**DOS Project 3**

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**Running the program:**

* Chord-Protocol : mix run .\proj3.exs 50 2
* Chord-Protocol : mix run .\proj3.exs 50 2 10 (10 here being the percentage of nodes to fail)

**Working:**

* The algorithms detailed out by the paper is implemented using create,join,stabilize,notify find\_successor, closes\_preceding\_node ,fix\_fingers, check\_predecessor.
* The chord ring is constructed by using the join method followed stabilize and fix\_fingers.
* The number of requests to be propagated is stored as a parameter of every actor and performs lookup as many times.

**Largest Network:**

**Normal Implementation**:

Number of Nodes=5000

Number of Requests=10

**With Failures**:

Number of Nodes=6500

Number of Requests=10

**Report:**

Reports for both normal and bonus is combined in one as Surya\_Project\_Report