

CPSC 426 Final Project Proposal: Implementation of Chord and Reputation System Based on Peerster

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1. Adding Chord routing protocol to Peerster.
 - 1) Keep the existing routing protocol for existing message sending.
 - 2) Adding the new chord routing protocol for key-value pair storage and retrieval. (ml862)
 - 3) UI Change:
 - a) Each peerster will have three more input fields: two for key-value pair inserting, and 1 for key searching (cx44)
2. Handling when a node joins and leaves. (cx44)
 - 1) 2 types of leaving
 - a) expected
 - b) unexpected
3. Implement a simple reputation system to assign reputation scores to each key-value pair. (ml862)
 - 1) The reputation algorithm will be based on the number of references of each key.

Waiting list feature:

UI Work:

1. Designing a new central server, that knows everything happening on the DHT, display the reputation of each key-value pair. (ml862)
2. Drawing a visualized circle that represents the DHT, and display the appearance of each node, and its corresponding finger table. (cx44)