



Introduction to ReactJS

A Student-Run Short Course (SRC) conducted by the Student Academic Council in collaboration with the Technical Council.

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Logistics

- ❑ 16th Oct to 4th Nov, 10 PM to 11 PM. AB 1/101, Learning Theatre.
- ❑ All important updates will be communicated through Google Classroom.
- ❑ All codes will be uploaded to the GitHub repository. Link: <https://github.com/Reuben27/ReactJS-SRC>
- ❑ Part I: <https://github.com/Reuben27/Web-Development-SRC>
- ❑ P/F course. Attendance compulsory.





API (Application Programming Interface)

- It is a medium that allows different applications to communicate programmatically with one another and return a response in real time.
- Roy Fielding defined REST(REpresentational State Transfer) in 2000 as an architectural style and methodology commonly used in the development of internet services, such as distributed hypermedia systems.
- When a request is made via a REST API, it sends a representation of the resource's current state to the requester or endpoint.
- This state representation can take the form of JSON (JavaScript Object Notation), XML, or HTML.



Hooks to Use APIs in React

- `UseEffect` - To perform side effects on function change
- `UseState` - Use to manage Local State



Fetching APIs using 'Fetch'

- 'fetch' is a inbuilt method in JS used to retrieve information from server or APIs.
- It takes the URL of API to retrieve and returns a 'Promise'.
- Promise can be handled by 'then' and 'catch'.
- Use state variable to show the results.



JSON Server

- Simple lightweight way that simulates RESTful API using JSON object.

```
'npm i json-server'
```

- Used by Frontend developers to create mock API for development.
- Supports GET, POST, PUT, and DELETE and you can perform CRUD operations.

```
'json-server --watch db.json --port 8000'
```



Thank you!