CIS 553 Project 2 Demo Plan

Group name:
Demo start / end time:
Graded by:

Verbose Reference
* PENNSEARCH VERBOSE ALL ON/OFF
* PENNSEARCH VERBOSE CHORD ON/OFF
* PENNSEARCH VERBOSE SEARCH ON/OFF

Rubric

Well formed ring and search (from scenario file) -- 7 steps (39 points)
./build/scratch/simulator-main --routing=NS3 --scenario=scratch/scenarios/m2.sce
--inet-topo=scratch/topologies/m2.topo &> log

Run tail -F log (on another terminal) to check the output

- <u>Node to join the ring</u> (3 points)
	event : node 0 - node 19 join the ring
	result : should see lookupissue, lookuprequest, lookupresult log
- <u>Well formed ring</u> (3 points)
	event : 3 PENNSEARCH CHORD RINGSTATE
	result : check well formed ring, can also check above request path
- <u>P keyword metadata</u> (8 points, 2 points each)
	events : 2 PENNSEARCH PUBLISH metadata2.keys
		3 PENNSEARCH PUBLISH metadata3.keys
		4 PENNSEARCH PUBLISH metadata4.keys
		5 PENNSEARCH PUBLISH metadata5.keys
	result : should see publish and store log
- <u>Search correctness</u> (9 points, 3 points each)
	event : 1 PENNSEARCH SEARCH 4 Johnny-Depp
	result : Pirates-of-the-Caribbean Alice-in-Wonderland
	event : 3 PENNSEARCH SEARCH 10 Johnny-Depp Keira-Knightley
	result : Pirates-of-the-Caribbean
	event : 8 PENNSEARCH SEARCH 17 George-Clooney Brad-Pitt Matt-Damon
	result : Ocean's-Eleven Ocean's-Twelve
- <u>Search consistency</u> (4 points)

event : 2 PENNSEARCH SEARCH 12 Brad-Pitt
3 PENNSEARCH SEARCH 13 Brad-Pitt
4 PENNSEARCH SEARCH 14 Brad-Pitt
result : should all return
Mr-Mrs-Smith Ocean's-Eleven Ocean's-Twelve Fight-Club
- <u>Multiple searches from one node at same time</u> (9 points, 3 points each)
event : 15 PENNSEARCH SEARCH 15 Tom-Hardy
The-Dark-Knight-Rises Mad-Max
15 PENNSEARCH SEARCH 3 Emilia-Clarke
Game-of-Thrones
15 PENNSEARCH SEARCH 12 Chadwick-Boseemann
No such file
result :
- <u>Non-chord node issue search</u> (3 points)
event : 25 PENNSEARCH SEARCH 9 Tom-Hanks
result : Forrest-Gump Toy-Story
event : 21 PENNSEARCH SEARCH 16 Jeremy-Renner
result : Arrival

Well formed ring and search when node leaves (interactive) -- 7 steps (19 points)

./build/scratch/simulator-main --routing=NS3 --scenario=scratch/scenarios/m2i.sce
--inet-topo=scratch/topologies/m2.topo
Then interactively type in command:

- <u>Well formed ring</u> (0 points)
event : 7 PENNSEARCH CHORD RINGSTATE
result : check well formed ring

- <u>Search the owner of key</u> (4 points)
event : 3 PENNSEARCH SEARCH 10 Scarlet-Johansson
Avengers   Her
5 PENNSEARCH SEARCH 19 Leonardo-DiCaprio
Titanic Inception
17 PENNSEARCH SEARCH 19 Kristen-Stewart
The-Twilight-Saga
8 PENNSEARCH SEARCH 8 Chadwick-Boseman
Black-Panther
result : the owner of these keywords will report the docID of these keywords, keep a list
of these nodes.
- <u>Let the nodes above leave</u> (2 points)
event : nodeX PENNSEARCH CHORD LEAVE

result : the stored keywords will be repartitioned to adjacent node of leaving node, depending on implementation, should see key transfer

important Following search should not be issued to leaving nodes!
- <u>Well-formed ring</u> (2 points)
        event : x PENNSEARCH CHORD RINGSTATE
        result : should print ringstate log, check if it is well-formed.
- <u>Search correctness</u> (6 points)
        event : 1 PENNSEARCH SEARCH 1 Scarlet-Johansson (1 points)
        result : Avengers Her (owner change)
                5 PENNSEARCH SEARCH 5 Leonardo-DiCaprio(1 points)
                Titanic Inception (owner change)
                17 PENNSEARCH SEARCH 17 Kristen-Stewart(1 points)
                The-Twilight-Saga (owner change)
                8 PENNSEARCH SEARCH 8 Chadwick-Boseman(1 points)
                Black-Panther (owner change)
        event : 3 PENNSEARCH SEARCH 3 Jason-Statham Leonardo-DiCaprio (1 points)
        result : No such file
        event : 8 PENNSEARCH SEARCH 8 Emilia-Clarke Kit-Harington Peter-Dinklage (1 points)
        result : Game-of-Thrones
- <u>Search consistency</u> (3 points)
        event : 2 PENNSEARCH SEARCH 2 Megan-Fox
                3 PENNSEARCH SEARCH 3 Megan-Fox
                4 PENNSEARCH SEARCH 4 Megan-Fox
        result : should all return
                Transformers
- <u>non-chord node issue search</u> (2 points)
        event : 21 PENNSEARCH SEARCH 1 Orlando-Bloom
        result : Lord-of-the-Rings Pirates-of-the-Caribbean

Well formed ring and search when node join (interactive) -- 5 steps (17 points)

- add all of the above leaving node to the ring (at most add 4 nodes) (2 points)
        event : X PENNSEARCH CHORD JOIN 5
        result : should see keywords transfer (depends on if student add key transfer log)
- well-formed ring (3 points)
        event : 17 PENNSEARCH CHORD RINGSTATE
        result : should print ringstate log, check if it is well-formed.
- search correctness (6 points)
        event : 1 PENNSEARCH SEARCH 4 Scarlet-Johansson(1 points)
        result : Avengers Her (owner change)

5 PENNSEARCH SEARCH x Leonardo-DiCaprio(1 points)

Titanic Inception (owner change)

17 PENNSEARCH SEARCH x Kristen-Stewart(1 points)

The-Twilight-Saga (owner change)

8 PENNSEARCH SEARCH x Chadwick-Boseman(1 points)

Avengers Black-Panther (owner change)

event : 3 PENNSEARCH SEARCH 10 Jason-Statham Leonardo-DiCaprio (1 points)

result : No such file

event : 8 PENNSEARCH SEARCH 17 Emilia-Clarke Kit-Harington Peter-Dinklage (1 points)

result : Game-of-Thrones

- search consistency (4 points)

event : 2 PENNSEARCH SEARCH 12 Megan-Fox

3 PENNSEARCH SEARCH 13 Megan-Fox

4 PENNSEARCH SEARCH 14 Megan-Fox

result : should all return

Transformers

- non-chord node issue search (2 points)

event : 25 PENNSEARCH SEARCH 9 Tom-Hanks

result : Toy-Story   Forrest-Gump

event : 21 PENNSEARCH SEARCH 16 Sean-Connery Nicole-Kidman

result : No such file

Chord efficiency (10 points)

- Output average hop count at end of simulator. Add this to the destructor (StopApplication).
Ignore finger lookups.