

CS7NS6 Assignment

Implementing a Replicated Service Using Process Groups

Group:
All reports provided:
Language used:

Corrected by:
Hours spent on the exercise:

Architecture:
(Refer to report)

Service management

Initiate service	<input type="checkbox"/>	Shutdown service	<input type="checkbox"/>
Add replica to service	<input type="checkbox"/>	Remove replica from service	<input type="checkbox"/>

Service operation

Accept requests	From a single client	<input type="checkbox"/>	From multiple clients	<input type="checkbox"/>
Requests are ordered appropriately	<input type="checkbox"/>	Consistency of data maintained	<input type="checkbox"/>	
Concurrent requests supported	<input type="checkbox"/>			

Communication

Only IP-based communication	<input type="checkbox"/>	UDP	<input type="checkbox"/>	TCP	<input type="checkbox"/>	Other	<input type="checkbox"/>
Communication failures tolerated	<input type="checkbox"/>						

Replica failure

Replica failure detected/suspected	<input type="checkbox"/>	Disconnected replicas detected/suspected	<input type="checkbox"/>
Agreement on replica failure	<input type="checkbox"/>	Single group view maintained	<input type="checkbox"/>
Replica recovery supported	<input type="checkbox"/>	Total failure tolerated	<input type="checkbox"/>
Consistency of data maintained across failures	<input type="checkbox"/>		

Partitioning

Partitions handled	<input type="checkbox"/>	Single group view maintained	<input type="checkbox"/>
Two partitions including majority partition	<input type="checkbox"/>	n>2 partitions including majority partition	<input type="checkbox"/>
n partitions without majority partition	<input type="checkbox"/>		
Merging of partitions supported	<input type="checkbox"/>		
Consistency of data maintained across partitions/merges	<input type="checkbox"/>		

Other Features:

Test application/testing framework	<input type="checkbox"/>	GUI Interface	<input type="checkbox"/>
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Other Comments: