NEXT.Js

Server Actions &

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 rerender 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}
/>
```

Resources

Server Actions

 https://nextjs.org/docs/app/building-yourapplication/data-fetching/server-actions