1. What is application state?

The application state is the user’s journey when surfing the internet. When you surf the Web, every transition from one application state to another corresponds to a link you decided to follow or a form you decided to fill out. In REST terms “which page are you on” is the Application state.

1. What is resource state?

Per Oracles Glossary, a resource state is the state of a particular resource at any given time. Sending a request to the server doesn’t change the state but when submitting a POST to the server it will change the state. Meaning if you fill out a form and click submit and it updates the page you are on it changes the resource state of the page. The state is kept on the server, but the client can manipulate it by sending the server a representation—an HTML form submission.

1. Create two simple diagrams depicting the flow of application and resource state.

GET

Null

Homepage (/)

1. GET /

GET

Homepage

Form List

(/Forms)

2 fields

2. GET /form list

Form List

POST

4. GET /form list/435423336543

3. POST/Form List

Form Populates

GET

Homepage (/)

GET

Form List

(/Forms)

3 fields

POST

Sources:

<https://docs.oracle.com/database/121/CWADD/GUID-FB51DFBE-3132-42F6-AF8F-36820197EF6B.htm#CWADD91440> attained on May 2, 2019

Leonard Richardson & Mike Amundsen. *RESTful web APIs*. O’Reilly, 2013.