

NEXT.js

Server Actions

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Rendering Strategies

Server Actions

- Server Actions allow us to create functions that run on the server and can be called directly **without needing to create an in-between API layer**
 - They can often be a simpler alternative to API routes for data mutations
 - reduced client-side JavaScript
- Server Actions are not fully-stable yet, so you must opt-in via the **next.config.js** file

```
const nextConfig = {  
  experimental: {  
    serverActions: true,  
  },  
};
```

Server Actions

- Create a Server Action by defining an asynchronous function with the **"use server"** directive at the top of the function body

```
async function myAction() {  
  "use server";  
  ...  
}
```

- You can invoke Server Actions using the following methods:
 - Using form action to allows invoking a server action on a `<form>` element
 - Passing the form action to a client-side component to directly invoke it

Handle Form Submission

- After handling the form submission, you can re-render the UI to ensure the correct data is displayed on the client after mutation
 - **revalidatePath** allows re-rendering the current page
 - **redirect** allows redirecting to another page

Calling Server Action function from a client-side component

- Server action function can be passed and called from a client component

```
<LikeButton  
  catId={cat.id}  
  likesCount={cat.likes}  
  onLikeCat={likeCat}  
/>
```

```
"use client";  
  
export default function LikeButton({ catId, likesCount, onLikeCat }) {  
  return (  
    <button  
      onClick={async () => {  
        await onLikeCat(catId);  
      }}  
    >  
      Like 👍 (count: {likesCount} )  
    </button>  
  );  
}
```