

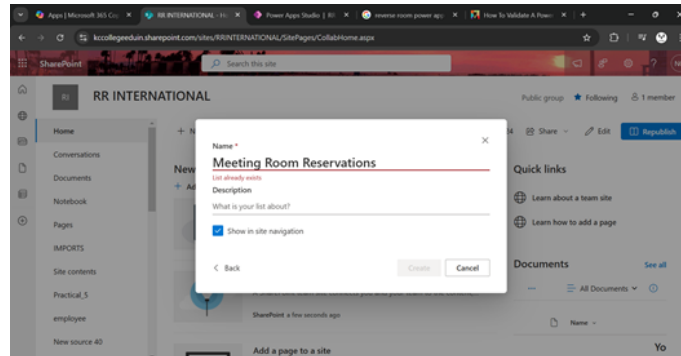
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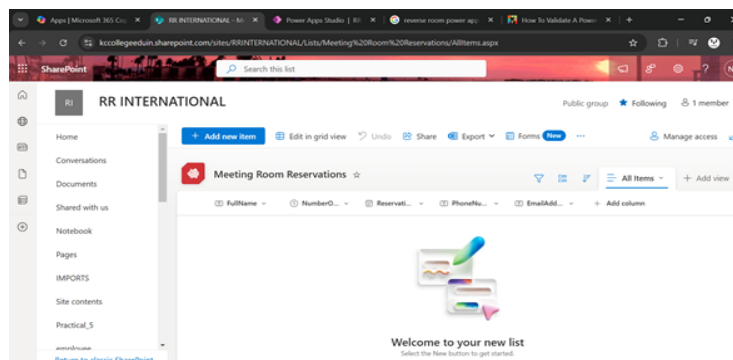
PRACTICAL NO. 6

Step 1: Create the SharePoint List

1. Go to **SharePoint** and create a new list named "**Meeting Room Reservations**".



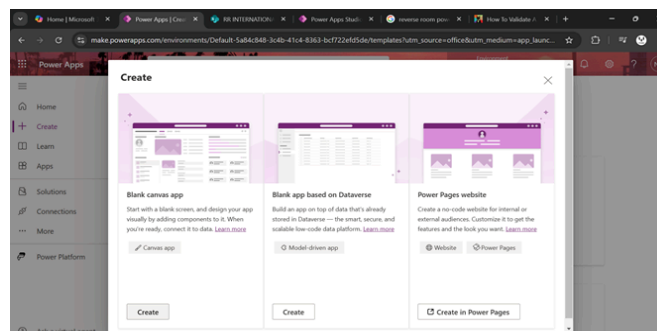
2. Add the following columns:
 - **FullName** (Single line of text)
 - **NumberOfPeople** (Number)
 - **ReservationDate** (Date and Time)
 - **PhoneNumber** (Single line of text)
 - **EmailAddress** (Single line of text)



3. Do **not** add any data yet.

Step 2: Create a PowerApps Form

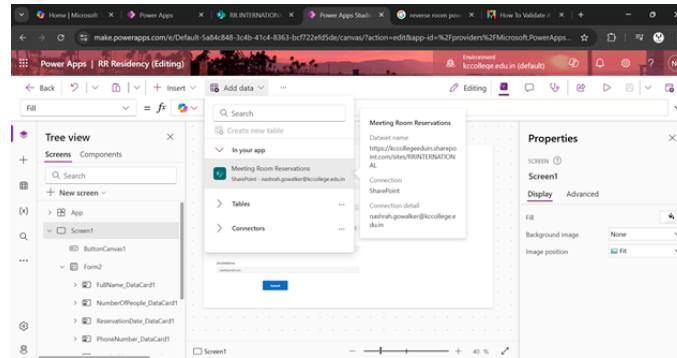
1. Go to **PowerApps**.
2. Click **Create > Canvas app from blank**.



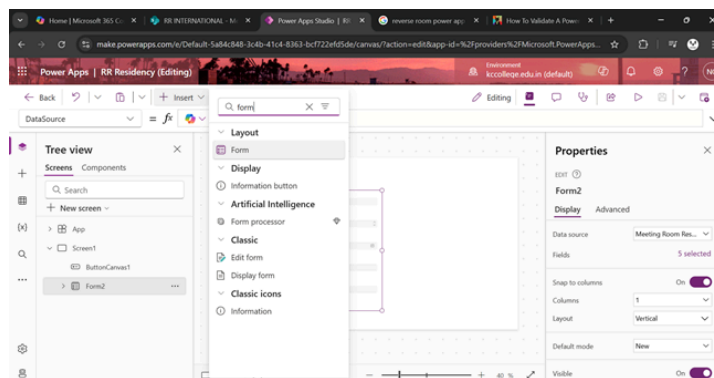
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3. Connect the app to the **"Meeting Room Reservations"** SharePoint list:
 - Click **Data** (left panel).
 - Click **Add data** > **Select SharePoint**.
 - Choose your **SharePoint** site and select the **"Meeting Room Reservations"** list.



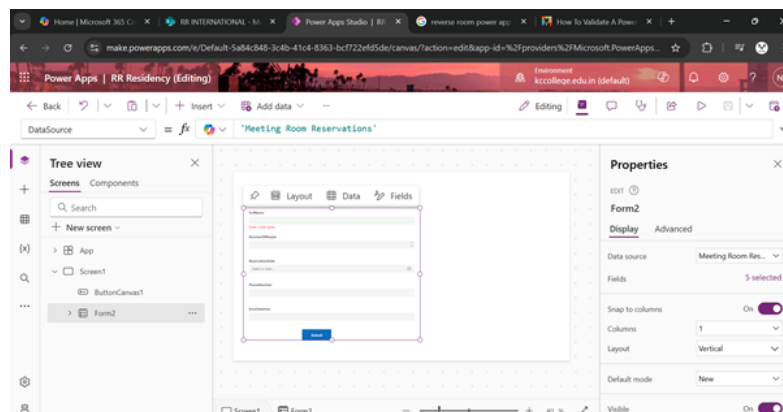
4. Insert an **Edit Form** control on the screen.



5. Set the **Items** property of the form to: 'Meeting Room Reservations'

6. Arrange the fields in this order:

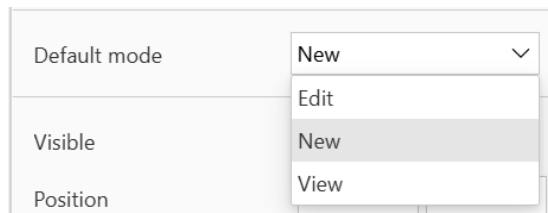
- Full Name
- Number of People
- Reservation Date
- Phone Number
- Email Address



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7. Set the **FormMode** property to:



Step 3: Add a Submit Button

1. Insert a **Button** below the form.
2. Set its **Text** property to "Submit".
3. Set the **OnSelect** property to track form submission:



```
UpdateContext({ locIsFormSubmitted: true });
```

Step 4: Validate the Full Name Field

Validation Rule: The Full Name must be required.

1. Update the **OnSelect** property of the Submit button:

```
UpdateContext({ locValidationRuleFullNameRequired: !IsBlank(DataCardValue6.Text)});
```

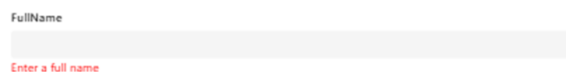
Insert a **Label** below the input field to show an error message.

2. Set the **Value** property of the label:

```
If( IsBlank(DataCardValue6.Text), "Enter a full name")
```

3. Set the **Color** property to **Red**.

```
Color.Red
```



Step 5: Validate the Number of People Field

Validation Rule: Must be greater than 0.

1. Update the **OnSelect** property of the Submit button:

```
UpdateContext({ locValidationRuleNumberOfPeopleGtZero: Value(DataCardValue2.Text) > 0 });
```

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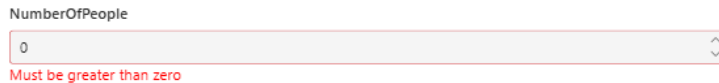
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2. Add a **Label** below the field with the following **Value** property:

`If(Value(DataCardValue2.Text) <= 0, "Must be greater than zero")`

3. Set the **Color** property to **Red**.

Color.Red



NumberOfPeople

0

Must be greater than zero

Step 6: Validate the Reservation Date Field

Validation Rule: Must be a future date and within 90 days.

1. Update the **OnSelect** property of the Submit button:

`UpdateContext({ locValidationRuleReservationDateIsFuture: DataCardValue3.SelectedDate > Today() });`

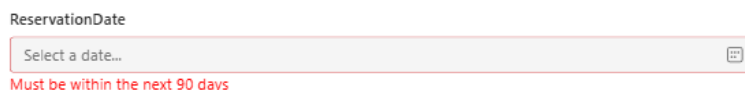
`UpdateContext({ locValidationRuleReservationDateNext90Days: DataCardValue3.SelectedDate - Today() <= 90 });`

2. Add a **Label** below the field and set its **Value** property:

```
If(
    DataCardValue3.SelectedDate <= Today(),
    "Must be a future date",
    If(
        DataCardValue3.SelectedDate > DateAdd(Today(), 90, "Days"),
        "Must be within the next 90 days",
        ""
    )
)
```

3. Set the **Color** property to **Red**.

Color.Red



ReservationDate

Select a date...

