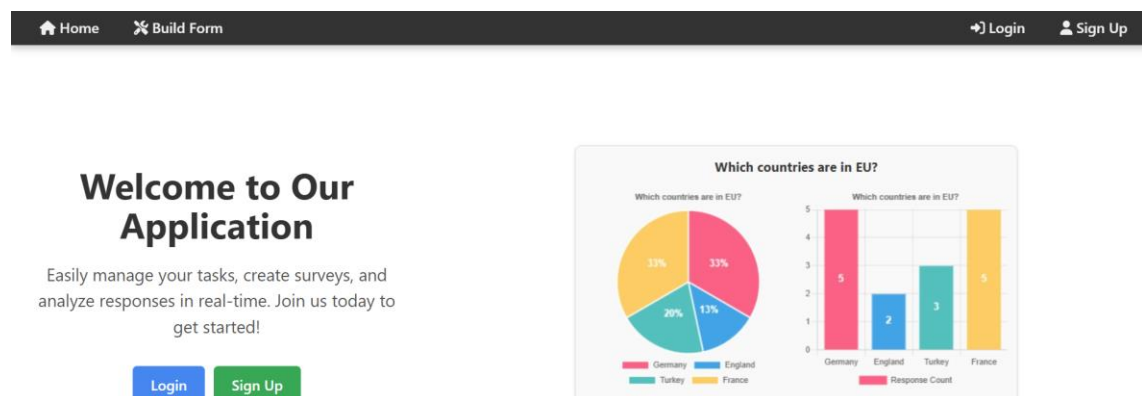


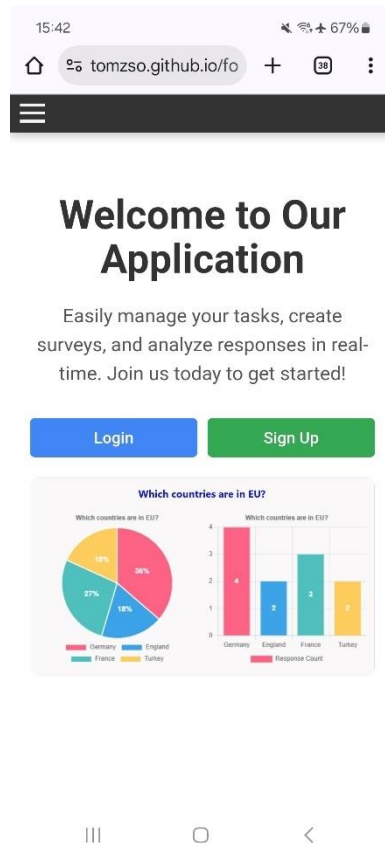
## 5. Application Presentation

**Web Application URL:** <https://tomzso.github.io/form/>

Below, I will present the completed application on both mobile and desktop screens. On both devices, the page is displayed using the Google Chrome browser. Upon opening the page, we are greeted by the Home page, which features a navigation bar at the top. Using the navigation bar, we can access the following pages: Home, Build Form, Login, and Sign Up.



### 4.. Home page on desktop interface





## 5. Home page on mobile interface


If we don't yet have a user account, we need to create one on the Sign Up page. To do this, we need to provide a unique username, an email address, and a password. The password must be at least 4 characters long and include a number. The email address does not have any functional significance.

On the page, the Sign Up and Login buttons are visible. These are merely page navigation buttons, and the green-colored button indicates which page the user is currently on.

