

Page Builder App Documentation

A Product by Cloud-Virga

Note : The current state of the Application is currently in Progress/Under Development , kindly consider these Docs as a temporary reference until moved to Production , the App is open to changes

URL : <https://react-draggable-black.vercel.app>

Project Lead : Aaron Heidorn

Frontend Dev : John Hawley

Summary

What is the Page Builder App ?

Page Builder App is a sub-system of Loan Application Center , It is a utility service for Loan Officers to create custom Forms for their Users , willing to submit a Mortgage Application , Usually according to Policy Changes from the Government, requirements are always changing, as a result every time some different info is required to be submitted . The Page Builder App gives the autonomy to the Loan Officers to create custom forms for their clients and receive responses to those Applications individually .

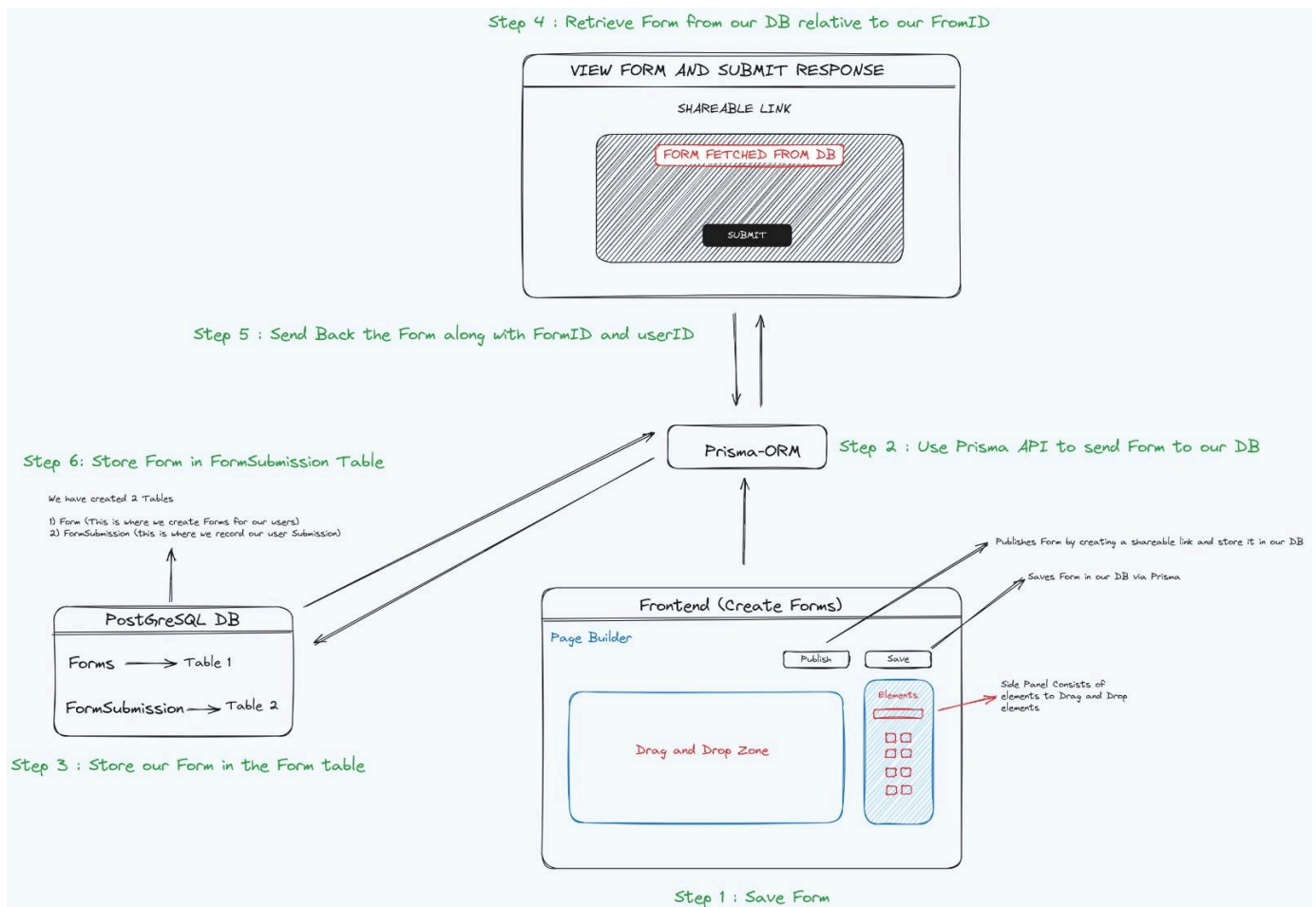
Tech Stack Used :-

Typescript
Next.js 13
Tailwind CSS
Dnd-kit (For drag and drop feature)
Clerk.js (Authentication)
Prisma(ORM)
Postgre SQL
Server Actions(Next.js)

