


LABORATORIUM 3. TWORZENIE INTERFEJSU UŻYTKOWNIKA.

Zadanie 3.1. Wzbogacenie modelu danych

The screenshot displays the 'Account Briteret' form in the Pollub application. The form is divided into several sections: 'SLA Expiration Date', 'Number of Locations', 'Active', 'Created By' (Jakub Łabendowicz, 03/03/2022, 10:54), 'Description', 'Billing', 'SLA Serial Number', 'Upsell Opportunity', 'Last Modified By' (Jakub Łabendowicz, 03/03/2022, 22:09), and 'New Fields' (First Service Datetime, Has Open Invoice, Last Status Change Datetime). The form is set against a blue background with a subtle pattern. The top navigation bar includes a search bar and various icons. The bottom status bar shows 'javascript:void(0)'.

The screenshot displays the 'Invoice 1-0000' form in the Pollub application. The form is divided into several sections: 'Service', 'Service company', 'Property Service', 'Amount Information' (Amount: €50.00, Country: Poland, Tax: 23.00, Tax Amount: €11.50), 'Created By' (Jakub Łabendowicz, 10/10/2022, 20:00), 'Last Modified By' (Jakub Łabendowicz, 17/10/2022, 12:44), and 'New Fields' (Description, Status, Balance). The form is set against a blue background with a subtle pattern. The top navigation bar includes a search bar and various icons. The bottom status bar shows 'organizer'.



Pollub
Accounts
Account Services
Services
Payments
Invoices
Properties
Property Services
Service companies
Country Tax Rates

Property
P-0000

New Contact
Edit
New Case

Property Name
P-0000

Description
sdvsfdvbsd

Account
Brittenet

Localization Information

Address
Lublin

Geolocation
50, 50

Created By
Jakub Labendowicz · 17/10/2022, 12:44

Last Modified By
Jakub Labendowicz · 17/10/2022, 12:44

New Fields

Status

Size

Floor

Invoice Screen Flow

Form


Service
Search Services...

Property
Search Properties...

Country
--None--

Next





Pollub
Accounts
Account Services
Services
Payments
Invoices
Properties
Property Services
Service companies
Country Tax Rates

Service
S-0000

New Contact
Edit
New Case

Service Information

Type
jakis pierwszy

Time Required
04/10/2022, 12:00

Service company
Robota

Price Information

Price
€5,452,345.00

Created By
Jakub Labendowicz · 04/10/2022, 18:49

Last Modified By
Jakub Labendowicz · 17/10/2022, 14:19

New Fields

People Required

Description

Additional options



Zadanie 3.2. Konfiguracja standardowych layoutów

The screenshot shows the Salesforce Setup interface for configuring the 'Invoice' layout. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts (selected), Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, and Restriction Rules. The main content area displays the 'Invoice Detail' layout configuration. At the top, there are tabs for 'Save', 'Quick Save', 'Preview As...', 'Cancel', 'Undo', 'Redo', and 'Layout Properties'. Below these tabs, a section titled 'Actions in the Salesforce Classic Publisher section' provides instructions. The layout itself is divided into several sections: 'Information' (Invoice Name: GEN-2004-001234, Owner: Sample Text), 'Service Information' (Service: Sample Text, Service company: Sample Text, Property Service: Sample Text), 'Amount Information' (Amount: €123.45, Country: Sample Text, Tax: 878.01, Tax Amount: €123.45), 'System Information' (Created By: Sample Text, Last Modified By: Sample Text), and 'Custom Links'. A 'New Fields' section is also visible at the bottom.

The screenshot shows the Salesforce Setup interface for configuring the 'Account' layout. The left sidebar contains a navigation menu with options like Details, Fields & Relationships, Page Layouts (selected), Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, and Hierarchy Columns. The main content area displays the 'Account' layout configuration. At the top, there are tabs for 'Save', 'Quick Save', 'Preview As...', 'Cancel', 'Undo', 'Redo', and 'Layout Properties'. Below these tabs, a section titled 'Custom sections' is visible. The layout itself is divided into several sections: 'Company Information' (Account Name: Sample Text, Status: Sample Text), 'Finance Information' (Balance: €123.45), 'Account Information' (Account Owner: Sample Text, Parent Account: Sample Text, Account Number: Sample Text, Account Site: Sample Text, Type: Sample Text, Industry: Sample Text, Annual Revenue: €123.45, Number of deals: 33,833, Number of won deals: 22,062, Last won deal date: 17/10/2022, Amount of won deals: €123.45, Deal win percent: 741.43%, Call for Service: Sample Text), 'Rating' (Sample Text), 'Phone' (1-415-555-1212), 'Fax' (1-415-555-1212), 'Website' (www.salesforce.com), 'Ticker Symbol' (Sample Text), 'Ownership' (Sample Text), 'Employees' (21,572), 'SIC Code' (Sample Text), and 'Address Information' (Billing Address: Suite 300, The Landmark @ One Market, Shipping Address: Suite 300, The Landmark @ One Market).