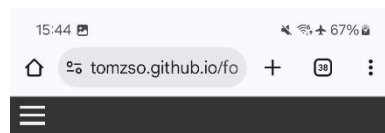
## Sign Up










### 6. Sign Up page on desktop



## Sign Up





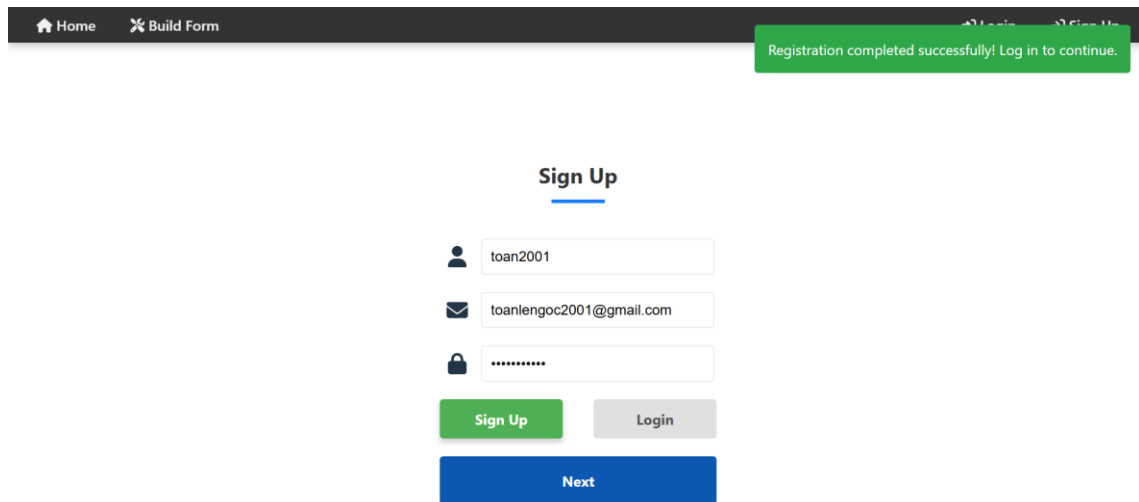




### 7. Sign Up page on mobile

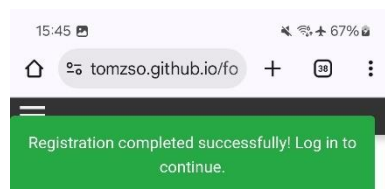
After filling out the three fields, click the blue **Next** button. Then, wait for the application's response. After a short wait, a message will appear at the top of the page. A green message indicates success, while a red message shows the reason for failure.

After the green message appears, wait 1 or 2 seconds, as the system will automatically navigate the user to the Login page.

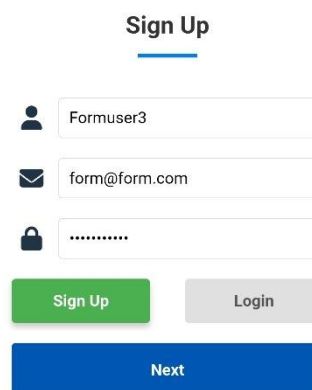


The screenshot shows a desktop web browser with a dark header bar containing links for Home, Build Form, Login, and Sign Up. A green notification box in the top right corner displays the message: "Registration completed successfully! Log in to continue." Below the header, the "Sign Up" page is visible, featuring input fields for username (toan2001), email (toanlengoc2001@gmail.com), and password (masked with dots). There are "Sign Up" and "Login" buttons, and a blue "Next" button at the bottom.

## 8. Successful registration on desktop



The screenshot shows a mobile browser interface with a status bar at the top displaying the time 15:45 and battery level at 67%. The address bar shows the URL tomzso.github.io/fo. A green notification box at the top of the page displays the message: "Registration completed successfully! Log in to continue."



The screenshot shows the mobile "Sign Up" page. It includes input fields for username (Formuser3), email (form@form.com), and password (masked with dots). There are "Sign Up" and "Login" buttons, and a blue "Next" button at the bottom.

## 9. Successful registration on mobile

If we attempt to register again with the same details, we receive an error.

The screenshot shows a web application interface with a dark header bar containing links for 'Home', 'Build Form', 'Login', and 'Sign Up'. A red error message is displayed at the top: 'The username is not available or ensure that the password is at least 4 characters long and contains a digit.' Below the header, the 'Sign Up' form is visible. It includes three input fields: a username field with 'toan2001', an email field with 'toanlengoc2001@gmail.com', and a password field with masked characters. There are two buttons: a green 'Sign Up' button and a grey 'Login' button. At the bottom of the form is a blue 'Next' button.