Technical Overview

Currently we send the Data of the Forms to the Backend in the form of a JSON object and also fetch the the Form via JSON and render it as a HTML Component (explained in detail below) , The Application and form have **One to Many** Relationship currently , which means A Single Application can contain multiple forms ,after a Application is created the Loan Officers can Publish those Application and create a shareable link with their clients and record their responses. Currently we are using Server Actions as a temporary mechanism for dealing backend related stuff.

Fig 1.1



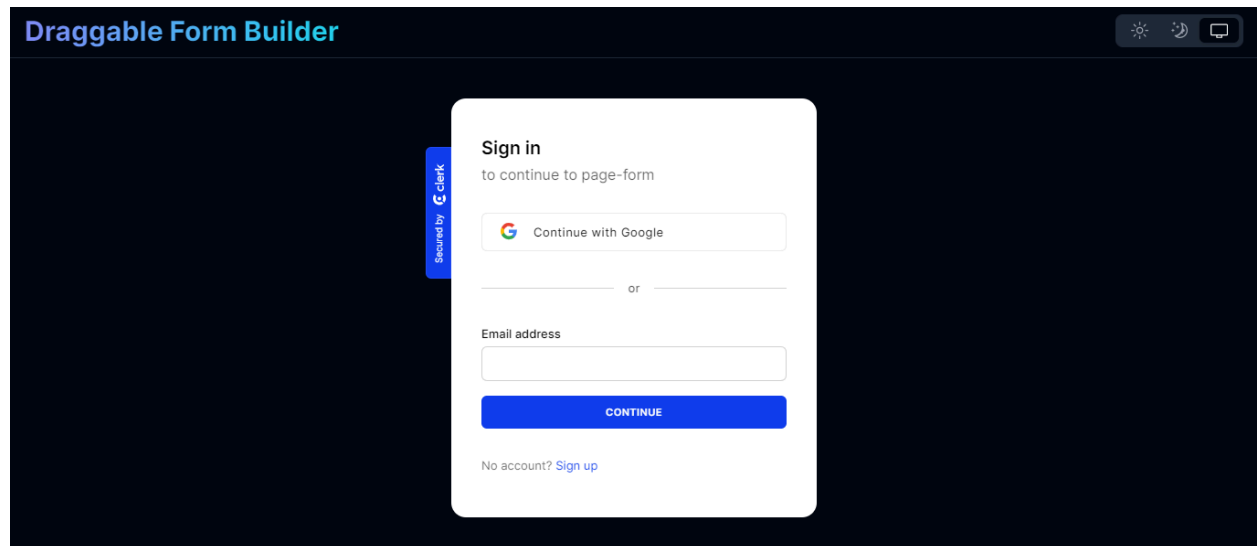
Functionality

- Login/SignUp
- Create an Application
- Create Multiple Forms in an Application

- Drag and Drop Elements in the From Builder
- View Application
- Edit Application
- Delete Application
- Create Forms
- Update Forms
- Delete Forms