Setup

Home

Object Manager

Search Setup

SETUP > OBJECT MANAGER

Property

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Save Quick Save Preview As... Cancel Undo Redo Layout Properties

Actions in the Salesforce Classic Publisher section, and have saved the layout, then this section inherits that set of actions by default when you click to override.

Property Detail

Standard Buttons

Edit Delete Clone Change Owner Change Record Type Printable View Custom Buttons

Information (Header visible on edit only)

Property Name GEN-2004-001234

Description Sample Text

Account Sample Text

Localization Information

Address Sample Text

Geolocation Sample Text

System Information (Header visible on edit only)

Created By Sample Text

Last Modified By Sample Text

Custom Links (Header visible on edit only)

New Fields

Status Sample Text

Size 657.55

Floor 71,313

Setup

Home

Object Manager

Search Setup

SETUP > OBJECT MANAGER

Service

Details

Fields & Relationships

Page Layouts

Lightning Record Pages

Buttons, Links, and Actions

Compact Layouts

Field Sets

Object Limits

Record Types

Related Lookup Filters

Search Layouts

List View Button Layout

Restriction Rules

Save Quick Save Preview As... Cancel Undo Redo Layout Properties

Actions in this section are predefined by Salesforce. You can override the predefined actions to set a customized list of actions on Lightning Experience and mobile app pages that use this layout. If you customize the actions in the Quick Actions in the Salesforce Classic Publisher section, and have saved the layout, then this section inherits that set of actions by default when you click to override.

Service Detail

Standard Buttons

Edit Delete Clone Change Owner Change Record Type Printable View Sharing Sharing Hierarchy Custom Buttons

Information (Header visible on edit only)

Service Name GEN-2004-001234

Owner Sample Text

Service Information

Type Sample Text

Service company Sample Text

Time Required 17/10/2022, 16:16

Price Information

Price €123.45

System Information (Header visible on edit only)

Created By Sample Text

Last Modified By Sample Text

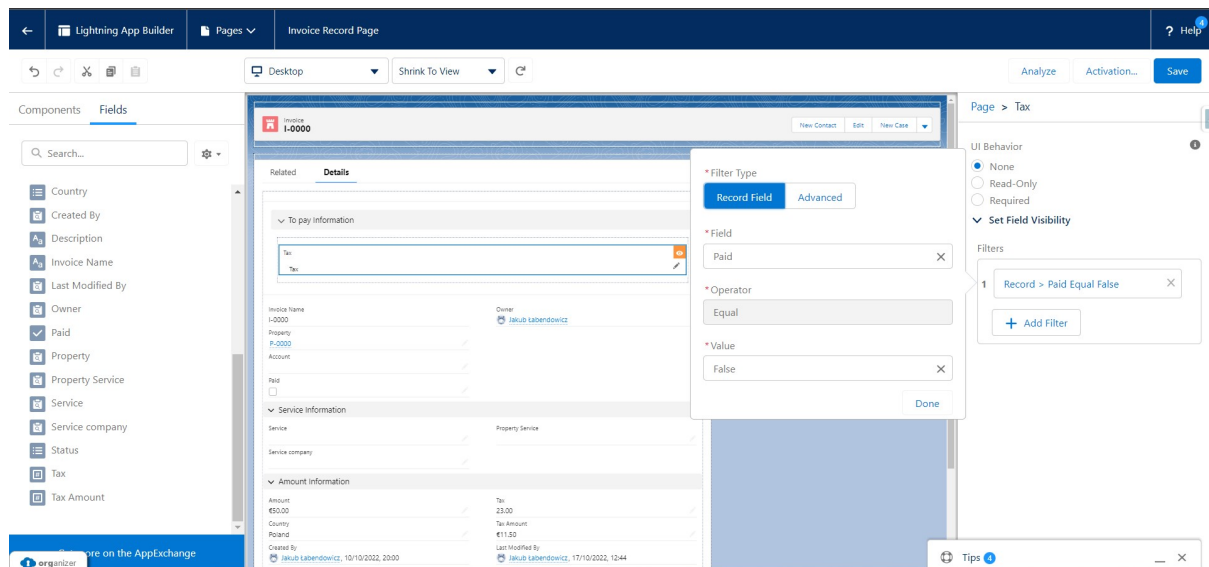
Custom Links (Header visible on edit only)