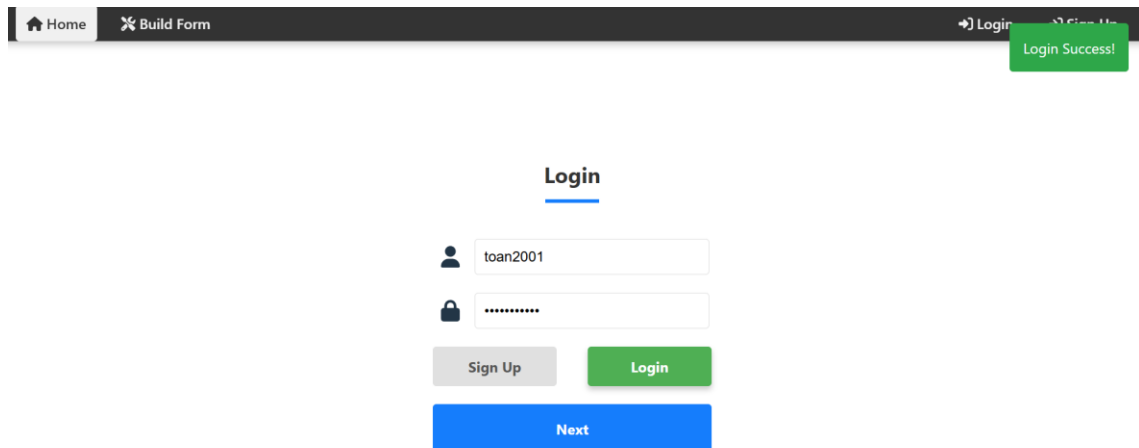
## 10. Failed registration on desktop

This screenshot shows the same web application interface as above, but viewed on a mobile browser. The address bar shows the URL 'tomzso.github.io/fo'. The red error message is visible at the top of the page. The 'Sign Up' form is partially visible below the error message.

This screenshot shows the 'Sign Up' form on a mobile application. The form has the same layout as the desktop version, with input fields for 'Formuser3', 'form@f.com', and a masked password. It includes a green 'Sign Up' button, a grey 'Login' button, and a blue 'Next' button. At the bottom of the screen, there are three navigation icons: a hamburger menu, a circle, and a back arrow.

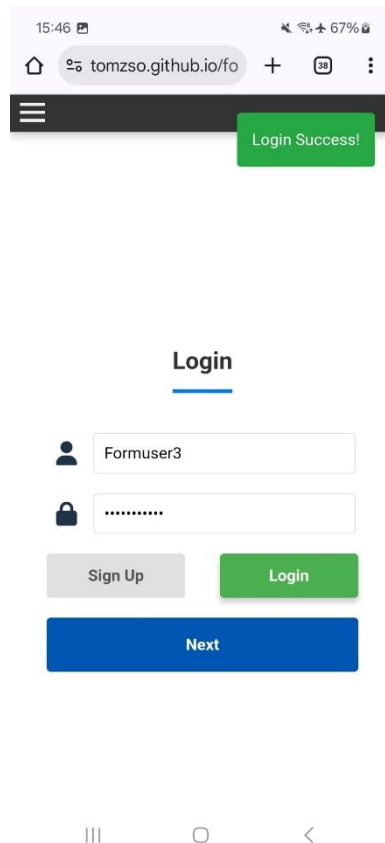
## 11. Failed registration on mobile

On the **Login** page, we re-enter our details—although, after registration, we are automatically navigated here. During this navigation, the entered data is preserved, so the username and password will already be filled in if we just registered. Therefore, it's enough to simply click the **Next** button. Wait for the green confirmation message, and within about two seconds, you'll be navigated to the logged-in Home page.



The screenshot shows a web application interface. At the top, there is a dark navigation bar with links for 'Home', 'Build Form', 'Login', and 'Sign Up'. A green notification box in the top right corner displays 'Login Success!'. The main content area is titled 'Login' with a blue underline. Below the title, there are two input fields: the first contains the username 'toan2001' and the second contains a masked password '\*\*\*\*\*'. Below these fields are two buttons: a grey 'Sign Up' button and a green 'Login' button. At the bottom of the form is a large blue button labeled 'Next'.

