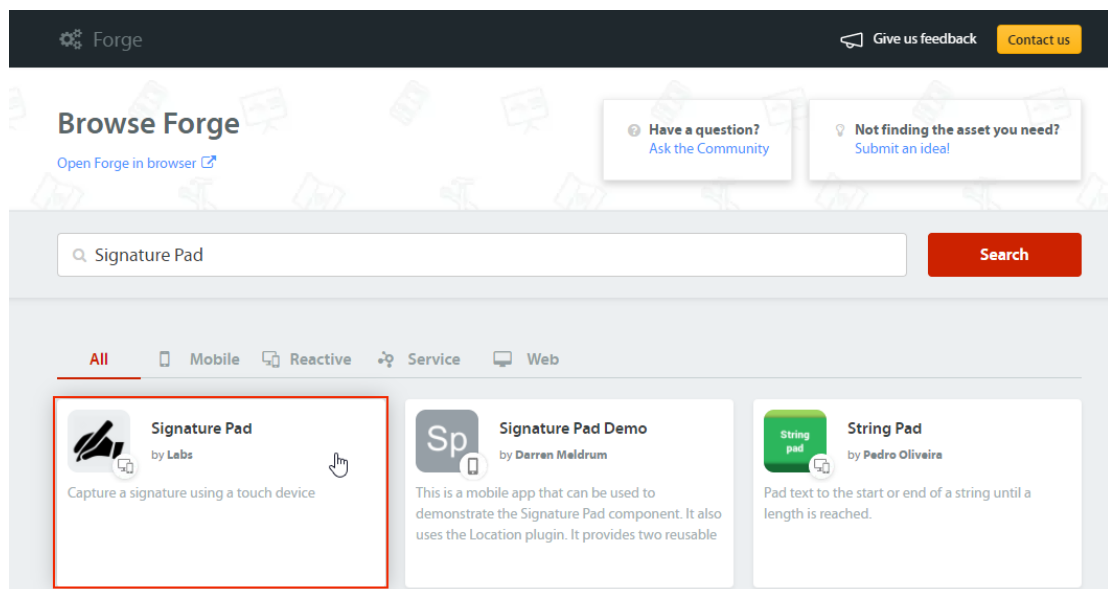
- 1) Drag and drop another **Separator** under the last Container.



- 2) Click on the **Forge** tab in the top left corner of Service Studio.



- 3) Search for the **Signature Pad** component and then click on it.





- 4) Click on **Install** to download the component to your environment.

[Go to list](#)



### Signature Pad

Stable version **1.0.3** (Compatible with **OutSystems 11**)

Other versions available [↗](#)

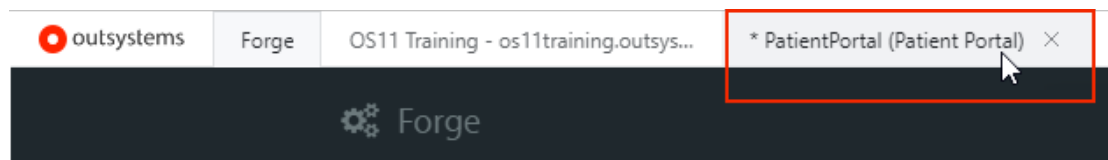
Published on **16 November 2020** by [Daniel Kuhlmann](#)

**Install...**

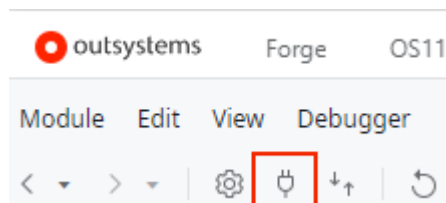
**Note:** you can create your own Forge components and share them with the community! OutSystems has an amazing [Community](#) of developers that are constantly sharing ideas, components and apps, and supporting each other!

After installing the Signature Pad, you need to reference it in your Patient Portal.

- 5) Go back to the **Patient Portal** module by clicking on the respective tab.