New Fields

People Required 20,355

Description Sample Text

Zadanie 3.3. Stworzenie Lightning Record Page



▼ To pay Information

Tax
23.00

Invoice Name
I-0000

Owner
 [Jakub tabendowicz](#)

Property
[P-0000](#)

Account

Paid
☐

Related Details

Invoice Name
I-0000

Owner
 [Jakub tabendowicz](#)

Property
[P-0000](#)

Account

Paid
☒

Activation: Invoice Record Page

- ⚡ **App default** page assignment, if specified, overrides the org default.
 - 📄 **App, record type, profile** assignments override org and app defaults.
- [Learn more about Lightning page assignment.](#)

ORG DEFAULT

APP DEFAULT

APP, RECORD TYPE, AND PROFI...

Set a combination of apps, record types, and profiles to display this custom record page. This setting is the most specific and allows for fine-grained customization within a Lightning app.

Assignments (1)

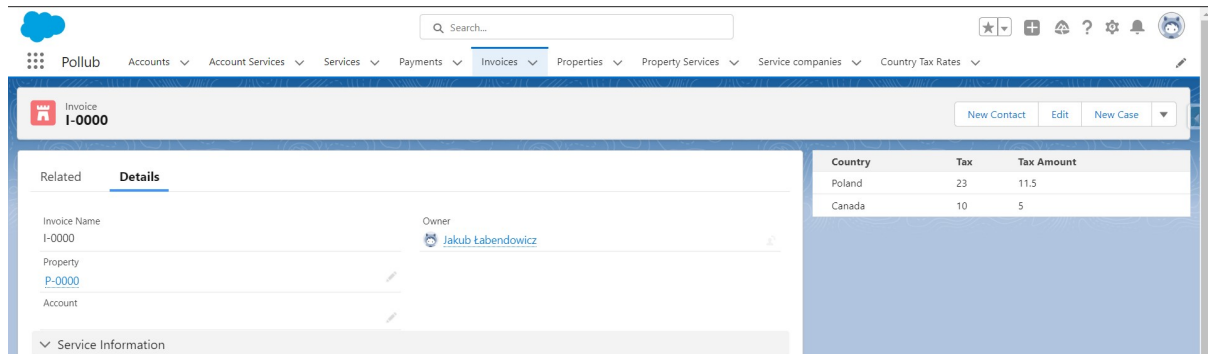
[Add Assignments](#)

[Remove Assignments](#)

APP	RECORD TYPE	PROFILE	FORM FACTOR
Pollub	Master	System Administrator	Desktop

Close

Zadanie 3.4. Stworzenie komponentu LWC



The screenshot shows the Salesforce interface for an Invoice record (I-0000). The top navigation bar includes the Pollub logo and a search bar. The main navigation menu shows various tabs: Accounts, Account Services, Services, Payments, Invoices (selected), Properties, Property Services, Service companies, and Country Tax Rates. The Invoice record details are displayed, including the Invoice Name (I-0000), Property (P-0000), and Account. The Owner is Jakub Labendowicz. A table of Country Tax Rates is shown on the right, with columns for Country, Tax, and Tax Amount.

