To download Postman tool

<https://www.postman.com/downloads/>

WebService(BackEnd application)

1. Any program which connects to database and return data in JSON format is called as webservice, It is also called as B2B (business to business)communication
2. In RESTFUL WebService data can be return in json, xml, text format, and it uses http protocol
3. Full form of REST webservice is Representational State transfer
4. It uses 4 mehods

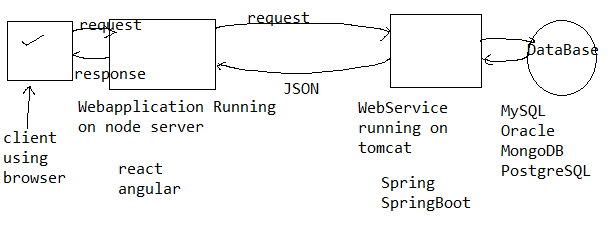
|  |  |
| --- | --- |
| GET | Read data |
| POST | Create data(add data) |
| PUT / PATCH | Update data |
| DELETE | Delete data |

1. Always use nouns in url
2. In Older days webservices were using SOAP(Simple Object Access Protocol) protocol

These WebServices always return data in XML format by using SOAP envelop

Frontend application

1. It is a application which reads data from webservice or database. And converts it in html or user understandable format, also called as B2C(business to client) communication
2. Usually build by using technologies like react, angular, Spring, Python,.net



Spring validation

@NotNull – to check field should not be null

@NotEmpty--- to check the field is not empty

@NotBlank ---- to check that string field should bot be blank, it must have at least one character

@Min and @Max ---- to check the range of values

@Pattern --- to check the value satisfies the given pattern

@Email---- to check whether email has @ symbol

It generates a validator object and throws ValidationViolationException which spring boot converts into bad request

Junit and MockieTo

@Test--- this will execute method when you will run the test code

@Before ----- It will get executed before every @Test method

@After----- It will get executed after every @Test method

@Mock --- it create a dummy object

@InjectMocks—it creates a dummy object and also inject all dependencies