



School of Computing & Information Sciences

Spring 2023 Senior Design Project

AmLight - Learning OpenFlow/SDN network Research and Experimentation

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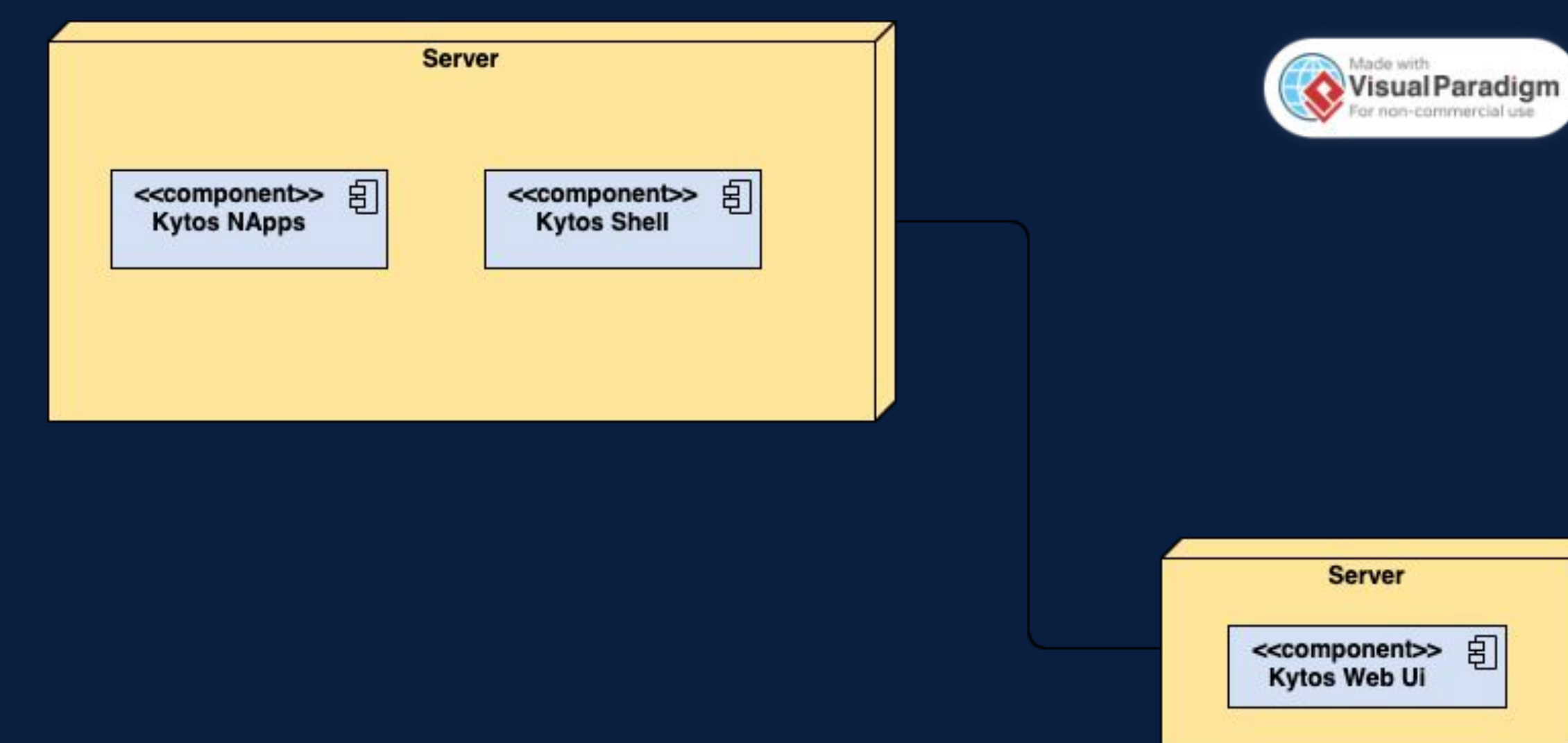
Instructor/Faculty: Dr. Masoud Sadjadi, Florida International University

PROBLEM

Kytos-ng is a Software Defined Networking Platform that uses and develops Napps. The main purpose of our role was to work on UI implementations and test cases for the web interface.

SYSTEM DESIGN

Pathfinder makes a ui call for source and destination



VERIFICATION

The UI was tested in accordance to goals of the project. After implementation were, code was pushed to GitHub for review from the main team.

CURRENT SYSTEM

Pathfinder has k-tool-bar component that utilizes api calls to display interfaces and switches in the current system. My goal was to help improve the ui to be displayed in a more human friendly manner.

