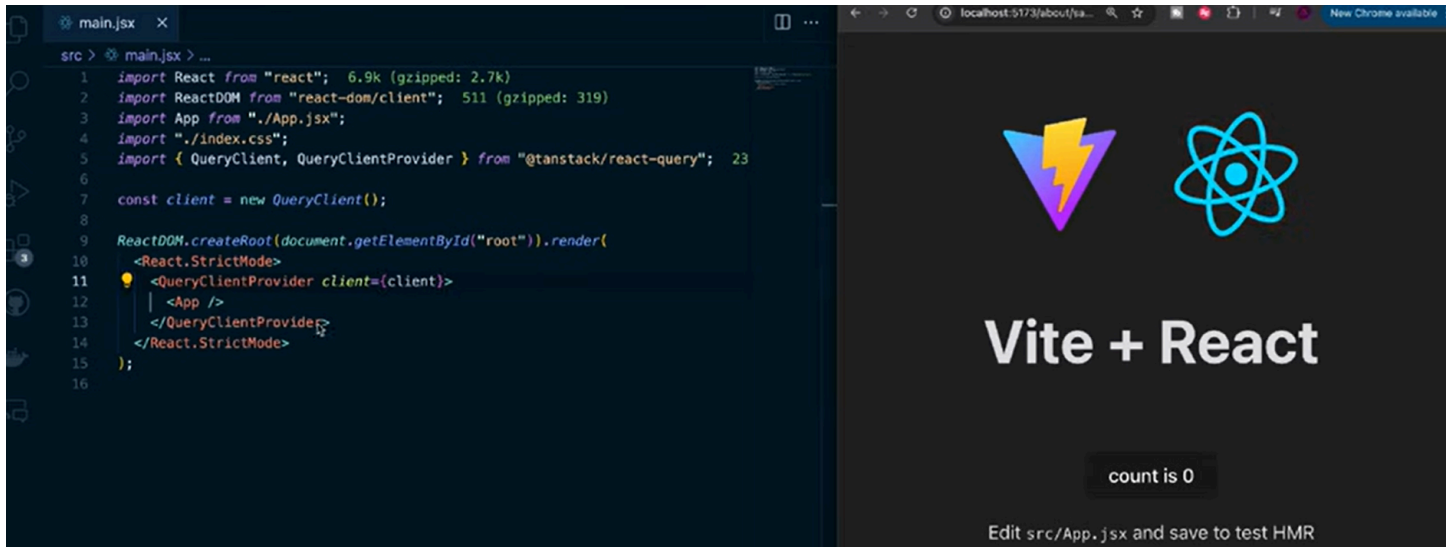
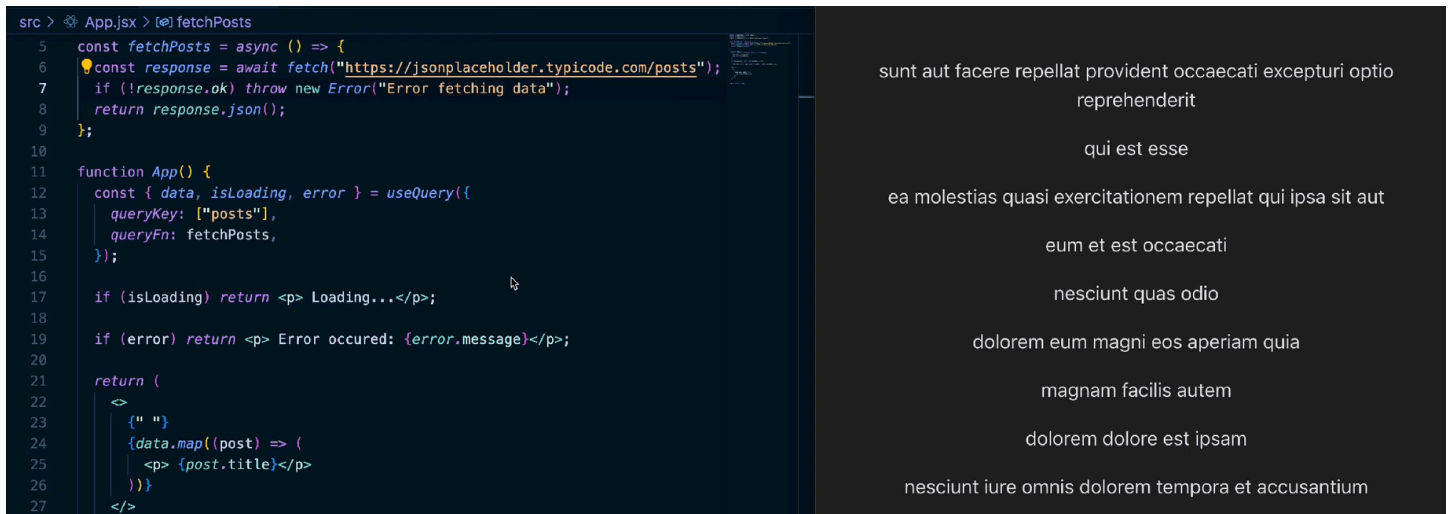