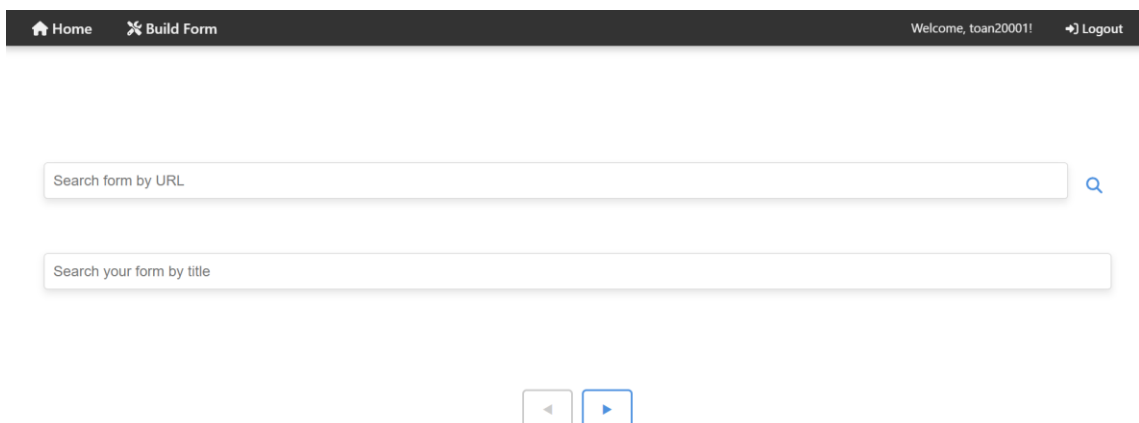
## 12. Successful login on desktop



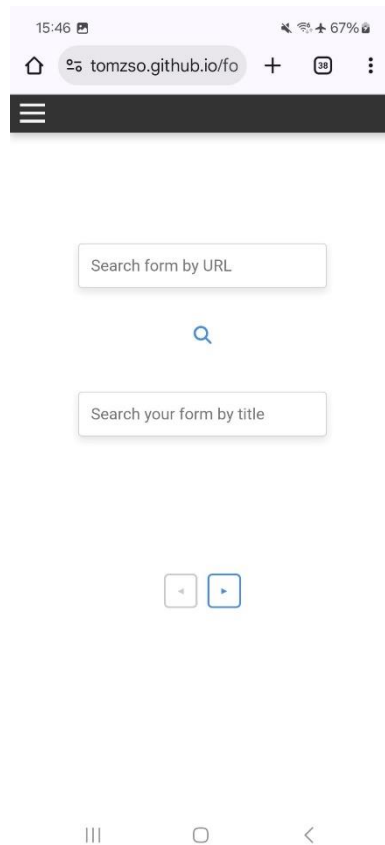
### 13. Successful login on mobile

After logging in, we are greeted by the logged-in user's Home page. Here, it's possible to search for existing forms using the first input field, and we can also search for our own previously created forms using the next input.

The following image shows a form that was recently created by a user:



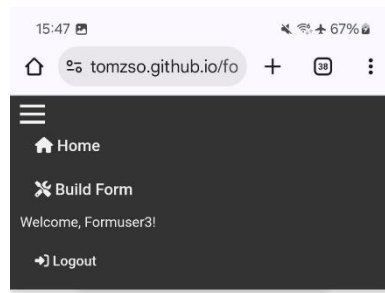
### 14. Logged-in Home page on desktop



### 15. Logged-in Home page on mobile

To create a form, click the **Build Form** button in the menu bar. On mobile, the menu bar can be accessed via the hamburger-like icon in the top-left corner.





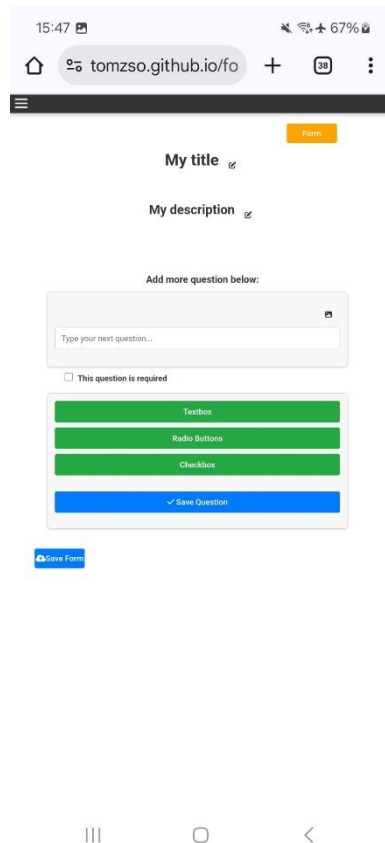
Search your form by title



## 16. Menu bar on mobile

This is what the form creation page looks like:

## 17. Form creation page on desktop



## 18. Form creation page on mobile

While creating and editing a form, it's possible to edit the form's title and description using the pencil icon. The orange **Form** button allows you to define the form type. By default, it's set to Form (survey), but it can also be set to Quiz.

