Project 5 – Team5babies

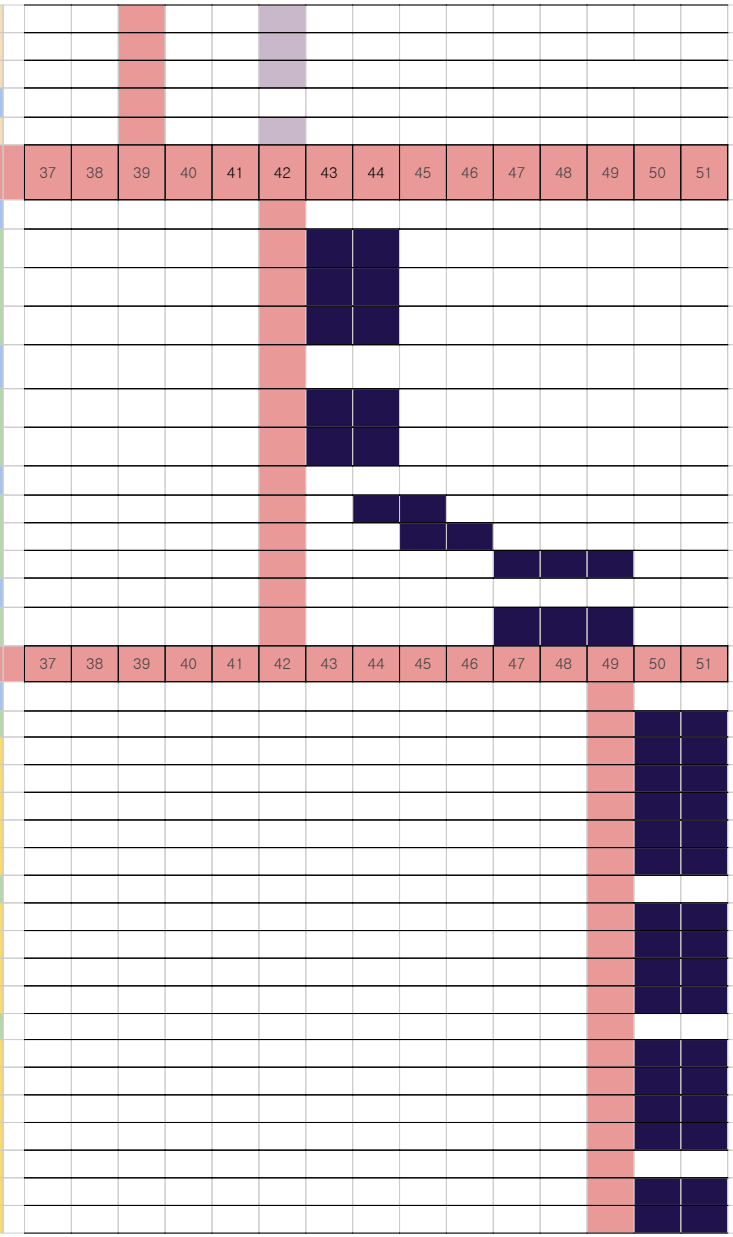
1

% Complete

% Incomplete

ACTIVITY	PLAN START (WEEK)	PLAN DURATION (WEEK)	ACTUAL START (WEEK)	ACTUAL DURATION (WEEK)	PERCENT COMPLETE (WEEK)	WEEKS 37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
Phase 1: Start (w37-w39)																				
Reviewing Lectures and Literature	37	1	37	1	100%															
Basic Client-Server Communication	38	1	38	1	100%															
Basic Logger class added to client and server	38	1	38	1	100%															
Setup of YCSB, MongoDb and Mininet	39	1	39	1	100%															
Investigate openflow protocol, flow-tables and traffic	39	1	39	1	100%															
MININET																				
- Create a simple mininet topology	39	2	39	2	100%															
YCSB Integration, according to YCSB documentation																				
- Extend YCSB's DB file	39	1	39	1	100%															
Phase 2: 1st Development Sprint (w40-w42)						37	38	39	40	41	42	43	44	45	46	47	48	49	50	51
MININET																				
- Create a Topology drawing	40	1	40	2	100%															
- Check Mininet Java Compatibility	40	1	40	1	100%															
- Sniff packet activity in Mininet using Wireshark	40	1	40	1	100%															
- Find a way to copy a file (executable) on the nodes of the topology	40	1	40	1	100%															
- Create topology according to the drawing	40	1	40	1	100%															
Code Reviews Set up																				
- Create am app in coderview.appspot.com	39	1	39	1	100%															
- Code Review setup for every team member	40	1	40	2	100%															
Project Managment activities																				
- Set up process for the team	40	1	40	1	100%															
- Created Trello Board	40	1	40	1	100%															
- Added stories in the trello board	40	1	40	1	100%															
- Created new Gantt chart	40	1	40	1	100%															
- Created common calendar	40	1	40	1	100%															
- Created week progress report	40	1	40	1	100%															
YCSB Integration, according to YCSB documentation																				
- YCSB- guide:Test the database layer via terminal.	40-41	1	41	2	100%															
- YCSB-guide:Compile database inerface layer	40-41	1	41	2	100%															
Core-Documentation																				
Define the format and structure of the DB file	40	1	41	2	100%															
Write a specification document around the KVS internals	40-41	1	40	2	100%															
Core-KVS Operations																				
Perform the read and write operation with one dummy file	41	1	41	1	100%															
Perform the read and write operation with the KVS as specified by the specs	41	1	41	1	100%															
Core-Message Boxes																				
Implement the inbox and the outbox classes	41	1	41	1	100%															
Implement the Broadcaster class	41	1	41	1	100%															
