Project Proposal - CS G525

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"Deployment and evaluation of Click modular router toolkit"

Click is an open-source software architecture for building routers. It is assembled from packet processing modules called elements. Each elements implement common router functions like packet classification, queuing, scheduling etc. In this project I explore Click by learning Click configuration language in order to understand and evaluate its architecture.

Plan of action

Date	Particulars to be submitted
SEP 20	Initial Presentation detailing the idea of the project with the supporting research papers.
OCT 20	Mid. Sem. Presentation & Written Report detailing the progress and challenges faced so far.
DEC 1	Final Written Report and presentation with a demonstration.

References:

1. The Click modular router. Eddie Kohler, Robert Morris, Benjie Chen, John Jannotti, and M. Frans Kaashoek. ACM Transactions on Computer Systems **18**(3), August 2000, pages 263-297. A good survey of the system.

2. The Click modular router. *Repository on GitHub*.

3. Joongi Kim, Seonggu Huh, Keon Jang, KyoungSoo Park, and Sue Moon. 2012. The power of batching in the Click modular router. In *Proceedings of the Asia-Pacific Workshop on Systems* (APSYS '12). ACM, New York, NY, USA, , Article 14 , 6 pages. DOI=10.1145/2349896.2349910