Under Add more question below: you can create the specific questions. Use the Type your next question field to write the question.

The checkbox next to This question is required lets you define whether answering the question is mandatory.

With the **Textbox**, **Radio buttons**, and **Checkbox** buttons, you can set the expected answer type. The image icon lets you attach an image to the question.

**Save Question** saves the individual question, while **Save Form** saves the entire form. Providing answer options is not mandatory for forms of type Form.

For **Checkbox** and **Radio button** type questions, you can set the number of answer options using the plus and minus buttons (a minimum of 1 and a maximum of 4 options can be added).

Once a question is created, you can delete it along with its options using the trash can icon next to the title. The image below shows a form with 3 questions that I created and saved:

15:49 67%

General questions

What is the capital city of England?

☐ Berlin

☐ London

☐ Paris

Which countries are in EU?

☒ Germany

☒ England

☒ France

☐ Turkey

Add more question below:

Type your next question...

☐ This question is required

Taxibox

Radio Buttons

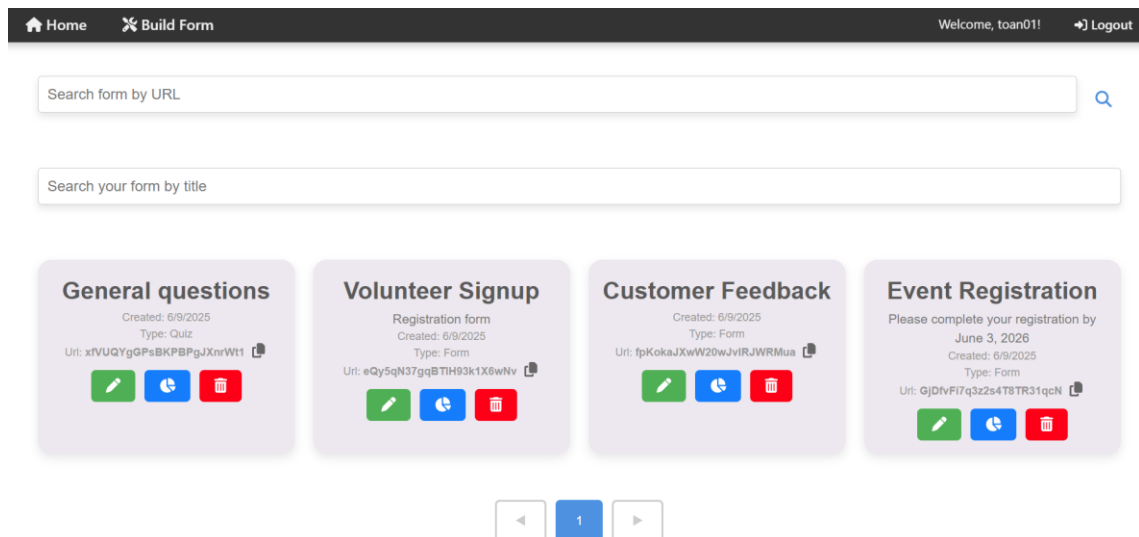
Checkbox

Save Question

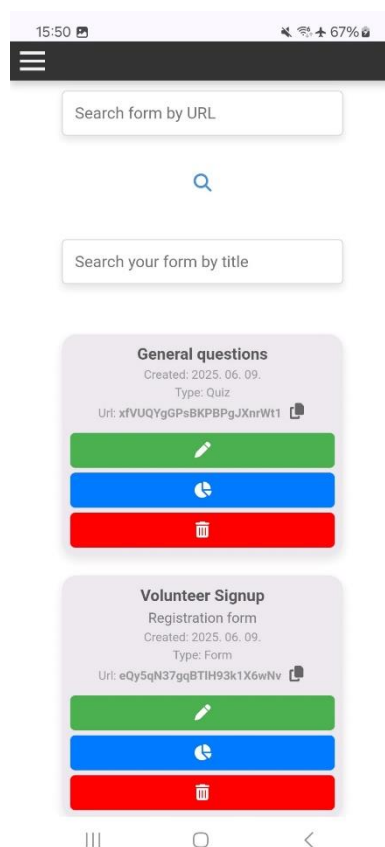
Save Form

### 19. Form with 3 questions created on mobile

Returning to the home page, we can already see the details of the previously created form. The most important piece of information is the URL code, which other users can use to access the form. Clicking the pencil icon allows you to edit the form. Clicking the blue pie chart icon displays the form's response statistics. The red trash can icon deletes the entire form.



