Work Items	Priority	Status	Assignee	Work Estimate	New Estimate
Proposal		Done			
BRD		Done	Matthew	40	42
Tech Spec		Done	Jessie	20	22
HL Design		Done	Viet	20	20
Site Map		Done	Pammy	10	11
Project Plan		Done	Jessie	20	21
Test Plan		Done	Pammy	10	14
Network Diagram		Done	Matthew	10	9
Project Plan Core Components		Done	Matthew	10	1
BRD Revisions (Success conditions and refining error messages)		Done	Matthew	4	4
BRD Revisions (Refining error results, NFRs)		Done	Matthew	4	4
HL Infrastructure Revisions		Done	Viet	3	4
HL Specify Components		Done	Jessie	2	3
Tech Spec Revisions		Done	Jessie	2	3
Site Map Revisions		Done	Pammy	2	1
Test Plan Revisions		Done	Pammy	5	4
UM Sequence Diagrams(Rough Draft for Create, Rough Draft for Update and Delete (only Success)		Done	Viet	14	12
Setting Up Visual Studio Environment		Done	Jessie	5	5
BRD Core Components		Done	Pammy	10	3
O/RM DAR		Done	Jessie	15	15
Unit Testing DAR		Done	Pammy	3	12
UM Sequence Diagrams (Revise Create, Revise Update and Delete Success, Update and Delete Error, Disable and Enable, Logging and Archiving)		Done	Viet	12	33
UM Coding		Done	Pammy	30	28
Archiving Coding		Done	Matthew	15	4

Work Items	Priority	Status	Assignee	Work Estimate	New Estimate
Network Diagram Revisions		Postponed	Matthew Chen	6	
Winter Work Items					
Project Plan Revisions	6	Done	Jessie	5	11
Cloud DAR benchmarks	2	Done	Viet	12	13
Cloud DAR setup	1	Done	Viet	12	13
Cloud DAR First Draft	3	Done	Viet	2	1
Cloud Data Store DAR First Draft	4	Done	Viet	2	2
Frontend DAR	5		Pammy	6	6
Sequence Diagram Revisions (DA, Logging, Archiving)	7	Done	Matthew	9	12
Sequence Diagram Revisions (Authorization, Authentication, UM,	8	Done	Matthew	27	
Code Revisions (DAL, Logging, Archiving)	9	Done	Jessie	10	15
Code Revisions (UM)	10	Done			
Sequence Diagrams for Spring	11	Done			
BRD Core Component Revisions	12	Done	Viet	1	1
Spring Work Items					
Code Review (4/25/22)			Matthew		
Code Review (4/27/22)			Pammy		
Code Review (5/2/22)			Viet		
Code Review (5/4/22)			Jessie		

Work Items	Priority	Status	Assignee	Work Estimate	New Estimate
Tree Management Backend	1	In Progress	Jessie	10	10
Search - Backend, Backend Testing	2	Partially Done, In Progress	Matthew	37	32
Search - Frontend, Frontend Testing	3	In Progress	Matthew	37	32
Search - Documentation	4	In Progress	Matthew	3	3
Merge	5		Matthew	6	6
Account Deletion - Design, Backend, Backend testing	6	Partially Done	Viet	33	37
Usage Analysis Dashboard - Frontend, Frontend Testing, Documentation	7	Partially Done	Jessie	13	13
UAD Revisions	8	In Progress	Jessie	2	2
Create Node - Frontend (Finish), Frontend Testing	9	In Progress	Jessie	7	7
Delete Node - Design, Backend, Backend Testing, Frontend, Frontend Testing and Documentation	10	In Progress	Jessie	31	34
UM - Backend, Backend Testing, Frontend, Frontend Testing	11	In Progress	Viet	15	
Create Node - Design, Backend, Backend Testing, Frontend	12	Partially Done	Jessie	20	33
Create Node - Frontend Testing, Documentation	13	Partially Done	Jessie	6	8
Merge	14		Jessie	2	2
Logout Revisions	15	In Progress	Matthew	8	8
Authentication Documentation	16	In Progress	Matthew	2	2
Authorization Revisions	17	In Progress	Matthew	8	8
Logging/Archiving Documentation	18	In Progress	Matthew	2	2
Create Node Frontend (Finish)	19	In Progress	Jessie	7	7
Delete Node Frontend (Finish)	20	In Progress		10	10
UAD Revisions	21	In Progress	Jessie	2	2

Work Items	Priority	Status	Assignee	Work Estimate	New Estimate
Changing Parent of Node - Design, Test Writeup	22	In Progress	Jessie	30	20
Changing Parent of Node - Implementation, Testing, Documentation	23	In Progress	Jessie	38	19
Setting nodes public/private - Design, Backend implementation, Backend Testing	24		Viet	15	30
Setting nodes public/private - Frontend implementation, Frontend testing, documentation	25		Viet	25	30
Copy Node - Design	26	In Progress	Viet	25	
Copy Node - Test Writeup, Backend implementation, backend testing, frontend implementation, frontend testing	27	In Progress	Viet	43	40
Pasting - Design, Test Writeup, Backend implementation, Backend Testing	28	In Progress	Viet	35	30
Pasting - Frontend, Frontend Testing, Documentation	29	In Progress	Viet	23	30
Changing contents - Design	30		Viet	15	
Changing contents - Test writeup, backend, backend testing, frontend, frontend testing, Documentation	31		Viet	33	
Progress Tracker - Design, Test Writeup	32		Ryan	40	
Progress Tracker - Backend, Backend Testing	33		Ryan	45	
Progress Tracker - Frontend, Frontend Testing	34		Ryan	50	
Progress Tracker - Documentation	35		Ryan	5	
Rating - sequence diagram	36		Ryan	10	
Rating - coding (backend and front end), test case	37		Ryan	25	

Work Items	Priority	Status	Assignee	Work Estimate	New Estimate
Rating - test implementation and documentation	38		Ryan	5	
Tree History- Frontend and Frontend Testing	39	Partially done	Ian	30	
Tree History-Documentation	40	In Progress	Ian	10	
Final Deployment Setup	41			25	
Final Deployment Setup	42			25	
Authentication - Milestone 3 Revisions		Done	Matthew	9	10
Authorization - Milestone 3 Revisions		Done	Matthew	6	9
User Management - Milestone 3 Revisions		Done	Matthew	6	13
Cloud DAR Revisions - Hosting and Datastore/Database DAR		Done	Viet	4	8
Cloud Setup - Implementation (Frontend and backend), testing		Done	Viet	38	5
Front End DAR - Revisions		Done	Pammy	3	3
Database Setup		Done	Ian	53	
Datastore Access		Done	Ian	58	
PBKDF2 Frontend DAR		Done	Matthew	8	8
AJAX DAR		Done	Pammy		
Authentication - Sequence Diagrams for incorporating Cookies/Token, Test Writeup, Backend		Done	Matthew	30	30
Authentication - Test Writeup, Backend		Done	Matthew	7.5	14
Logout - Backend, Backend Testing		Done	Matthew	5	3
Authorization-Design, Backend, Frontend, Testing, Documentation		Done	Matthew	40	12
7Zip DAR		Done	Matthew	4	4

Work Items	Priority	Status	Assignee	Work Estimate	New Estimate
Authentication - Backend Testing, Front End, Frontend Testing, Documentation		Done	Matthew	30	28
Middleware - Authentication and Authorization		Done	Matthew	10	9
Authentication - Front End, Frontend Testing, Documentation		Done	Matthew	17	9
Request OTP - Everything		Done	Matthew	20	15
Request OTP - Front end, front end testing, documentation		Done	Matthew	6	4
Logout- Design, Backend, Frontend, Test, Document		Done	Jessie	40	6
Logout - Design, Frontend, Front end testing, documentation		Done	Matthew	7	6
Logging - Backend, backend testing		Done	Matthew	10	0
Archiving - Backend, backend testing		Done	Matthew	10	10
Account Deletion - Backend Revisions		Done	Viet	10	10
Tests - DI for Tests		Done	Matthew	4	6
Switch To Token Based Authentication		Done	Matthew	16	16
Authorization - Add Check for Correct User		Done	Matthew	2	2
Archiving - Rollback functionality		Done	Matthew	3	3
Search - Sequence Diagram Success Case		Done	Matthew	10	10
Setup UserHash table		Done	Pammy	1	1
Tree History- Design		Done	Ian	40	40
Account Deletion - Backend testing, Frontend, Frontend Testing, Documentation		Done	Viet	15	20
Registration - frontend, frontend testing, documentation		Done	Pammy	15	15
Recovery - Design, backend		Done	Pammy	30	32