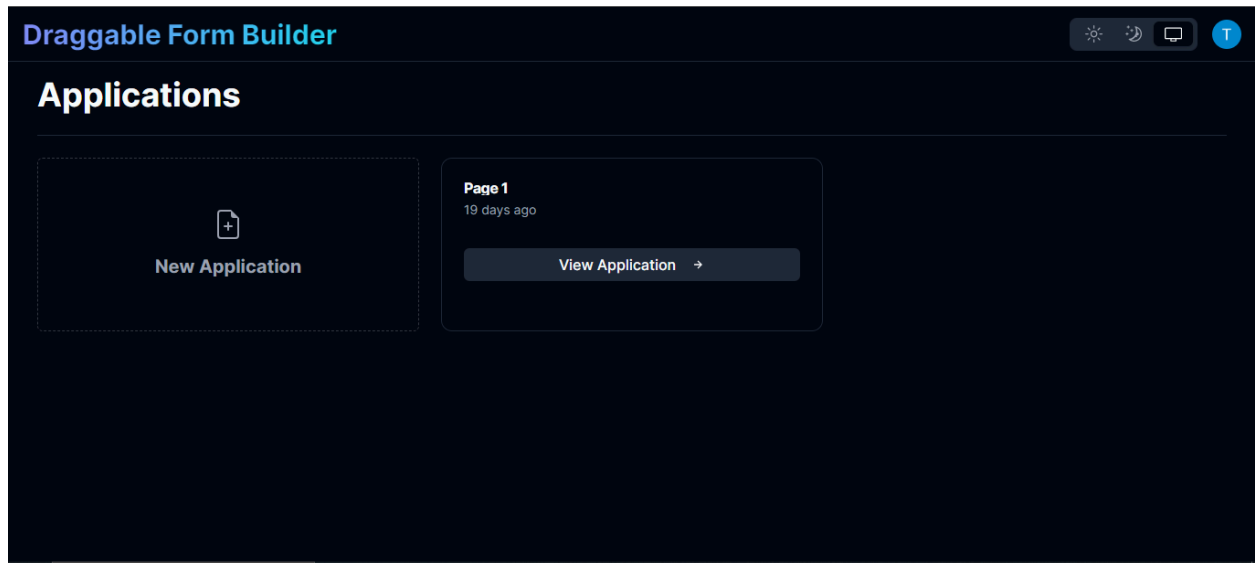
A Step by Step Guide to create a Application

Step 1 : Login/SignUp



Login is made using Clerk for now so no backend there yet.

Step 2 : Dashboard and Application



When an application is created I will save User and relevant info such as given info.

The screenshot shows a PostgreSQL database interface with the 'FormsinPages' table selected. The table contains 7 rows of data. The left sidebar shows the database structure with 'Page' selected. The bottom status bar indicates '1-7 of 7 rows'.

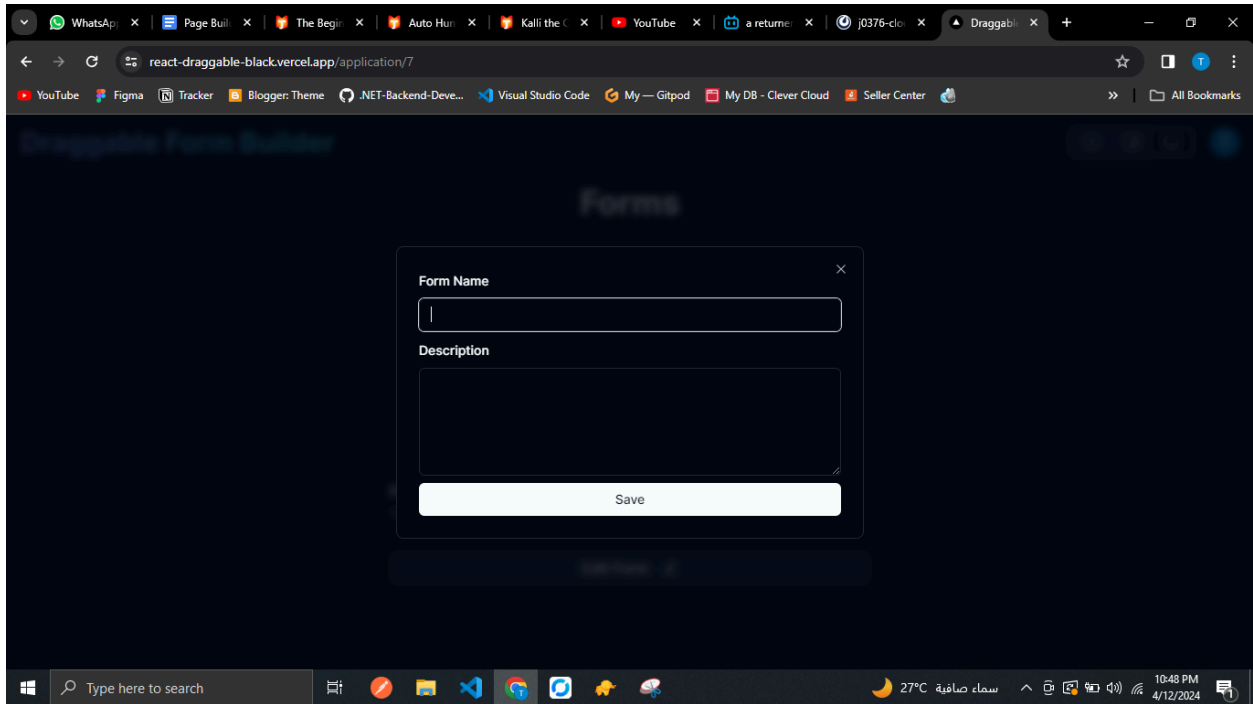
id	userId	createdAt	name
1	user_2dhIf4pe9fEpmatIAoCq5RcPwk1	2024-03-15 20:39:54.318	Form 1 of Page 1
2	user_2dhIf4pe9fEpmatIAoCq5RcPwk1	2024-03-15 21:20:48.533	Page 2
3	user_2dhIf4pe9fEpmatIAoCq5RcPwk1	2024-03-16 11:26:18.372	Page 3
4	user_2dhIf4pe9fEpmatIAoCq5RcPwk1	2024-03-17 18:36:52.815	Page 4
5	user_2dHBCnbKhtIYg8cdmq9B0SHWKKU	2024-03-18 15:44:41.541	Application 1
6	user_2dHBCnbKhtIYg8cdmq9B0SHWKKU	2024-03-18 16:51:27.145	Loan Application
7	user_2dF3L6qqudHG88LrhTOiuhJgZNh	2024-03-24 13:36:04.581	Page 1