Country	Tax	Tax Amount
Poland	23	11.5
Canada	10	5

```
pollub_CountryTaxRates.html X
force-app > main > default > lwc > pollub_CountryTaxRates > pollub_CountryTaxRates.html > template
1 <template>
2   <table class="slds-table slds-table_cell-buffer slds-table_bordered" aria-labelledby="element-with-table-label other-element-with-table-label">
3     <thead>
4       <tr class="slds-line-height_reset">
5         <th>
6           <div class="slds-truncate" title="Country">Country</div>
7         </th>
8         <th class="" scope="col">
9           <div class="slds-truncate" title="Tax">Tax</div>
10        </th>
11        <th class="" scope="col">
12          <div class="slds-truncate" title="Tax Amount">Tax Amount</div>
13        </th>
14      </tr>
15    </thead>
16    <tbody>
17      <template for:each={countryTaxRates} for:item="countryTaxRate">
18        <tr key={countryTaxRate.Id} class="slds-hint-parent">
19          <td>
20            <div class="slds-truncate" title={countryTaxRate.record.Country__c}>{countryTaxRate.record.Country__c}</div>
21          </td>
22          <td>
23            <div class="slds-truncate" title={countryTaxRate.record.Tax__c}>{countryTaxRate.record.Tax__c}</div>
24          </td>
25          <td>
26            <div class="slds-truncate" title={countryTaxRate.taxAmount}>{countryTaxRate.taxAmount}</div>
27          </td>
28        </tr>
29      </template>
30    </tbody>
31  </table>
32  <c-spinner show={showSpinner}></c-spinner>
33 </template>
```

```

pollub_CountryTaxRates.js X
force-app > main > default > lwc > pollub_CountryTaxRates > pollub_CountryTaxRates.js > Pollub_CountriesTaxes > connectedCallback > then() callback
1 import { LightningElement, track, api } from 'lwc';
2 import selectCountryTaxRates from '@salesforce/apex/Pollub_CountryTaxRatesController.selectCountryTaxRates';
3 import selectInvoice from '@salesforce/apex/Pollub_CountryTaxRatesController.selectInvoice';
4 import { ShowToastEvent } from 'lightning/platformShowToastEvent';
5
6 export default class Pollub_CountriesTaxes extends LightningElement {
7     @track showSpinner = false;
8     @track countryTaxRates = [];
9     @track invoice = {};
10
11     @api recordId;
12
13     connectedCallback() {
14         this.showSpinner = true;
15
16         selectInvoice({id: this.recordId})
17         .then(result=>{
18             this.invoice=result;
19             this.showSpinner = false;
20
21             selectCountryTaxRates()
22             .then(result=>{
23                 this.countryTaxRates=result.map((countryTaxRate, index) => {
24                     return {
25                         record: countryTaxRate,
26                         taxAmount: this.invoice.Amount__c * (countryTaxRate.Tax__c / 100)
27                     }
28                 });
29                 console.log(this.countryTaxRates);
30                 this.showSpinner = false;
31             })
32             .catch(error=>{
33                 const errorToastEvent = new ShowToastEvent({
34                     title:'Error!',
35                     message:error.message,
36                     variant:'Error'
37                 });

```

```

20
21     selectCountryTaxRates()
22     .then(result=>{
23         this.countryTaxRates=result.map((countryTaxRate, index) => {
24             return {
25                 record: countryTaxRate,
26                 taxAmount: this.invoice.Amount__c * (countryTaxRate.Tax__c / 100)
27             }
28         });
29         console.log(this.countryTaxRates);
30         this.showSpinner = false;
31     })
32     .catch(error=>{
33         const errorToastEvent = new ShowToastEvent({
34             title:'Error!',
35             message:error.message,
36             variant:'Error'
37         });
38         this.dispatchEvent(errorToastEvent);
39         this.showSpinner = false;
40     });
41 })
42 .catch(error=>{
43     const errorToastEvent = new ShowToastEvent({
44         title:'Error!',
45         message:error.message,
46         variant:'Error'
47     });
48     this.dispatchEvent(errorToastEvent);
49     this.showSpinner = false;
50 });
51 }
52 }

