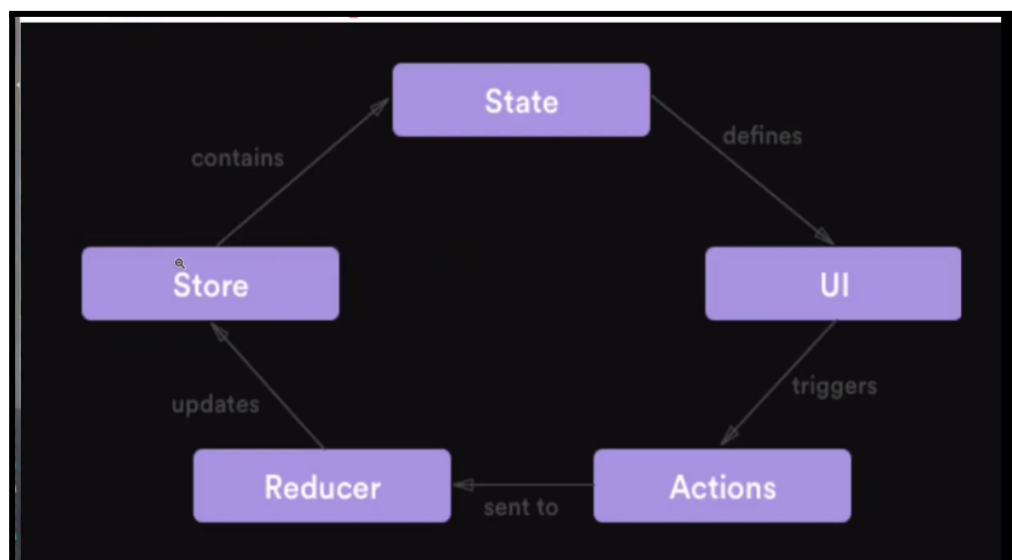# Master MERN(React-3)

React Fundamentals

- REDUX
- REDUX TOOLKIT
- API
- Make your React Website Live

- How do you handle data in the react ?
  - ➔ A data from any external source or API can be easily fetched using -
    - ➢ Fetch API (Traditional Way)
    - ➢ Axios Library
    - ➢ Using Async/Await Syntax
    - ➢ Using custom react Hook (useFetch())
    - ➢ React Query Library
      - ★ Detailed information - https://www.freecodecamp.org/news/fetch-data-react/
- What is Redux in React ?
  - ➔ https://blog.logrocket.com/understanding-redux-tutorial-examples/
  - ➔ Redux elements - reducers, actions, state, component,store
  - ➔ Reducers - Simple JS functions. Called when action is taken
  - ➔ Action - plain js objects wrapped inside a function. Two parameters it takes action-type, payload(lots of information)
  - ➔ Flow chart below and baki details above link mei hai.

- Explain everything about API?
  - ➔ It's so much to write about explaining an API. All you have to do is just go to the link below and learn everything.
    https://www.freecodecamp.org/news/how-to-consume-rest-apis-in-react/

- ➔ Key Highlights of API
    - ➢ JSON DATA
    - ➢ API METHODS - POST(sending request), GET (getting response), PUT(updating), PATCH(updating as a whole)
    - ➢ API Parts - header, body, endpoint
    - ➢ API Testing tool - POSTMAN (famous one)

- How do you make your REACT Website Live ?
    - ➔ There are many options available to make our website live , they are -
        - ➢ Digital Ocean
        - ➢ Heroku
        - ➢ AWS Cloud Hosting etc.
        - ➢ Detailed explanation for "Digital Ocean" - https://www.freecodecamp.org/news/i-built-this-now-what-how-to-deploy-a-react-app-on-a-digitalocean-droplet-662de0fe3f48
        - ➢