The screenshot shows a dark-themed application window titled "Draggable Form Builder". On the left, there is a sidebar with the word "Applications" and a "New Application" button. The main area displays a "Create form" modal dialog. The dialog has a title bar with a close button (X). Below the title, it says "Create a new form to start collecting responses". There are three input fields: "Application Name", "Form Name", and "Description". The "Description" field is a larger text area. At the bottom of the dialog is a "Save" button.

Step 3 : Form Creation

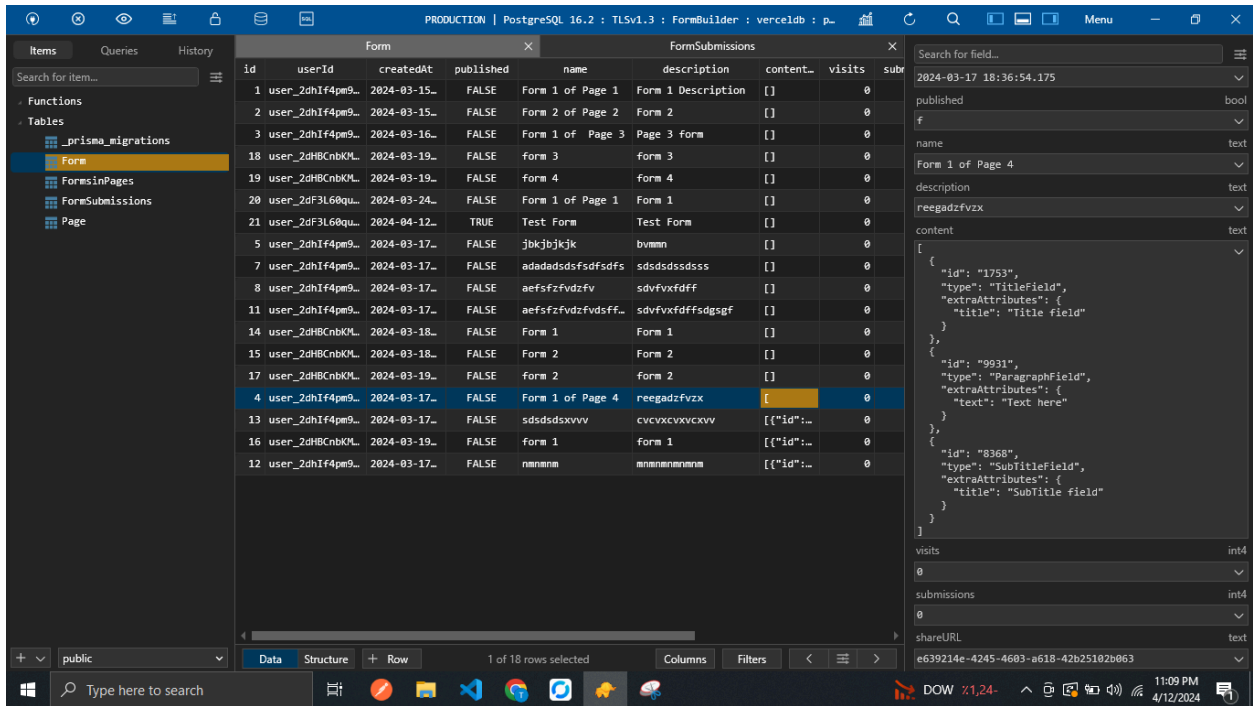
The screenshot shows the "Forms" section of the "Draggable Form Builder" application. The title "Forms" is centered at the top. Below it, there is a "New Form" button with a plus icon. To the right of the "New Form" button is an "Update Sequence" button. Below these buttons, there is a card for "Form 1 of Page 1", which was created "19 days ago". At the bottom of this card is an "Edit Form" button with a pencil icon.

