Test Plan – Services – Section 2

1. Objective

2. Requirements for Test

3. Test Strategy

4. Resources

5. Project Milestones

6. Deliverables

**7. Project Task**

\*Check the Current State of each resource.

\*Check the number of resource in endpoint ‘/start’.

\*Check the number of resource in endpoint ‘/run’.

\*Check the number of resource in endpoint ‘/stop’.

\*On endpoint ‘/start’, check if only the User ID is used as parameter.

\*On creating a new resource, its default state should be S0.

\*On endpoint ‘/start’, Check if, on successful state change, the state of the resource must change from S0 to S1.

\*On endpoint ‘/start’, Check if, on failing state change, the state of the resource must change from S0 to S5.

\* On endpoint ‘/run’, check if the User ID and the resource is used as parameter to validate that the resource belongs to the user.

\* Check if the state of the newly arrived resource in endpoint ‘/run’ is S1.

\* Check the state transition of the resource at endpoint ‘/run’.

- If state changes from S1 to S2 to S3, then the service ran successfully.

- If state changes from S1 to S5, then the service is a failure.

\* On endpoint ‘/stop’, check if the User ID and the resource is used as parameter to validate that the resource belongs to the user.

\* Check if the state of the newly arrived resource in endpoint ‘/stop’ is S3.

\* Check the state transition of the resource at endpoint ‘/stop’.

- If state changes from S3 to S4 to S5, then the service ran successfully.

- If state changes from S3 to S5, then the service is a failure.

\* Load the service with resources and check the maximum capacity and check its behavior.

- On Endpoint ‘/start’.

- On Endpoint ‘/run’.

- On Endpoint ‘/stop’.

\* Load the service with resources more than the maximum capacity and check its behavior.

- On Endpoint ‘/start’.

- On Endpoint ‘/run’.

- On Endpoint ‘/stop’.

\* Load the service with resources more than the maximum capacity in a short period of time and check its behavior.

- On Endpoint ‘/start’.

- On Endpoint ‘/run’.

- On Endpoint ‘/stop’.

\* Check the time taken for a successful state change of each resource.

- On Endpoint ‘/start’.

- On Endpoint ‘/run’.

- On Endpoint ‘/stop’.

\* While facilitating a state transition, check the behavior of the resources if terminated abruptly.

- On Endpoint ‘/start’.

- On Endpoint ‘/run.

- On Endpoint ‘/stop’.