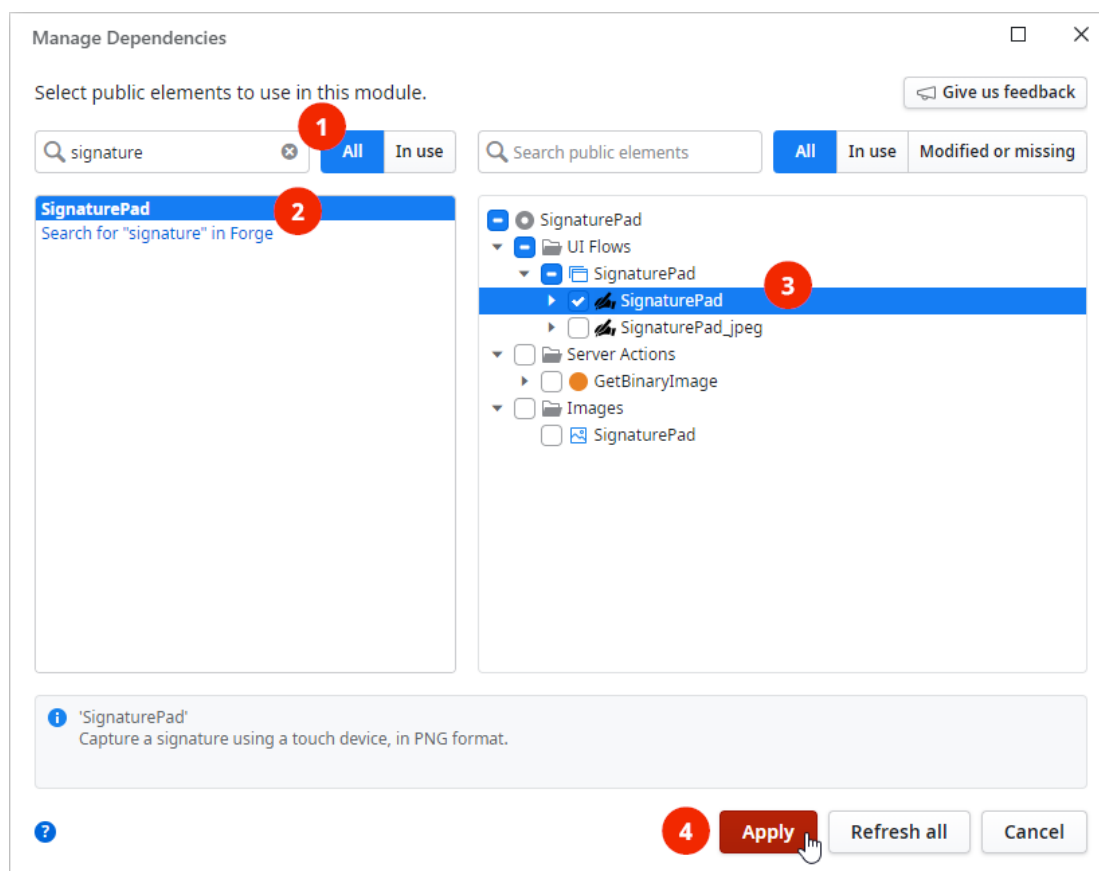


- 6) Open the **Manage Dependencies** window by clicking on the Icon shown in the picture below.



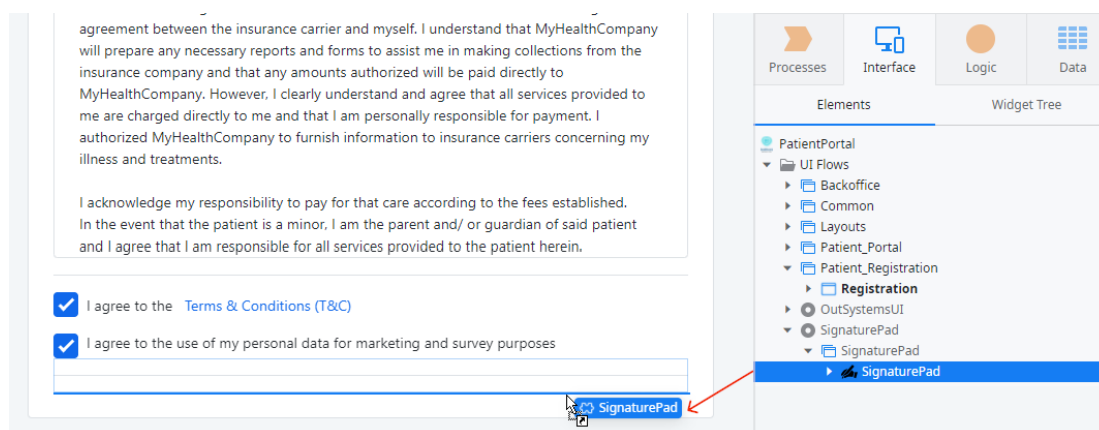
- 7) A popup dialog will appear. Click on **All** to see all elements available to be referenced by the Patient Portal module. Search for the module **SignaturePad** and click on the result to select it. Then, on the right side of the dialog, select