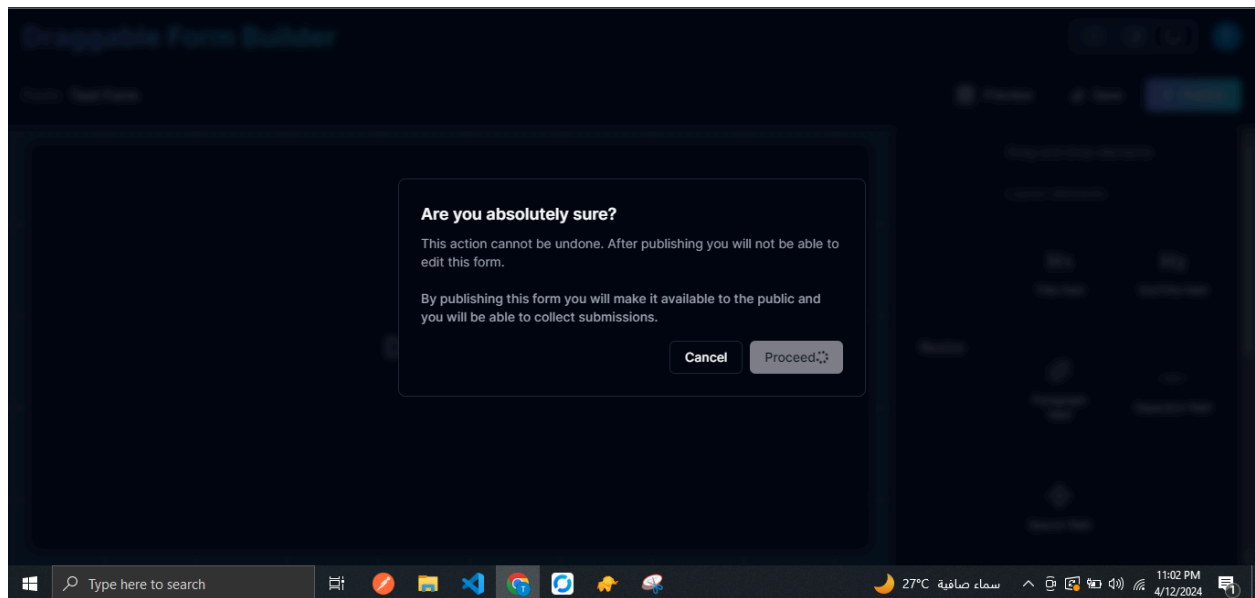
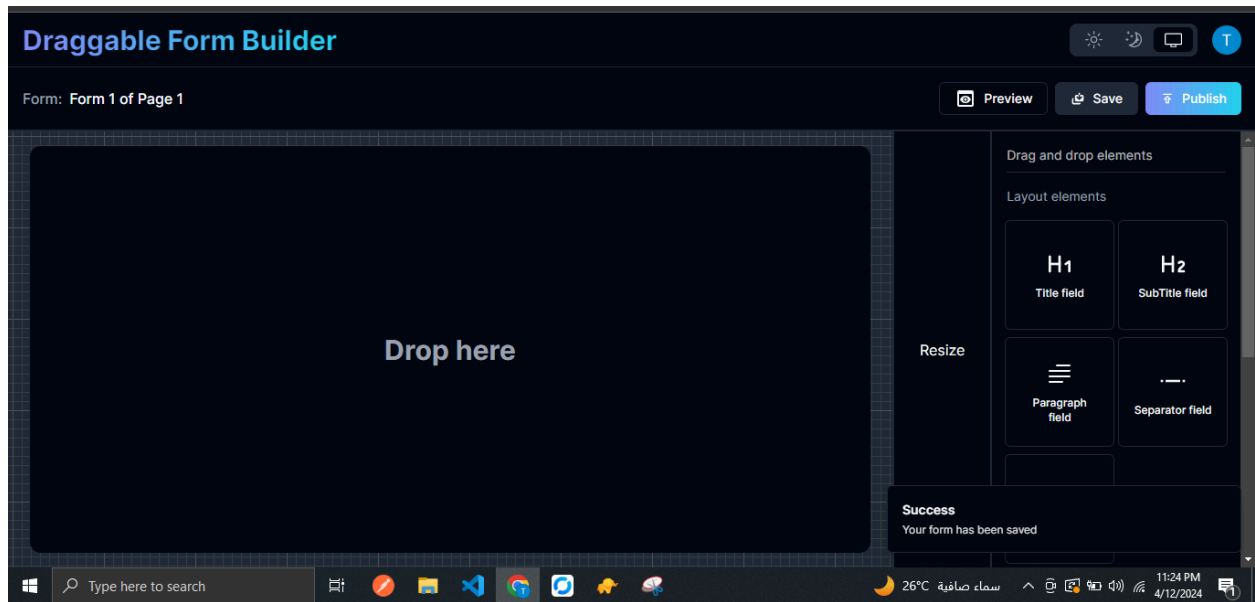
When an application is created it will have many forms in it. When a new Form is created I will add the relevant data into database as follows:



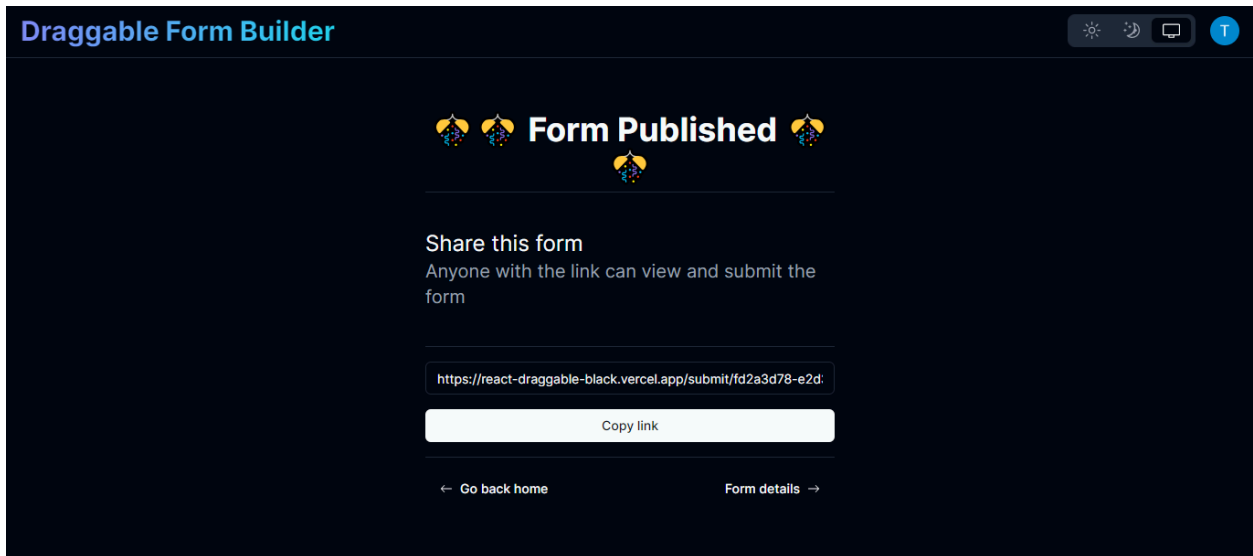
After the form is created it has to be saved and submitted as follow:

When it is saved relevant data of fields like input, text is added as content property I have added it as a Json converted to Text





And shareable url is created for the customer to be used



Since every form has one Share Url so this property was added in Form Table