Working of API

Request–Response Cycle

1. Request Initiation

- The process begins when a client (like a web browser, mobile app, etc.) initiates a request to the API

- This request is usually made using HTTP methods such as GET, POST, PUT, or DELETE

2. API Endpoint

- The request is sent to a specific URL known as an API endpoint

- This endpoint is like a door that the API has opened for requests

3. Request Processing

- The server receives the request and processes it

- This involves verifying the request parameters, checking authentication, and accessing databases, etc.

4. Response Generation

- After processing the request, the server generates a response

- This response typically includes the requested data or a confirmation of the action performed

5. Response Delivery

- The response is sent back to the client

- The client receives the response and uses the data to perform the desired action or display information to the user