LFN Mentorship Project Presentation

August 2020

THE **LINUX** FOUNDATION

LF NETWORKING

ONAP AUTOMATION TESTING-PORTAL SDC

› **Introduction**
  › **Name**: Ashish Singh
  › **Location**: India, Bangalore.
  › **University**: International Institute of Information Technology Bangalore
  › **Mentor(s)**: Christophe Closset, Ofir Sonsino, Gervais-Martial Ngueko
  › **LFN Project:** Onap Automation Testing Plateform Portal - SDC
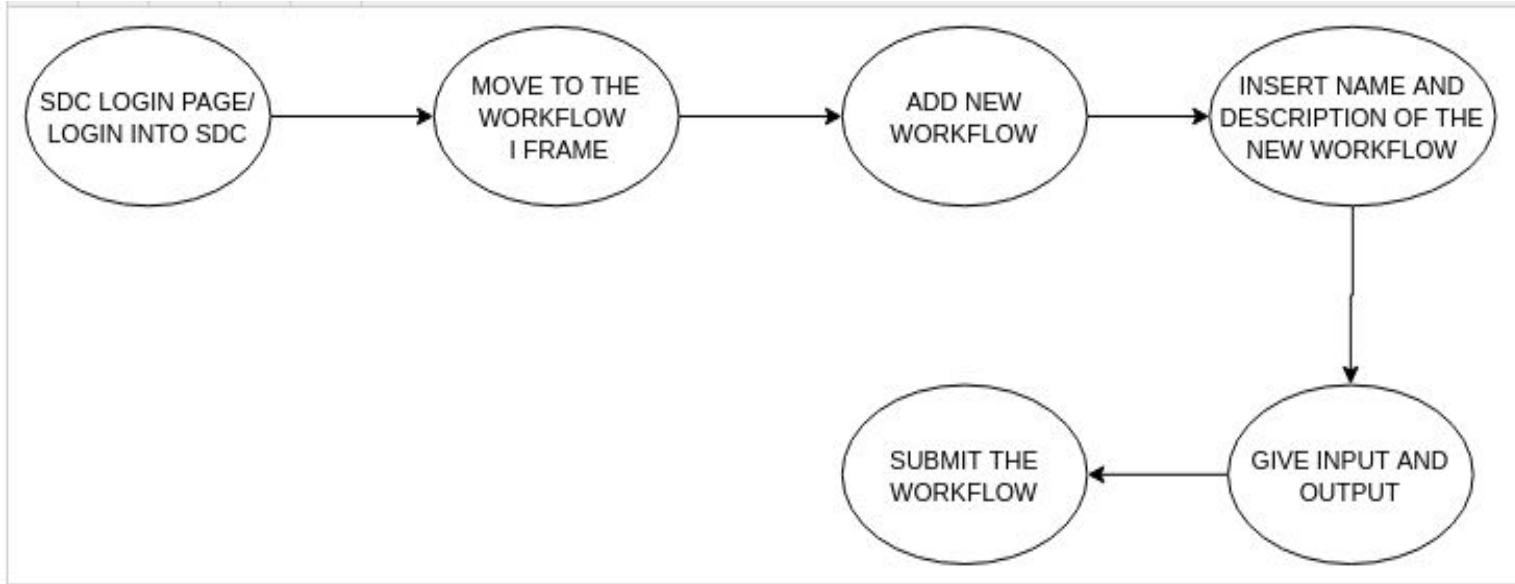
ONAP AUTOMATION TESTING- PORTAL SDC

› **Project Description**:

› SDC is the ONAP visual modeling and design tool. It creates internal metadata that describes assets used by all ONAP components, both at design time and run time.

› Workflow Designer is the tool which creates workflow for the services.

› The SDC manages the content of a catalog, and logical assemblies of selected catalog items --as needed-- to completely define how and when VNFs are realized in a target environment.A complete virtual assembly of specific catalog items, together with selected workflows and instance configuration data,completely defines how the deployment, activation, and life-cycle management of VNFs are accomplished.
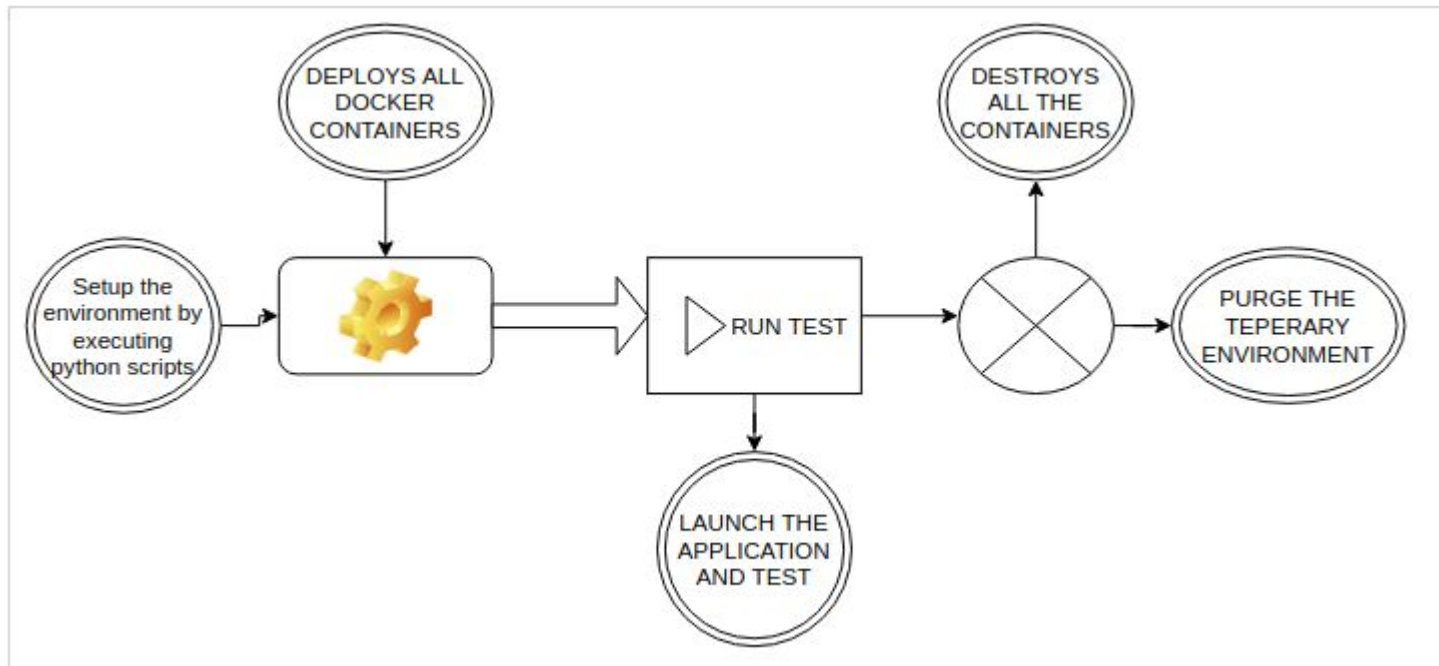
ONAP AUTOMATION TESTING-PORTAL SDC

Project Objectives:

› Basic UI Test for SDC and WF-D.

› Integration of the Test with the CSIT repository.

› Integration tests in target deployments using OOM.

› Upgrade SDC unit tests from Junit 4 to Junit 5.

› Documentation of the project.

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› **Project Deliverables:**
   › SDC-Issue 3181
   › SDC-Issue 3193
   › Documented my work on ONAP-SDC wiki page

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› **Project Execution & Accomplishments**:

› **Completed:**

– Preparing the Basic UI Test for SDC and WF-D.

– Integrated the Test with the CSIT repository.

– Helped the SDC Team solving the issue SDC-3181.

– Prepared the test for the SDC using the ONAP portal.

– Integrated the test with the test suite.

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› **InComplete:**

- Upgrade SDC unit tests from Junit 4 to Junit 5.

- **Technologies Used:**

- Selenium, RobotFramework for automation testing.

- Junit for unit testing

- Docker and Kubernetes for deployments

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› **Recommendations for future work**:

1) UI test can be further improved with more extensive testing **e.g.** checking the validity of the Artifacts.

2) Upgrade of the unit tests in both selenium and Junit.

3) More Tests for OOM gating.

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› **Project Output or Results:**
› Prepared the Basic UI Test for SDC and WF-D.
› Integrated the Test with the CSIT repository.
› https://jira.onap.org/browse/SDC-3193
› Helped solving the issue SDC-3181.
› https://jira.onap.org/browse/SDC-3181
› Created test for the ONAP-Portal.
› Documented my full work on the onap-sdc wiki page

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Challenges:
- Set Up issues
- Complex documentation
- Component limitations

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› **Insights Gained:** The project was very huge and I was very new to the project but later with the help of my mentors, I was able to understand the project really well. lots of time I spend understanding the project, At every step, I encounter something new and mentors were always there to help. I learned about the lots of new technologies I didn't work on before. I learned how to work as a team and what is the best way to work on a large project like ONAP. I am really glad I enrolled in the LFN Mentorship program. I met lots of amazing people and gained a lot of experience from them. I would like to thanks all of my mentors, especially **Christophe Closset, Ofir Sonsino, Xue Gao, Julien Bertozzi, Sébastien Determe, Gervais-Martial Ngueko and all the SDC Community**. Thanks **LFN Mentorship team** for giving this amazing 3 months.Thanks all of you for always helping me out.

THANK YOU!

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