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LFN Mentorship Project Presentation

November 2020

 THE **LINUX** FOUNDATION

 **LF** NETWORKING

ONAP Modeling/Etsicatalog

› Introduction

- › **Name:** Zihao Chen
- › **Location:** Beijing China
- › **University:** Beijing University of Posts and Telecommunications
- › **Mentor(s):** Yuanhong Deng
- › **LFN Project:** ONAP Modeling/etsicatalog

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› **Project Description:**

- Provides VNF/PNF/NS package management service by Micro Service.
- Includes a TOSCA parser service which provides generic parser service.
- store packages distributed by the SDC, which then can be consumed by other projects or components, such as UUI, VF-C, etc.
- A standalone web application based on Python3 and Django framework.

› **Technologies, Frameworks, Tools**

- DMAAP, Kubernetes
- Django, Docker
- Pycharm, Postman,

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- › **Project Objectives:** <what did you plan to do at the start?>
 - › Obj 1: support SDC Subscription/Notification functions
 - › Obj 2: design test case for SDC Subscription/Notification.
 - › Obj 3: Implement NFV/NS APIs alignment with ETSI
 - › Obj 4: Development documents and test report

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› **Project Deliverables:**

- › Deliverable 1: have supported SDC Subscription/Notification functions.
 - › Thread pool
 - › Rest-like APIs
- › Deliverable 2: have designed test case for SDC functions.
 - › Mock method
- › Deliverable 3: have finished the documents and test report.

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› **Project Execution & Accomplishments:**

> Not deliverables: Implement NFV/NS APIs alignment

> proud of:

a. Investigate open source development workflow, ONAP architecture.

b. Complete part of the objectives.

c. My work accepted as part of the project and contribute to open source projects

>challenging:

a. Complex document.

b. Familiar with new tool and technologies.

c. Consider the allocation and consumption of resources, such as thread, time.

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- › **Recommendations for future work:**
 - › Keep on implementing the NFV/NS APIs alignment with ETSI.
 - › Support more kinds of package that other component needed.
 - › Conduct system testing to ensure that all components work better.

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- › **Project Output or Results:** <e.g. links to code, reports, demo or anything you created that would be of interest to the rest of the community>
 - › **SDC Sub/Notification**
 - › **Etsicatalog SDC test case**
 - › **SDC report and Testcase report**

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> **Insights Gained:**

- > Access to the technology which used in the industry not in school
- > Best practices
- > Familiarity with open source development lifecycle
- > Meeting amazing community and mentor
- > Collaboration and Teamwork

> **Advice**

- > Sync with your mentor
- > Make a stretch scheduler

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THANK YOU!

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