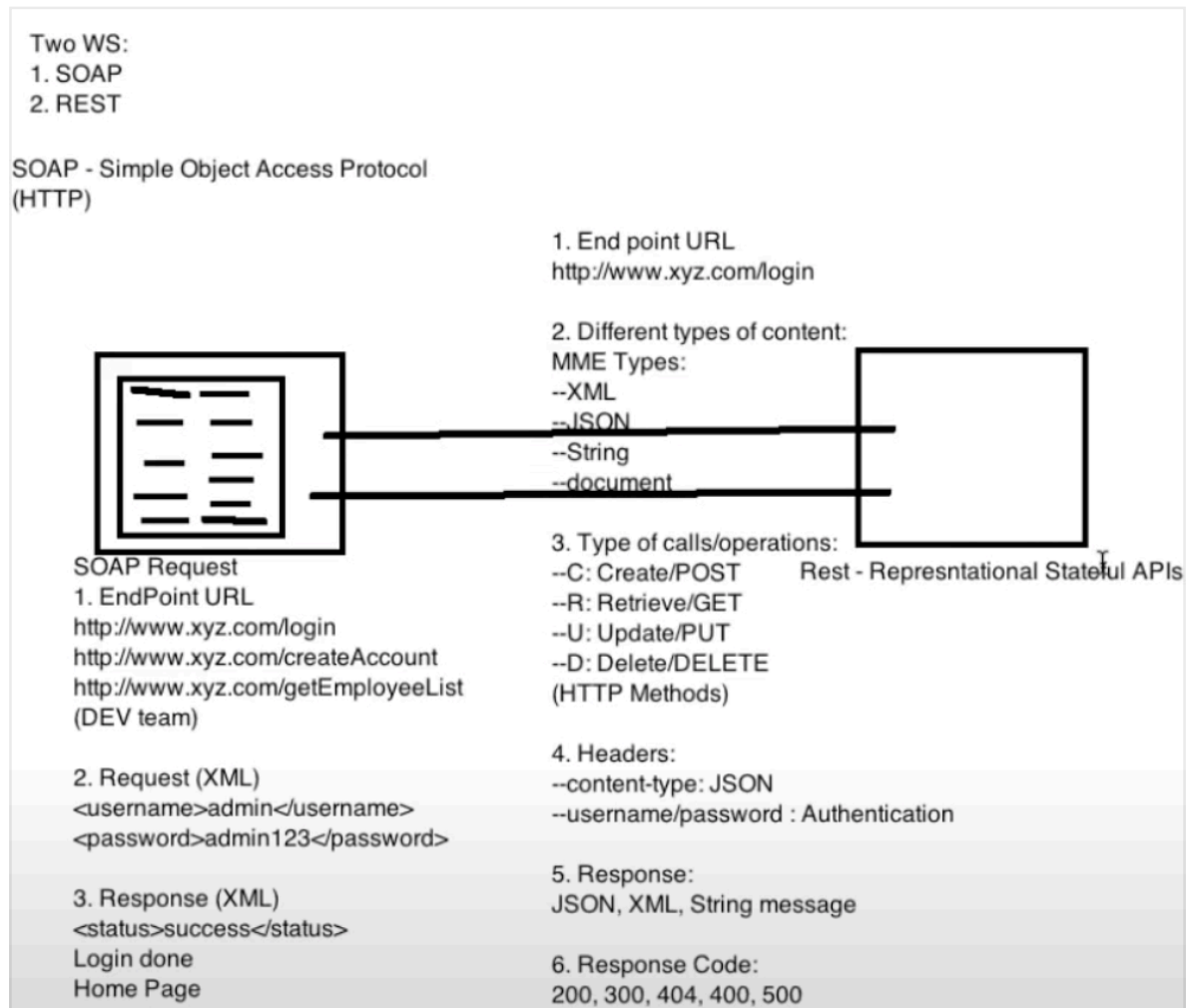


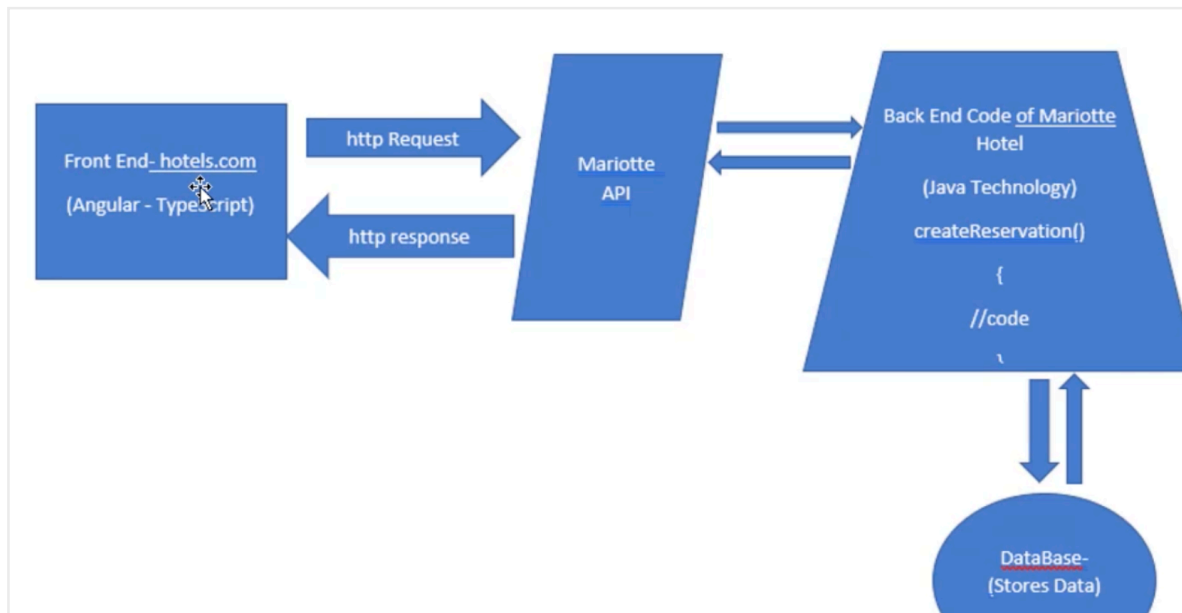
WebServices: • It is a collection of standards or protocols for exchanging information between two devices or application.



API:

End Point Request URL: Base URL/resource/(Query/Path)Parameters

- Why we need: If front end develop using typescript and backend(coding part) using java, so we need some tool with which both can communicate. So api takes request and gives response in a json/xml format which both party(client-server) understands



GET: No Payload/Body required

How to send input data in GET?

Ans: Using Query Parameters

POST: How to send input data in POST?

Ans: Using Form Parameters /Body Payload

we add assertion on Headers in response body, particularly on server and its value. To validate the response is coming from right server and its not hacked

API Automation:

1. To use GET Method:

1. given(), header are not required neither body, only query param required
2. when(), will pass get along with resource
3. then(), assertThat(), body etc

Example:

```

*****POST*****
*****
*****
  
```

```
RestAssured.baseURI = "https://rahulshettyacademy.com";
```

```
String addPlaceResponse =
    given().queryParams("key",
"qaclick123").header("Content-Type", "application/
json").body(addPlaceBody.addPlaceAddressBody())
    .when().post("maps/api/place/add/json")
    .then().assertThat()
    .statusCode(200).headers("Server", "Apache/2.4.18