the **SignaturePad** element and click on **Apply** to close the window and create the reference to the element.



This is what you need to do when you want to reference elements from other apps. Just search for the right module, select it, find the element you want, select it as well, and click Apply.

- 8) In the right sidebar of Service Studio, under the Interface tab, expand the **SignaturePad** folder. Then, drag the **SignaturePad** Block and drop it under the last Separator.



- 9) You can now see the properties of the SignaturePad on the right sidebar. Set the **Height** to *100* and the **ShowDone** property to **False**.

SignaturePad\SignaturePad

Properties

Name

Source Block

Height

BackgroundColor

BorderColor

ShowClear

ShowDone

ClearButtonText

DoneButtonText

There is still an error in the **Handler** property of the StrokeFinished Event in the Events section of the property. You need to define what is the desired behavior when the user stops signing.

SignaturePad\SignaturePad

Properties

Styles

Name

Source Block

Height

BackgroundColor

BorderColor

ShowClear

ShowDone

ClearButtonText

DoneButtonText

Events

Event

Handler

Event

Handler

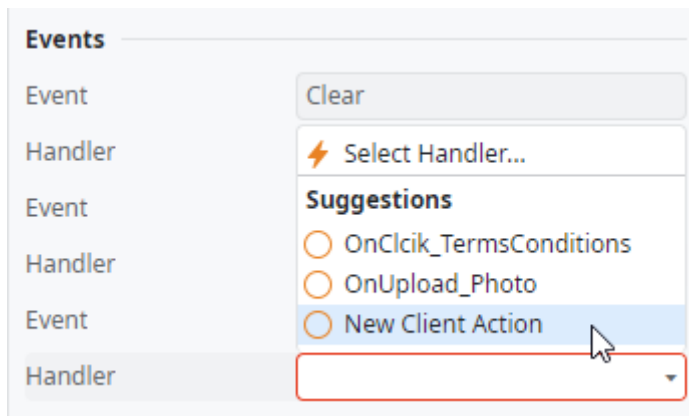
Event

Handler

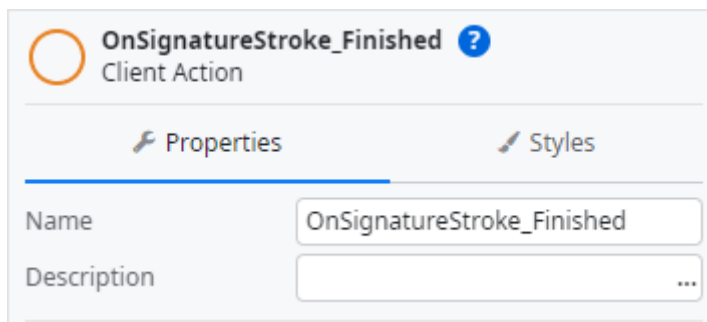
## Stroke Finished Logic

To save the signature, you will need to assign what the user signed to the Signature field of the PatientOnboarding Local Variable.