OBJECT DESIGN

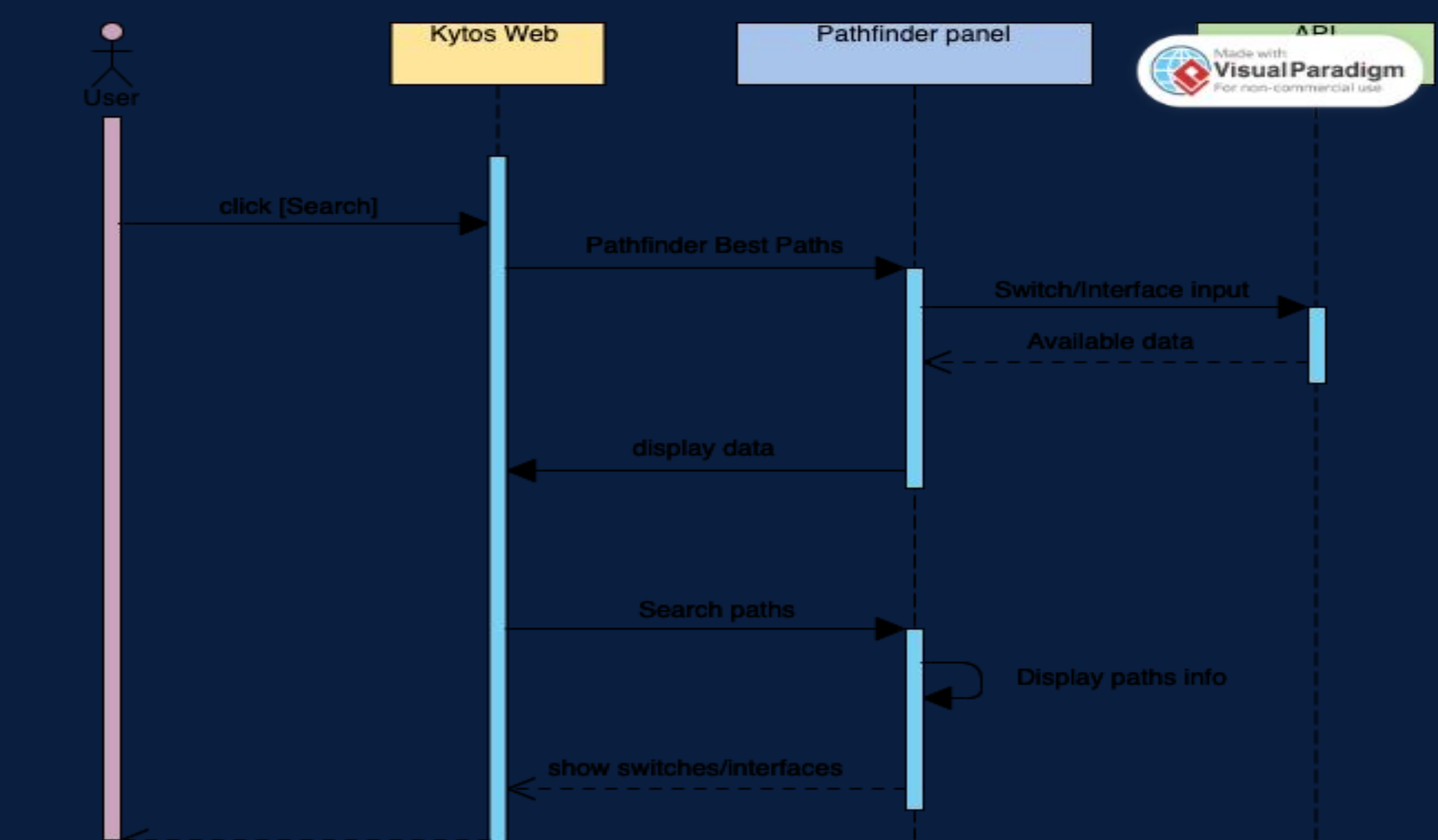
Pathfinder utilizes topology Napp to obtain metadata and display the interfaces.



REQUIREMENTS

- Virtual Machine to run Linux
- IDE that has python, html, css, html, and vue support
- Repository for management of code

IMPLEMENTATION



SUMMARY

User friendly adjustments were added to Ui to hopefully make it more appealing. Test cases weren't fully implemented in the grand scope but remain passable

ACKNOWLEDGEMENT

The material presented in this poster is based upon the work supported by Vasilka Chergarova. I thank Vasilka for her assistance and mentorship that I received throughout the senior design project.