Work Items	Priority	Status	Assignee	Work Estimate	New Estimate
Registration - Design, Test Writeup, Backend, backend testing		Done	Pammy	35	35
Create separate log table for analytical logs and archiveable/error logs		Done	Matthew	1	1
Change archiving to only archive unused logs table		Done	Matthew	1	1
Revise Authentication, Authorization, OTP Request regarding new UserHash table		Done	Matthew	3	3
Add hash column and destination parameter to logging		Done	Matthew	1	1
Search - Sequence Diagrams, Test Writeup		Done	Matthew	35	16
Account Deletion - Frontend, Frontend Testing, Documentation		Done	Viet	22	5
Account Deletion - Backend testing		Done	Viet	5	8
Tree History- Backend and Backend Testing		Done	Ian	30	
Tagging - coding (backend and frontend), Test case		Done	Pammy	35	
Tagging- Test Implementaion and documenation		Done	Pammy	8	
Tagging - Sequence Diagram		Done	Pammy	10	
Core Components					
Data Access	Ian				
Authentication	Matt				
Authorization	Matt				
Logout	Jessie				
Registration (Account Creation)	Pammy				
Account Recovery	Pammy				
Account Deletion	Viet				
User Management	Viet		Not Demoable		

Work Items	Priority	Status	Assignee	Work Estimate	New Estimate
Usage Analysis Dashboard	Jessie				
Logging	Jessie		Not Demoable		
Archiving	Viet		Not Demoable		

Team Capacity

	Weekly	Sprint 5 (10/31/2021 - 11/6/2021)	Sprint 6	Sprint 7	
Maximum Capacity					
Medium Capacity					
Minimum Capacity					
Average Expected Capacity					

Sprint 5

10/31/21-11/3/21	Jessie (J)	Matthew (M)	Pammy(P)	Viet (V)	
Expected Individual Capacity	6	4	6	4	Total: 20
Work Items	Tech Spec Revisions	BRD Revisions		HL Revisions	
Expected Work Capacity	2	1		4	Total: 10
New Expected Work Capacity					Total: 8
Decisions					

Sprint 6

11/5/21-11/10/21	Jessie (J)	Matthew (M)	Pammy(P)	Viet (V)	Total
Expected Individual Capacity	8	8	8	8	32
Work Items	HTML DAR	Cloud Provider DAR (Initial Draft)	NUnit DAR	React DAR	
	Tech Spec Revisions	BRD Revisions (Success conditions and refining error messages)	Site Map Revisions	HL Revisions	
	LL Research	LL Research	LL Research	LL Research	
Expected Work Capacity	8	8	8	8	32
New Expected Work Capacity	8	17	12	10	47
Decisions	After a breakdown, we found that some work items would take more work than we had initially predicted, so we divided some tasks for some work items up amongst people and split up the tasks for some work items to be done in this sprint and a future sprint.				
Final Expected Work Capacity	8	8	8	8	32