```

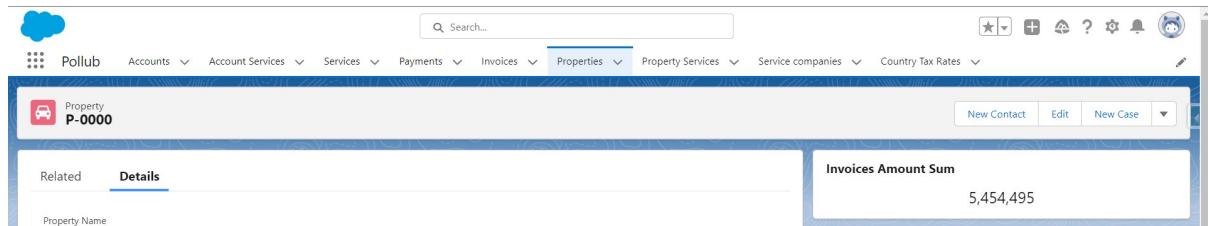

pollub_CountryTaxRates.js

Pollub_CountryTaxRatesController.cls X

force-app > main > default > classes > Pollub_CountryTaxRatesController.cls

```
1 public with sharing class Pollub_CountryTaxRatesController {
2     @AuraEnabled
3     public static List<Country_Tax_Rate__c> selectCountryTaxRates(){
4         try {
5             List<Country_Tax_Rate__c> countryTaxRates = [
6                 SELECT Id, Name, Country__c, Tax__c
7                 FROM Country_Tax_Rate__c
8             ];
9             return countryTaxRates;
10        } catch (Exception e) {
11            throw new AuraHandledException(e.getMessage());
12        }
13    }
14
15    @AuraEnabled
16    public static Invoice__c selectInvoice(Id id){
17        try {
18            List<Invoice__c> countryTaxRates = [
19                SELECT Id, Name, Amount__c
20                FROM Invoice__c
21                WHERE Id = :id
22            ];
23            return countryTaxRates[0];
24        } catch (Exception e) {
25            throw new AuraHandledException(e.getMessage());
26        }
27    }
28 }
```

Zadanie 3.5. Stworzenie komponentu Aura



```
Pollub_PropertyInvoicesAmountSum.cmp X
force-app > main > default > aura > Pollub_PropertyInvoicesAmountSum > Pollub_PropertyInvoicesAmountSum.cmp > ...
1 <aura:component controller="Pollub_PropertyInvoicesAmountSumCtrl" implements="flexipage:availableForAllPageTypes, force:lightningQuickAction,force:hasRecordId">
2   <aura:attribute name="recordId" type="String" />
3   <aura:attribute name="propertyInvoicesAmountSum" type="Decimal" default="0"/>
4
5   <aura:handler name="init" value="{! this}" action="{!c.onInit}"/>
6
7   <lightning:card title="Invoices Amount Sum">
8     <div style="display: flex; flex-direction: flow; justify-content: center; font-size: 20px;">
9       <ui:outputNumber value="{!v.propertyInvoicesAmountSum}"/>
10    </div>
11  </lightning:card>
12 </aura:component>
```

```
JS Pollub_PropertyInvoicesAmountSumController.js X
force-app > main > default > aura > Pollub_PropertyInvoicesAmountSum > JS Pollub_PropertyInvoicesAmountSumController.js > ...
1 {{
2   onInit: function(component, event, helper) {
3     helper.getPropertyInvoicesAmountSum(component, event, helper);
4   }
5 }}
6
```