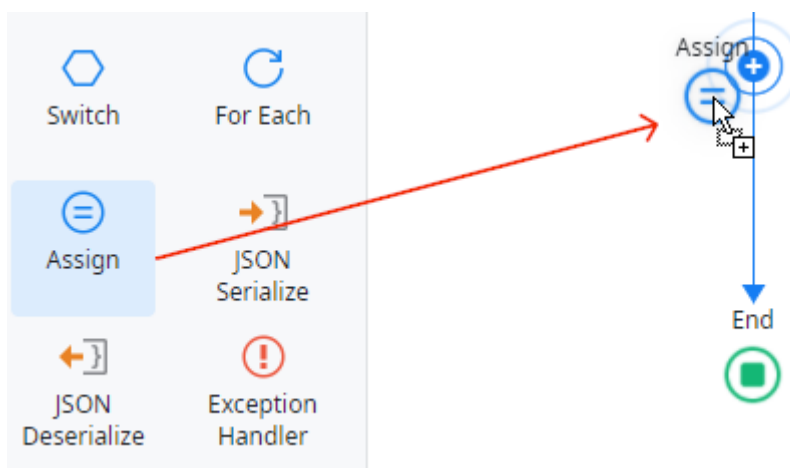
- 1) Click on the **Handler** property of the StrokeFinished Event and select **New Client Action**.



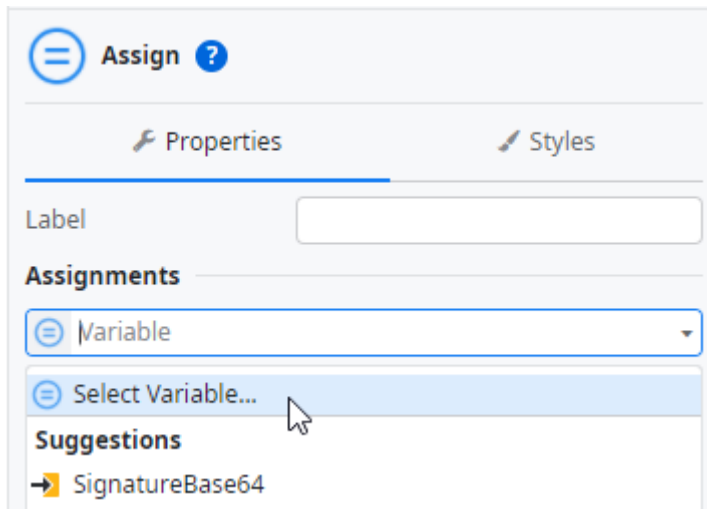
- 2) Set the **Name** of the new Client Action to *OnSignatureStroke\_Finished*.



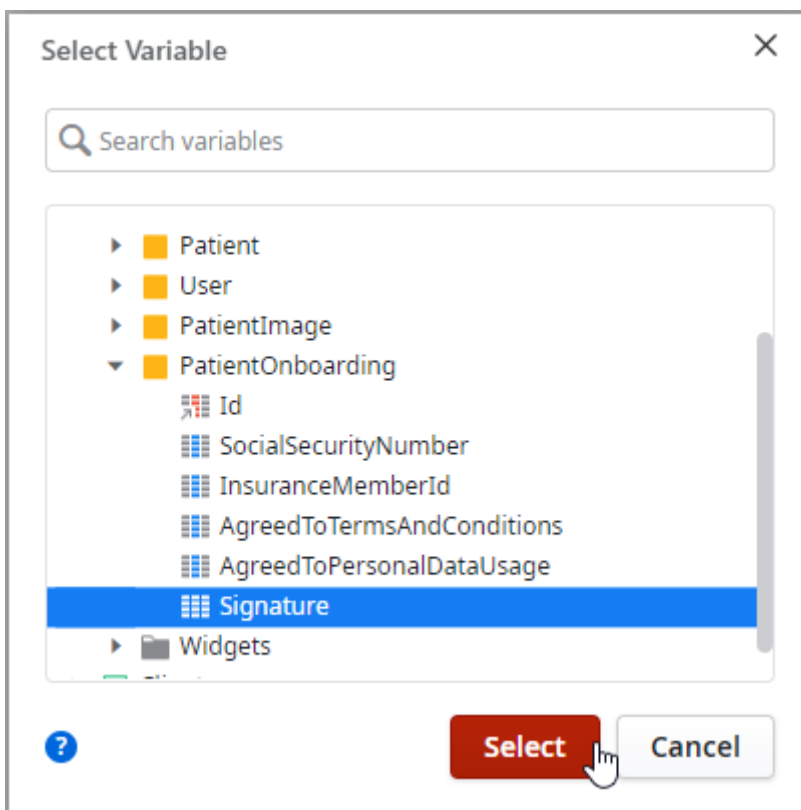
- 3) Drag and drop an **Assign** element from the left sidebar to the empty Action Flow.



