

FLORIDA INTERNATIONAL UNIVERSITY

Senior Project Final Presentation

Spring 2023



AmLight - Learning OpenFlow/SDN Research and Experimentation

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Problem Definition

Whole Project:

- Kytos-ng is an open source software defined network (SDN) designed to implement network applications (NApps) and serve as the next controller for AmLight.

Spring 2023 Team Goal:

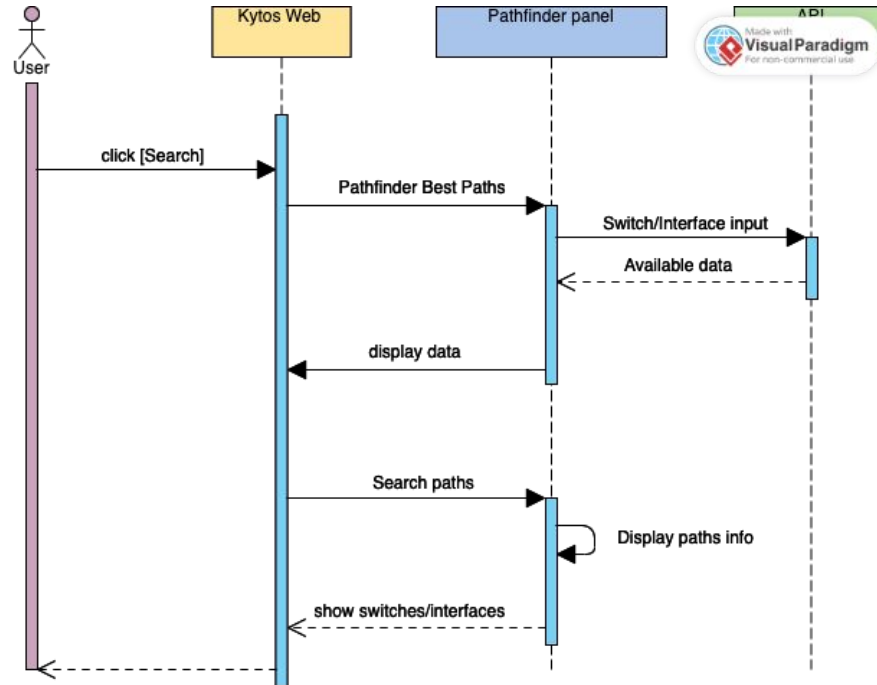
- Implement user friendly UI components, while also handling NApps test cases.



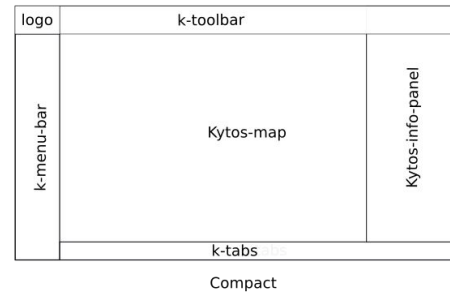
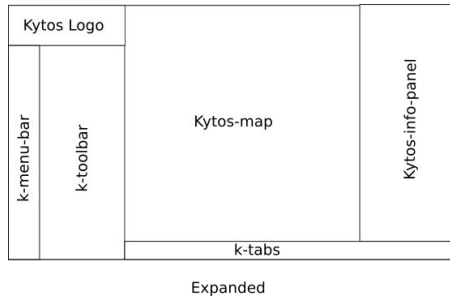
User Stories

- **User Story 1:** User friendly IDs for constraint path
- **User Story 2:** Source and destination elements
- **User Story 3:** Toolbar with inputs
- **User Story 4:** Info-panel with table
- **User Story 5:** Cookie filtering with dump flows
- **User Story 6:** Pathfinder endpoints test
- **User Story 7:** Flow stats endpoints test