Must be within the next 90 days

Step 7: Validate the Phone Number Field

Validation Rule: Format must be ###-###-####.

1. Update the **OnSelect** property of the Submit button:

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```
UpdateContext({
  locValidationRulePhoneNumberFormat: IsMatch(
    DataCardValue4.Text,
    "[6-9]\d{9}$"
  )
});
```

2. Add a **Label** below the field and set its **Value** property:

```
If(
  Not(IsMatch(DataCardValue4.Text, "\d{10}$")),
  "Must be a 10-digit phone number",
  ""
)
```

3. Set the **Color** property to **Red**.

Color.Red

PhoneNumber

Must be in the format ###-###-####

Step 8: Validate the Email Address Field

Validation Rule: Must be a valid email format.

1. Update the **OnSelect** property of the Submit button:

```
UpdateContext({ locValidationRuleEmailAddressFormat: IsMatch(DataCardValue5.Text,
Match.Email) });
```

2. Add a **Label** below the field and set its **Value** property:

```
If(DataCardValue6.ValidationState="Error", "Must be a valid email address")
```

3. Set the **Color** property to **Red**.

Color.Red

EmailAddress

Must be a valid email address

Step 9: Submit the Form If Validation Passes

1. Modify the **OnSelect** property of the Submit button to check all validation rules:

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```
// Validation Rules
UpdateContext({ locIsFormSubmitted: true});
UpdateContext({ locValidationRuleFullNameRequired: !IsBlank(DataCardValue6.Text) });

UpdateContext({ locValidationRuleNumberOfPeopleGtZero: Value(DataCardValue2.Text) > 0
});
UpdateContext({ locValidationRuleReservationDateIsFuture: DataCardValue3.SelectedDate >
Today() });
UpdateContext({ locValidationRuleReservationDateNext90Days: DataCardValue3.SelectedDate
- Today() <= 90 });
UpdateContext({
    locValidationRulePhoneNumberFormat: IsMatch(
        DataCardValue4.Text,
        "[6-9]d{9}$"
    )
});

UpdateContext({ locValidationRuleEmailAddressFormat: IsMatch(DataCardValue5.Text,
Match.Email) });

// Submit form if all validation rules pass
If(
    And(
        locValidationRuleFullNameRequired,
        locValidationRuleNumberOfPeopleGtZero,
        locValidationRuleReservationDateIsFuture,
        locValidationRuleReservationDateNext90Days,
        locValidationRulePhoneNumberFormat,
        locValidationRuleEmailAddressFormat
    ),
    SubmitForm(Form1);
    ResetForm(Form1);
    Notify(
        "Please correct all errors before submitting the form",
        NotificationType.Error
    )
)

2. Set the OnSuccess property of the form:
Notify(
    "Meeting room reservation was made successfully",
    NotificationType.Success );
```

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Set(gblReserveARoom, Form2.LastSubmit);

3. Set the **Item** property of the form to:
gblReserveARoom

OUTPUT:

RSK Residency

FullName <input type="text"/> <small>Enter a full name</small>	NumberOfPeople <input type="text"/> <small>Must be greater than zero</small>
ReservationDate <input type="text" value="12/31/2001"/> <small>Must be a future date</small>	PhoneNumber <input type="text"/> <small>Must be a 10-digit phone number</small>
EmailAddress <input type="text"/> <small>The email should be in the format abc@gmail.com</small>	

Submit

RSK Residency

FullName <input type="text" value="ABC XYZ"/>	NumberOfPeople <input type="text" value="3"/>
ReservationDate <input type="text" value="2/8/2025"/> <small>Must be a future date</small>	PhoneNumber <input type="text" value="9825134070"/> <small>Must be a 10-digit phone number</small>
EmailAddress <input type="text" value="abc@gmail.com"/> <small>The email should be in the format abc@gmail.com</small>	

Submit

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Meeting room reservation was made successfully

RSK Residency

FullName

Enter a full name

ReservationDate

Must be a future date

EmailAddress

The email should be in the format abc@gmail.com

NumberOfPeople

Must be greater than zero

PhoneNumber

Must be a 10-digit phone number

Submit

Meeting Room Reservation ☆ ↻						🔍	☰	⌵	☰ All Items ▾
Title ▾	FullName ▾	① NumberO... ▾	📅 Reservati... ▾	📅 PhoneNu... ▾	📅 EmailAdd... ▾	+			
	ABC XYZ	3	2/8/2025	9825134070	abc@gmail.com				