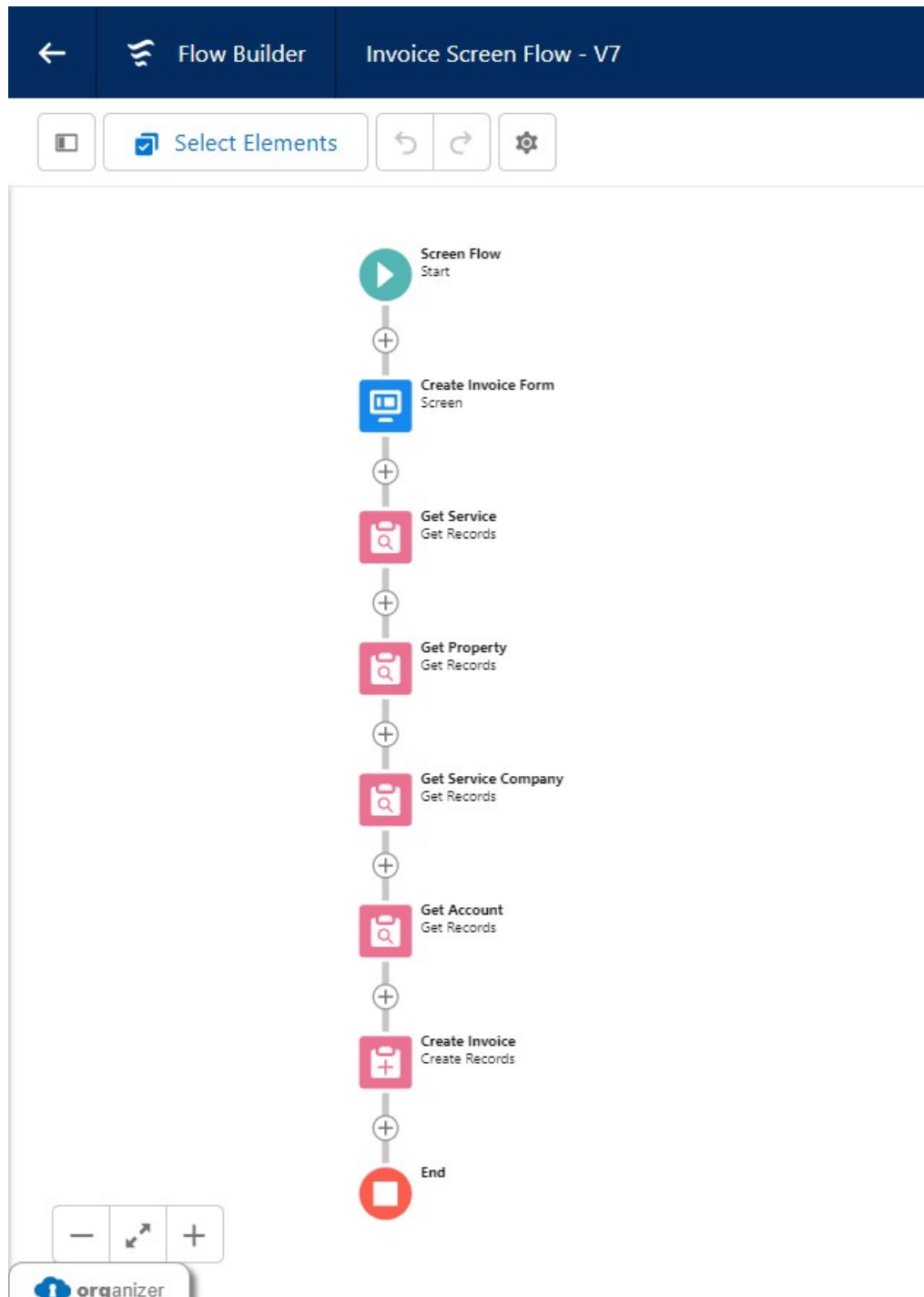
```
JS Pollub_PropertyInvoicesAmountSumHelper.js X
force-app > main > default > aura > Pollub_PropertyInvoicesAmountSum > JS Pollub_PropertyInvoicesAmountSumHelper.js > ...
1 {{
2   getPropertyInvoicesAmountSum : function(component, event, helper) {
3     const id = component.get('v.recordId');
4     var action = component.get("c.selectPropertyInvoicesAmountSum");
5     action.setParams({id : id});
6     action.setCallback(this, function(response) {
7       if(response.getState() === 'SUCCESS') {
8         let value = response.getReturnValue();
9         component.set('v.propertyInvoicesAmountSum', value);
10      } else if(response.getState() === 'ERROR') {
11      }
12    });
13  };
14  $A.enqueueAction(action);
15 }
16 }}
```

Pollub_PropertyInvoicesAmountSumCtrl.cls X

force-app > main > default > classes > Pollub_PropertyInvoicesAmountSumCtrl.cls

```
1 public with sharing class Pollub_PropertyInvoicesAmountSumCtrl {
2     @AuraEnabled
3     public static Decimal selectPropertyInvoicesAmountSum(Id id){
4         try {
5             List<Invoice__c> invoices = [
6                 SELECT Id, Name, Amount__c
7                 FROM Invoice__c
8                 WHERE Property__c = :id
9             ];
10            Decimal propertyInvoicesAmountSum = 0;
11            for (Invoice__c invoice : invoices) {
12                if (invoice.Amount__c != null) {
13                    propertyInvoicesAmountSum = propertyInvoicesAmountSum + invoice.Amount__c;
14                }
15            }
16            return propertyInvoicesAmountSum;
17        } catch (Exception e) {
18            throw new AuraHandledException(e.getMessage());
19        }
20    }
21 }
```

Zadanie 3.6. Stworzenie Screen Flow do stworzenia zamówienia na usługę





Pollub

Accounts

Account Services

Services

Payments

Invoices

Properties

Property Services

Service companies

Country Tax Rates

Search...



Property
P-0000

New Contact

Edit

New Case

Related

Details

Property Name

P-0000

Description

sdvsfdvbsd

Account

[Briteret](#)

Localization Information

Address

Lublin

Geolocation

50, 50

Created By

[Jakub Łabendowicz](#), 17/10/2022, 12:44

Last Modified By

[Jakub Łabendowicz](#), 17/10/2022, 12:44

New Fields

Status

Size

Invoices Amount Sum

5,454,495

Invoice Screen Flow

Form

Service

Search Services...



Property

Search Properties...



Country

--None--

Next

organizer