## 20. Created form visible on the Home page (desktop)



## 21. Created form visible on the Home page (mobile)

The created form can only be filled out once by any user, including its creator. The form can be accessed via its URL on the Home page.

For Textbox-type questions, responses must be typed in as text, while for Radio and Checkbox types, users simply select the appropriate option.

Home Build Form Welcome, toan2001! Logout

1. What is the capital city of England? \*

☐ Berlin

☒ London

☐ Paris

This question is required to answer.

2. Which countries are in EU?

☐ Germany

☒ England

☒ France

☐ Turkey

Back Next

Submit

## 22 Filling out the form on desktop

16:06 69%

tomzso.github.io/fo

General questions

Form Description

1. What is the capital city of England? \*

☒ Berlin

☐ London

☐ Paris

This question is required to answer.

2. Which countries are in EU?

☒ Germany

☒ England

☒ France

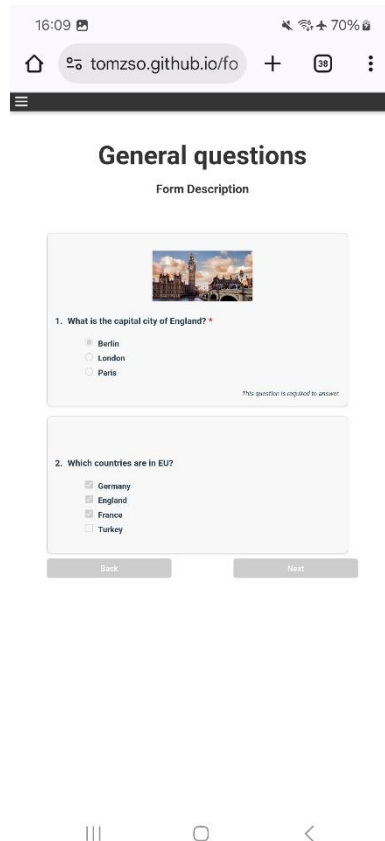
☐ Turkey

Back Next

Submit

## 23 Filling out the form on mobile

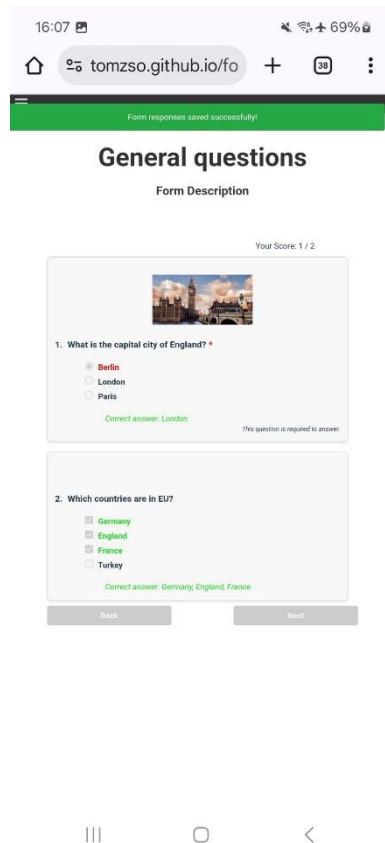
After filling out the form, click the **Submit** button to save the responses. After submission, the form can no longer be filled out again. The buttons and input fields will become non-responsive, and the system indicates this with a light grey color.



The screenshot shows a mobile web browser interface. At the top, the status bar displays the time 16:09, signal strength, Wi-Fi, and 70% battery. The address bar shows the URL 'tomzso.github.io/fo'. Below the address bar is a hamburger menu icon. The main content area is titled 'General questions' with a subtitle 'Form Description'. It contains two quiz questions. Question 1 is 'What is the capital city of England?' with a red asterisk indicating it is required. It has three radio button options: Berlin, London, and Paris. A small note below the options says 'This question is required to answer'. Question 2 is 'Which countries are in EU?' with four checkbox options: Germany, England, France, and Turkey. At the bottom of the form are two buttons: 'Back' and 'Next'. The bottom of the screen shows a mobile navigation bar with three icons: a list icon, a square icon, and a back arrow icon.