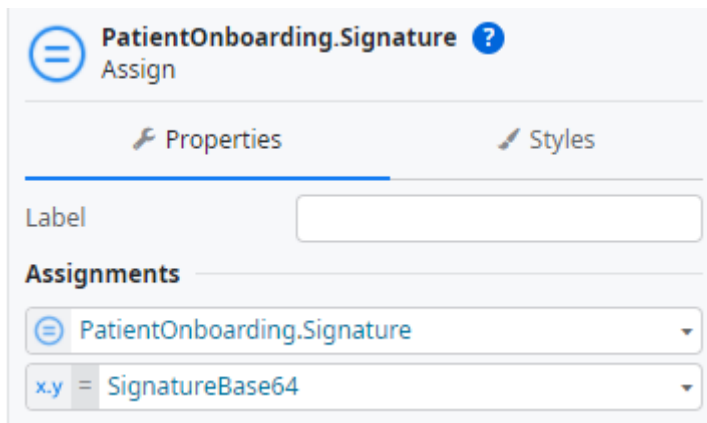
- 4) Click on the dropdown of the Variable, then **Select Variable**



- 5) Expand the **PatientOnboarding** variable and select the Signature attribute. Click on **Select** when you're done.



- 6) Click on the Value property and select the input parameter **SignatureBase64**.



To perform the assign, you are using a value that is given by the SignaturePad Block. This has the content of the user's signature. So, to have the signature implemented, you just need to reference the Block, drag it, and set the logic to save the signature on the Local Variable. The component does the rest for you. Your Handler should look like this:

Patient\_Registration ▶ Registration ▶ OnSignatureStroke\_Finished



- 7) Publish the module and open it in the browser.




## Testing your app

Now that the consent part of the Form is ready, it's time to test your app again.

- 1) Navigate to the Registration Screen. Expand / collapse the accordions to show / hide the full text. Don't forget you can easily customize this with your own text and terms!

### Registration



First Name \*

Last Name \*

Birth Date \*

mm/dd/yyyy

Mobile Phone

Email

Password

Social Security Number \*

Insurance Member \*

Consent to treat

▼

Consent to bill insurance and collect payment

▼

☐ I agree to the [Terms & Conditions \(T&C\)](#)

☐ I agree to the use of my personal data for marketing and survey purposes

Clear

- 2) Click on the checkboxes to test if they change accordingly, then write something in the signature area.



A screenshot of a web form. At the top, there are two checkboxes, both of which are checked. The first checkbox is followed by the text "I agree to the" and a blue link "Terms & Conditions (T&C)". The second checkbox is followed by the text "I agree to the use of my personal data for marketing and survey purposes". Below the checkboxes is a horizontal line. Underneath the line, on the left, is a blue link labeled "Clear". To the right of the "Clear" link, the name "PWesley" is written in a black, cursive script font. Below the signature is another horizontal line.

- 3) Click on **Clear** to see the signature disappear. This is used in case the user wants to erase their signature and redo it.



You're done with the UI! Join us on the next tutorial to create the logic to save all of this in the database.



## Wrapping up

Congratulations on finishing this tutorial. With this exercise, you had the chance to go through some essential aspects of OutSystems and use a Forge component.

## References

If you want to deep dive into the subjects that we have seen in this exercise, we have prepared some useful links for you:

- 1) [OutSystems UI](#)
- 2) [Accordion](#)
- 3) [Align Center](#)
- 4) [OutSystems Forge](#)
- 5) [Forge components best practices](#)
- 6) [Expose and reuse functionality between modules](#)

**See you in the next tutorial!**