Sprint 7

11/12/21-11/19/21	Jessie (J)	Matthew (M)	Pammy(P)	Viet (V)	
Expected Individual Capacity	9	11	9	9	38
Work Items	Frontend DAR	BRD Revisions (Refining error results, NFRs)	Site Map Revisions (1)	HL Infrastructure Revisions	
	Reviewing HL	Cloud DAR (Revising)	UM (Sequence Diagram)	Core Components	
		Project Plan Revisions	Test Plan Revisions	Logging (Sequence Diagram)	
			Logging	HL Specify Components Revisions	
			UM		
Expected Work Capacity	8	23.7	10	22	
New Expected Work Capacity	8.5	10	45	9	37.5
Decisions					
Final Expected Work Capacity	8.5	10	9	9	37.5

Sprint 8

11/20/21-11/28/21	Jessie (J)	Matthew (M)	Pammy(P)	Viet (V)	
Expected Individual Capacity	12	16	15	20	63
Work Items	Revise HL (Specify Components)	Project Plan Revisions	NUnit DAR	Sequence Diagram (Create, update, delete accounts)	
	Setup Environment	Network Diagram Revisions	Test Plan Revisions	Sequence Diagram Revisions	
			UM (Sequence Diagram Revisions, Class Diagrams)		
Expected Work Capacity	8	16	8	16	
New Expected Work Capacity	8	16.7	7	20	52.45
Decisions					
Final Expected Work Capacity	8	16.7	7	20	52.45

Sprint 9

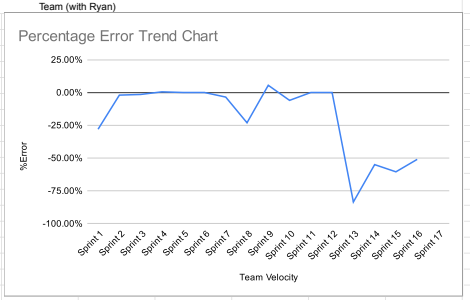
11/30/21-12/15/21	Jessie (J)	Matthew (M)	Pammy(P)	Viet (V)	
Expected Individual Capacity	24	24	28	24	
Work Items	O/RM DAR	Logging Coding	UM Coding	Sequence Diagrams (Revise Create, Revise Update and Delete Success, Update and Delete Error, Disable and Enable, Logging, Archiving)	
		Archiving Coding	NUnit DAR		
Expected Work Capacity	27	33	31	12	
New Expected Work Capacity	19	18	38	48	123
Decisions					
Final Expected Work Capacity	29	46	28	20	124

Sprint 10

1/5/22-1/11/22	Jessie (J)	Old	New	Matthew (M)	Old	New	Pammy(P)	Old	New	Viet (V)	Old	New	
Expected Individual Capacity	10			12			6			12			
Work Items	Project Plan Revisions	5	11	Sequence Diagrams (DA, Logging, Archiving)	9	12	Front-End DAR			BRD Revisions	10	12	
										Cloud DAR setup		1	
Expected Work Capacity	5			9			6			12			
New Expected Work Capacity	11			12			6			14			

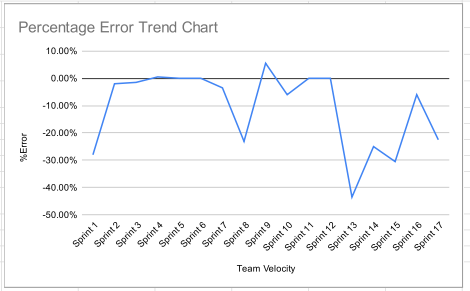
Team (with Ryan)

Team Velocity	Actual	Expected	%Error
Sprint 1	38	66	-28.00%
Sprint 2	37	39	-2.00%
Sprint 3	17.5	19	-1.50%
Sprint 4	27.5	27	0.50%
Sprint 5	8	8	0.00%
Sprint 6	32	32	0.00%
Sprint 7	34	37.5	-3.50%
Sprint 8	28.6	51.7	-23.10%
Sprint 9	128.5	123	5.50%
Sprint 10	34	40	-6.00%
Sprint 11	60	60	0.00%
Sprint 12	74	74	0.00%
Sprint 13	146.5	230	-83.50%
Sprint 14	195	250	-55.00%
Sprint 15	192.5	253	-60.50%
Sprint 16	214	265	-51.00%
Sprint 17	218.5	291	-72.50%



Team

Team Velocity	Actual	Expected	%Error
Sprint 1	38	66	-28.00%
Sprint 2	37	39	-2.00%
Sprint 3	17.5	19	-1.50%
Sprint 4	27.5	27	0.50%
Sprint 5	8	8	0.00%
Sprint 6	32	32	0.00%
Sprint 7	34	37.5	-3.50%
Sprint 8	28.6	51.7	-23.10%
Sprint 9	128.5	123	5.50%
Sprint 10	34	40	-6.00%
Sprint 11	60	60	0.00%
Sprint 12	74	74	0.00%
Sprint 13	146.5	190	-43.50%
Sprint 14	195	220	-25.00%
Sprint 15	192.5	223	-30.50%
Sprint 16	214	220	-6.00%
Sprint 17	218.5	241	-22.50%



Decisions												We decided to start off with low capacities this sprint in order to ease back into the Scrum process. We will be ramping up our capacities up until the next semester starts so we can hit the ground running.	
Final Expected Work Capacity	11			12			6			14			54

Sprint 11												
1/12/22-1/19/22	Jessie (J)	Old	New	Matthew (M)	Old	New	Pammy(P)	Old	New	Viet (V)	Old	New
Expected Individual Capacity	15			24			10			20		
Work Items	Code Revisions (DAL, Logging, Archiving)	10	15	Sequence Diagram Revisions (Authorization, Authentication, UM, Bulk, Create, Update, Delete, Disable, Enable)	27	24	DAR metric revision	3	3	Cloud DAR First Draft	2	2
							DAR metric description	1	1	Cloud DAR Benchmarks	14	12
							DAR front end recommendation	1	1	Cloud Data Store DAR First Draft	2	2
Expected Work Capacity				27			12			14		
New Expected Work Capacity				24						14		
Decisions												
Final Expected Work Capacity				24						14		

Sprint 12												
1/24/22-2/02/22	Jessie (J)	Old	New	Matthew (M)	Old	New	Pammy(P)	Old	New	Viet (V)	Old	New
Expected Individual Capacity	25			22			20			20		
Work Items	Datastore Access	4	4	User Access Control	14	13	Registration	10	10	Cloud Setup	6	6
	Code Revision (Implementation and Testing for Archiving and Logging)	5	5	User Management	9	6				Database Setup	2	2
	Usage Analysis Dashboard	23	16							Cloud Data Store DAR	2	4
	Add New Syllabus Information to Project Plan	1	1							Cloud Hosting DAR	2	6
Expected Work Capacity	33			23			10			20		
New Expected Work Capacity	32			16			10			18		
Decisions												
Final Expected Work Capacity	26			20			10			18		
Preferred Work Items	Database Setup (P #2)	2		User Access Control	14		Registration	10	10	Cloud Setup(Priority #1)	6	4
	Database Access (P# 3)	2		User Management	19					Database Setup(Priority #2)	2	2
										Copying Node		
										Pasting Node		

Sprint 13																		
2/7/22-2/19/22	Jessie (J)	Old	New	Matthew (M)	Old	New	Pammy(P)	Old	New	Viet (V)	Old	New	Ian (I)	Old	New	Ryan (R)	Old	New
Expected Individual Capacity	35			35			40			40			53					
Work Items	Usage Analysis Dashboard - Design, Test Writeup, Backend, Backend Testing	35	35	Authentication - Sequence Diagrams for incorporating Cookies/Token, Test Writeup, Backend	30	30	Registration - Design, Test Writeup, Backend, backend testing	35	33	Cloud Data Store DAR Revisions	2	2	Database Setup - Design	25	25	Logout- Design, Implementation, Testing, Documentation, Testing Writeup	40	40
							Front End DAR - Revisions	3	3	Cloud Hosting DAR Revisions	2	2	Database Setup - Implementation	10	10			
										Account Deletion	33	33	Database Setup - Testing	10	10			
													Database Setup - Documentation	3	3			
Old Expected Work Capacity	35			30			38			37			Database Setup - Test Case Write-up	5	5			40
New Expected Work Capacity	35			30			36			37								40
Decisions				I added a lot more time to research and design for Authentication as I felt that I needed to get a better understanding of what needs to go into it and that in doing so, the amount of time needed to do the actual coding would become less.			Focused more oen sequence diagrams and undesrtanding the concepts for email delivery service											
Final Expected Work Capacity	35			30			36			37								40