Core-General Tasks																				
Implement the operationRequest class	41	1	41	2	100%															
Implement the operationRequestExecutor class	41	1	41	1	100%															
Midterm presentation preparation																				

Preparation of the Midterm presentation	42	1	42	1	100%	
fix gantt Chart	42	1	42	1	100%	
fix the project plant	42	1	42	1	100%	
Midterm Peer Review						
(Will populate task details as soon us we have details from the TS)	42	1	42	1	100%	
Phase 3: 2nd Development Sprint(w43-w49) AFTER MIDTERM WORKSHOP						37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
Core-Master Role: Selection of New Master each dT						
Implemenation of CounterClass to count (Write_Operations) received from each Client each dT	44	1	45	2	100%	
Implementation of Delay measurment class on each slave to measure delay between (slave -> client) and Exp Moving Average of RTT	43	1	45	2	80%	
Receiver class on master receiving measurement and calculating cost function based on (Write count and RTT values)	43	1	45	2	70%	
Core-Master Role: Writing received data from (Client_Write_Operations)						
We changed the size of sent Key-Value data from 1KB into 20 B and when received at Master they are stored on HashMap data structure in Memory [1]	43	1	45	2	80%	
Implementation of WriterClass to flush the data stored from the HashMap into disk each dT [2]	43	1	45	2	80%	
Core-Master Role: Transition from Old Master to New Master						
Master broadcasting the new master node	44	2	47	2	0%	
Master transition from old master to new master(handover)	44	2	47	2	0%	
Master sending differential updates to other slave nodes every dT	44	2	47	2	0%	
Client Role: Concurrent Clients						
Implementation of Client class to make the clients work in parallel on the excuting the workload instead of one client at a time	43	1	45	2	80%	
Phase 4: Final Presentation Sprint (w50-w51)						37 38 39 40 41 42 43 44 45 46 47 48 49 50 51
Final Presentation						
Report Writing						
Section 1: background and the context for the project	50	2	50	2	0%	
Section 2: goal of the project	50	2	50	2	0%	
Section 3: unique contributions of the project	50	2	50	2	0%	
Section 4: different methods, approaches used	50	2	50	2	0%	
Section 5: Future Work	50	2	50	2	0%	
Video preparation	50-51	2	50-51	2	0%	
Read some part/section from the final report	50	2	50	2	0%	
Show some of our documentation drawings	50	2	50	2	0%	
Shoot with a camera video from KTH facilities	50	2	50	2	0%	
Edit video	50	2	50	2	0%	
Feedback to the teaching staff						
Feedback Paragraph on TAs	50	2	50	2	0%	
Improvement points	50	2	50	2	0%	
Learning outcomes	50	2	50	2	0%	
Feedback Paragraph on Dejan	50	2	50	2	0%	
Poster preparation	50-51	1	50-51	1	0%	
Prepare poster text	50	2	50	2	0%	
Prepare poster artwork	50	2	50	2	0%	



[1] Use Class MultiHashMap.
[2] Server.