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Design and Implementation of a Network Service Marketplace

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Abstract

The Internet has successfully served the world for more than three decades, while limitations and drawbacks still exist. A lot of researches have been done on innovation of Internet to address those inadequacies. One approach to improve Internet performance is to make choice as a principle in network architecture. We believe that a service-based network architecture with choice, or we call it ChoiceNet, is the most suitable option for future Internet. In this thesis, we design and implement a network service marketplace. Due to the flexibility and functionality of web application, the marketplace is implemented by a web application to fulfill functions such as storing and searching network services, handling actual financial transaction and interacting with client and service planner.

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