Sequence Diagram

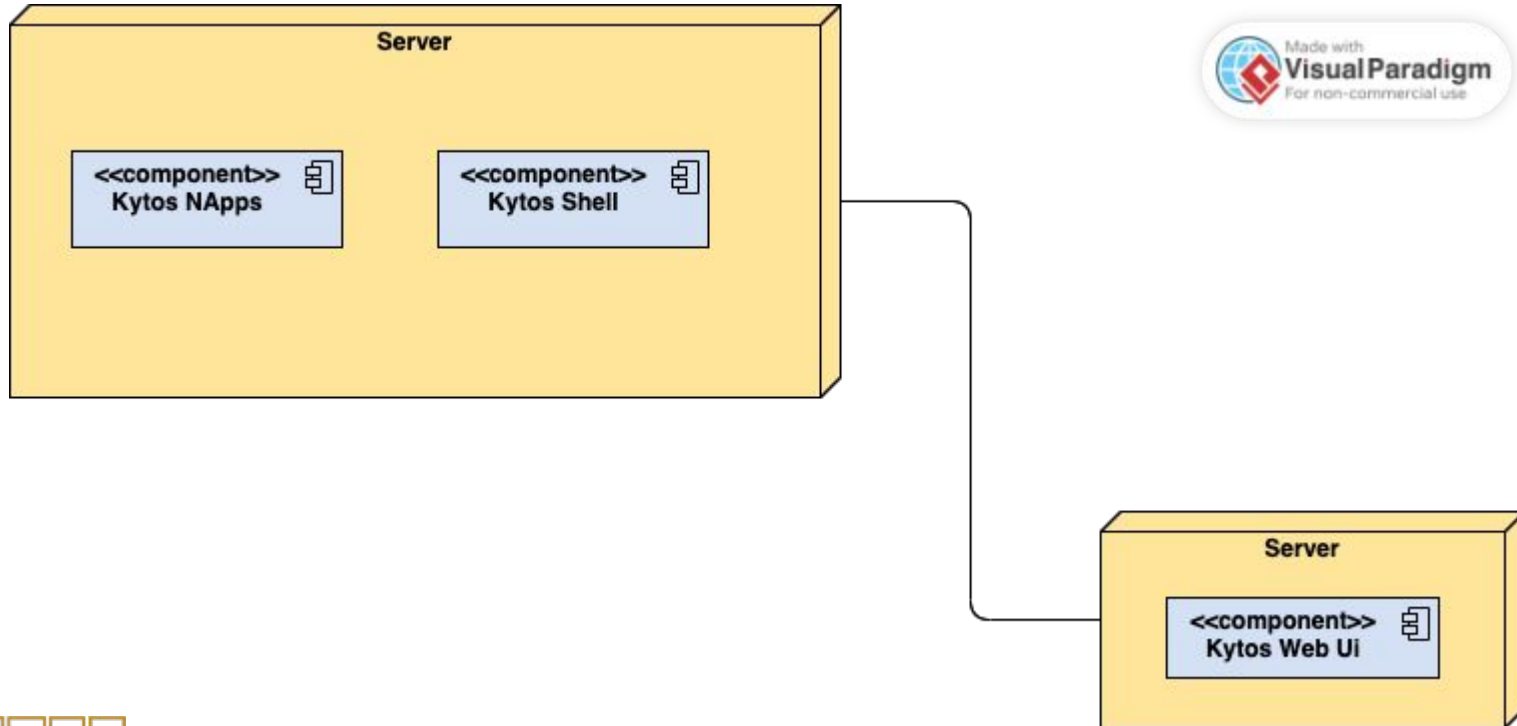


Architecture

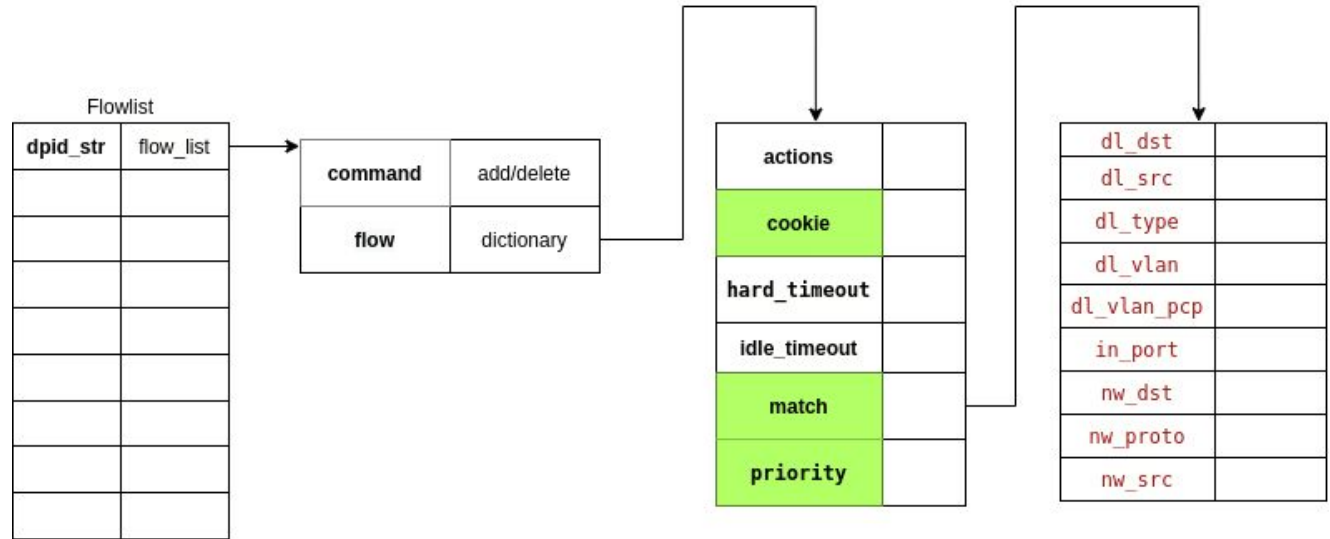


The Kytos web architecture allows for dynamic rearrangement of new or existing components.

Deployment Diagram



Class Diagram



Test Suites & Cases

- Sunny Day

Step	Function	Expected	Result	Status
1				

- Rainy Day

Step	Function	Expected	Result	Status
1				

Summary

Kytos-ng provides a customizable user interface through its NApps.

Thank you.