Step 1 for TanStack



Fetch Data



Keep fetching data after a certain time period (In this example, data is fetched every 5 seconds (5000ms))

```
src > components > Posts.jsx > Posts
1  import { useQuery } from "@tanstack/react-query"; 13.5k (gzipped: 4.7k)
2
3  const fetchPosts = async () => {
4    const response = await fetch("https://jsonplaceholder.typicode.com/posts");
5    if (!response.ok) throw new Error("Error fetching data");
6    return response.json();
7  };
8
9  export const Posts = () => {
10    const { data, isLoading, error } = useQuery({
11      queryKey: ["posts"],
12      queryFn: fetchPosts,
13      staleTime: 5000,
14    });
15
16    if (isLoading) return <p> Loading...</p>;
17
18    if (error) return <p> Error occurred: {error.message}</p>;
19
20    return (
21      <>
22        {data.map((post) => (
23          <p> {post.title}</p>
24        ))}
25      </>
26    );
27  };
28
29
```

Fetch data using ID

```
src > components > PostsById.jsx > PostById
1  import { useQuery } from "@tanstack/react-query"; 13.5k (gzipped: 4.7k)
2
3  const fetchPosts = async (id) => {
4    const response = await fetch(
5      `https://jsonplaceholder.typicode.com/posts/${id}`
6    );
7    if (!response.ok) throw new Error("Error fetching data");
8    return response.json();
9  };
10
11  export const PostById = ({ id }) => {
12    const { data, isLoading, error } = useQuery({
13      queryKey: ["posts", id],
14      queryFn: () => fetchPosts(id),
15      staleTime: 10000,
16    });
17
18    if (isLoading) return <p> Loading...</p>;
19
20    if (error) return <p> Error occurred: {error.message}</p>;
21
22    return <> {data.title}</>;
23  };
24
```

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Posting data

```
src > components > CreatePost.jsx > CreatePost
1  import { useMutation } from "@tanstack/react-query"; 4.5k (gzipped: 2k)
2  import { useState } from "react"; 4.2k (gzipped: 1.8k)
3
4  const createPost = async (newPost) => {
5    const response = await fetch("https://jsonplaceholder.typicode.com/posts",
6      method: "POST",
7      headers: { "Content-Type": "application/json" },
8      body: JSON.stringify(newPost),
9    });
10
11    return response.json();
12  };
13
14  export const CreatePost = () => {
15    const [title, setTitle] = useState("");
16
17    const { mutate } = useMutation({ mutationFn: createPost });
18
19    const handleSubmit = (e) => {
20      e.preventDefault();
21      mutate({ title, body: "This is a new post" });
22    };

```

New Post

Create

Implementing optimistic updates

```
src > components > CreatePost.jsx > CreatePost
14  export const CreatePost = () => {
15
16    const queryClient = useQueryClient();
17
18    const { mutate } = useMutation({
19      mutationFn: createPost,
20      onSuccess: () => {
21        queryClient.invalidateQueries(["posts"]);
22      },
23      onMutate: async (newPost) => {
24        await queryClient.cancelQueries(["posts"]);
25        const previousPosts = queryClient.getQueryData(["posts"]);
26        queryClient.setQueryData(["posts"], (old) => [
27          ...old,
28          { id: Date.now(), ...newPost },
29        ]);
30
31        return { previousPosts };
32      },
33    });
34
35    const handleSubmit = (e) => {
36      e.preventDefault();
37      mutate({ title, body: "This is a new post" });
38    };

```

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Referring to other queries

```
App.jsx CreatePost.jsx x
src > components > CreatePost.jsx > [e] CreatePost
4  const createPost = async (newPost) => {
5    const response = await fetch("https://jsonplaceholder.typicode.com/
7      headers: { "Content-Type": "application/json" },
8      body: JSON.stringify(newPost),
9    });
10
11    return response.json();
12  };
13
14  export const CreatePost = () => {
15    const [title, setTitle] = useState("");
16
17    const queryClient = useQueryClient();
18
19    const { mutate } = useMutation({
20      mutationFn: createPost,
21      onSuccess: () => {
22        queryClient.invalidateQueries(["posts"]);
23      },
24    });
25
26    const handleSubmit = (e) => {
27      e.preventDefault();
28      mutate({ title, body: "This is a new post" });
29    };
30  };
```

localhost:5173

Create

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