**Rakamin Academy | Mini Project**

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**What is React**

React is a JavaScript UI library that is used to render components at the application’s view layer (frontend). When we first create a React application using *create react app*, there will be a single html file in the public folder named *index.html* that contains a *div* with an id of root where the react application will render it’s component into that element.

React has many features such as Components and Props where we can create components for certain User Interfaces and Props that we can use to pass data to other components. In React, we can import a variety of packages that we can use to extend the functionality of our application.

**How Data Flows in HTTP Request**

Simply put, there are two entities that are involved in the flow of HTTP Request/Response, they are the *client* and the *server*. Client is the part where users see, which is the frontend, and the *server*, which is the backend. Client can request a data to the server and when the request is completed, the server will send a response back to the client so the client can render the data for the user to interact with.

**Flow**

1. Client request data through a URL (which is the server that the client want to interact with)
2. Server receives the client’s request
3. Server sends a response back to the client according to what the client had requested.

In How Data Flows in HTTP Request, there is a term called API (Application Programming Interface), which is a mechanism that enable client and server to communicate with each other. Currently, API architecture that is mostly used is REST (Representation State Transfer) API which defines various method that we usually use in a HTTP Request, such as GET, POST, PUT, DELETE, that are mainly used as CRUD functionality in an application.

**Mini Project**

In this mini project, I create a simple React application following a course (<https://www.udemy.com/course/build-your-first-react-js-application/>) that contains several main concept to create a React application, starting from using React hooks (useState, useEffect), routing in React application, and how to fetch data from public APIs.

The following are links to the mini project

- Github: <https://github.com/jasonk19/rakamin-mini-project.git>

- Deployment: <https://rakamin-mini-project-rosy.vercel.app/>