## 24 Display of a completed plain form on mobile

For **Quiz**-type forms, the program immediately evaluates the answers and shows the correct solutions.



## 255 Display of a completed quiz-type form on mobile

If we try to submit the form without answering all required questions, the system will notify us and prevent the submission. Thus, the form can only be submitted if all required fields are answered.

16:11 tomzso.github.io/fo

Please fill out all required fields before submitting.

## Superheroes questions

Test your knowledge

1. Who is he? \*

This field is required. This question is required to answer.

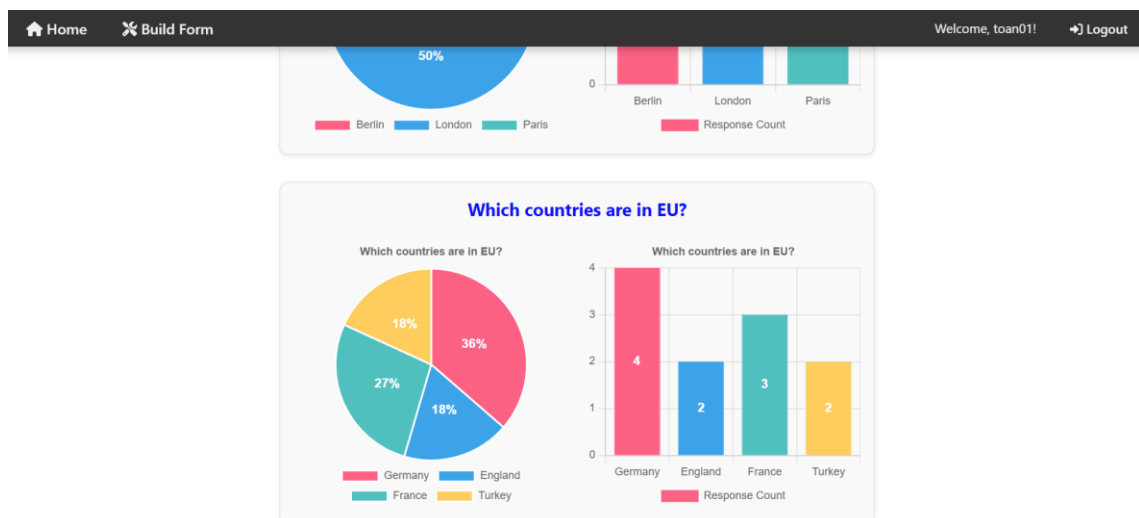
2. Who is he?

☒ Batman  
☐ Catwoman  
☐ Captain America  
☐ Iron Man

Back Next Submit

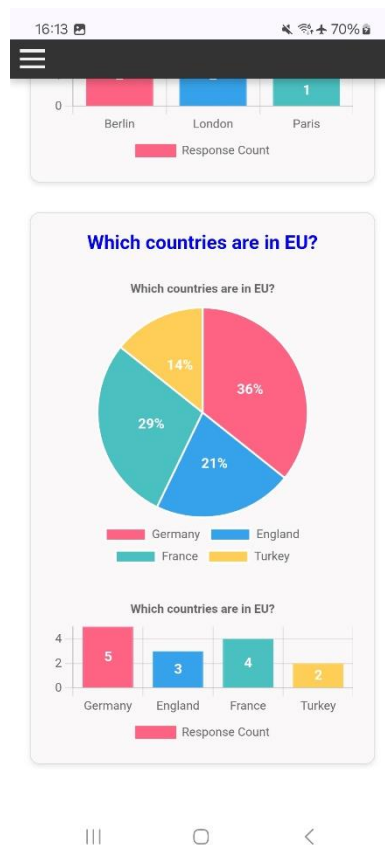
## 26 Feedback when a required question is skipped

Next, I created several new users and submitted the form with different responses from each. Then, I logged into the account of the form creator and viewed the response statistics.



## 27 Form response statistics on desktop





**28 Form response statistics on mobile**