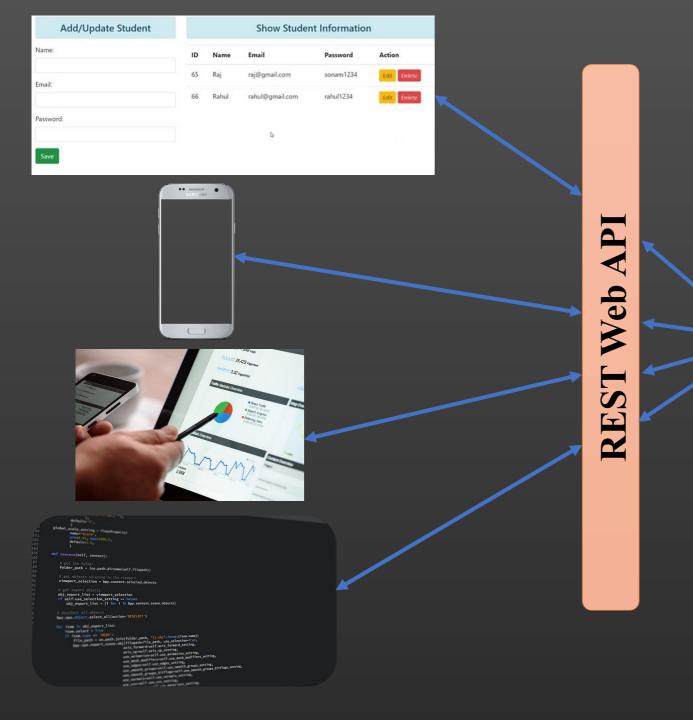
REST

It is an architectural guideline to develop Web API.

REST API

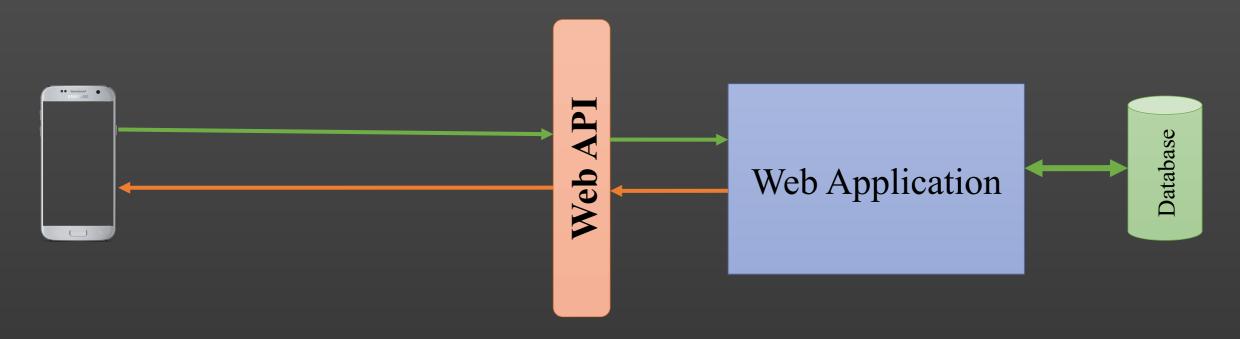
The API which is developed using REST is known as REST API / RESTful API.



Web Application

Database

How REST Web API Works



- Client makes HTTP Request to API
- API will communicate to Web Application/Database (If needed)
- Web Application/Database provides required data to API
- API returns Response Data to Client

Note – Json Data, XML Data

REST API

CRUD Operations:-

Operation	HTTP Methods	Description
Create	POST	Creating/Posting/Inserting Data
Read	GET	Reading/Getting/Retrieving Data
Update	PUT, PATCH	Updating Data Complete Update - PUT Partial Update - PATCH
Delete	DELETE	Deleting Data

Students API Resource

http://geekyshows.com/api/students

1 2 3

- 1. Base URL
- 2. Naming Convention
- 3. Resource of API or End-Point

Request for All Students

Request

GET: /api/students

• Request for One Student having id = 1

Request

GET: /api/students/1

Response

Request Posting/Creating/Inserting Data

Request

POST: api/students

{"name": "Sumit"}

Response

{"id":11, "name": "Sumit"}

• Request for Updating Data, id = 1

Request

PUT or PATCH: /api/students/1

{"name": "Raj" }

Response

• Request for Deleting Data, id = 1

Request

DELETE: /api/students/1

Response

{"id":1, "name": "Raj" }

RESTful API

http://geekyshows.com/api/students

GET /api/students

GET /api/students/1

POST /api/students

PUT /api/students/1

PATCH /api/students/1

DELETE /api/students/1