(Ubuntu)").body("scope", equalTo("APP")).extract().response().asString();
    System.out.println("Response after adding the place: "
+addPlaceResponse);
```

```
JsonPath js = new JsonPath(addPlaceResponse);
String getPlaceID = js.getString("place_id");
```

```
*****PUT*****
*****
*****
```

```
    given()
        .queryParams("place_id", getPlaceID).queryParams("key",
"qaclick123").header("Content-Type","application/json")
        .body("{\n"
            + "\"place_id\": \""+getPlaceID+"\", \n"
            + "\"address\": \"70 winter walk, USA\", \n"
            + "\"key\": \"qaclick123\" \n"
            + "}")
    .when()
        .put("maps/api/place/update/json")
    .then()
        .assertThat().statusCode(200).body("msg",
equalTo("Address successfully updated"));
```

```
*****GET*****
*****
*****
```

```
String newAddress =
    given()
        .queryParams("key", "qaclick123").queryParams("place_id",
getPlaceID)
    .when()
        .get("maps/api/place/get/json")
```

```
        .then()
            .assertThat().statusCode(200).extract().response().asString
    );
    System.out.println("Response after updating the place: "
+newAddress);
```

```
    JsonPath js1 = new JsonPath(newAddress);
    String getnewPlace = js1.getString("address");
    System.out.println("Address after updating : " +getnewPlace);
```

```
    Assert.assertEquals(getnewPlace, "70 winter walk, USA");
```

```
*****
*****
*****
```