Sprint 14																		
2/21/22-3/5/22	Jessie (J)	Old	New	Matthew (M)	Old	New	Pammy(P)	Old	New	Viet (V)	Old	New	Ian (I)	Old	New	Ryan (R)	Old	New
Expected Individual Capacity	35			35			45			40			50					
Work Items	Usage Analysis Dashboard - Backend, Backend Testing	17	17	Authentication - Backend Testing, Front End, Frontend Testing, Documentaiton	30	15	Registration - backend, backend testing, frontend, frontend testing, documentation	28	28	Account Deletion - Backend, Backend testing, Frontend, Frontend Testing, Documentation, Test Writeup	22	22	Datastore Access - Design	30	30	Account Recovery	30	30
	Usage Analysis Dashboard - Frontend, Frontend Testing, Documentation	13	13	Authentication - Test Writeup, Backend	7.5	7	AJAX DAR	3	3				Datastore Access - Implementation	10	10		30	30

	Logout- Design, Backend,Frontend, Test, Document	40	20	PBKDF2 Frontend DAR	8	8							Datastore Access - Testing	15	15														
				Authorization-Design, Backend, Frontend, Testing, Documentation	40	7							Datastore Access - Documentation	3	3														
				Request OTP - Everything	20	15							Database Setup - Implementation	5	5														
Old Expected Work Capacity	70			105.5			31			22			63			30													
New Expected Work Capacity	50			52			60			22			50			30													
Decisions				I made the decision to increase the amount of time for the backend code as I feel like I will need some more time to implement the JwtToken and encryption. I also increased the time for the test writeup in response to this. In contrast, I estimated the time for the frontend code to be lower as it should not take as long as I previously estimated.									There was no need for a test case writeup for database setup. I only needed to check whether the tables were made and work. For the database setup implementation, I have not been able to communicate with Ryan with his feature. Depending on what happens with him and his feature, this part of the implementation will take longer than expected.									We decided to take Jessie off of Create Node and instead have him also do Logout for this sprint. We also decided to take Viet off of private/public and have him do part of the Data Access instead for this sprint. I also took in Authorization in addition to my already assigned Authentication. We also swapped Pammy off of Account Recovery and gave it to Ryan instead. Pammy will be helping the other members with front end as that is her specialty. All of these decisions were made in regards to the addition of new members, as well as the lack of participation by one member (Ryan).							
Final Expected Work Capacity	50			52			38			41						30													
Sprint 15																													
2/21/22-3/5/22	Jessie (J)	Old	New	Matthew (M)	Old	New	Pammy(P)	Old	New	Viet (V)	Old	New	Ian (I)	Old	New	Ryan (R)	Old	New											
Expected Individual Capacity	45			45						35			45			40													
Work Items	UAD - Backend Testing	2	2	Authentication - Front End, Frontend Testing, Documentation	17	9	Authentication - Frontend	6		Account Deletion - Backend testing, Frontend, Front End testing, Documentation	15	20	Datastore Access - Testing	3		Progress Tracker - Design, Test Writeup	40	40											
	UAD - Frontend Implementation	5	5	Logout - Backend, Backend Testing	5	0	Registration - doxument, testing frontend	5		UM - Backend, Backend Testing, Frontend, Frontend Testing	15	15	Tree History-Design	40														
	UAD - Documentation	3	2	Logout - Design, Frontend, Front end testing, documentation	7	6	Tagging-Sequence Diagramas	15		Account Deletion - Backend Revisions	10	10																
	UAD - Frontend Testing	5	2	Request OTP - Front end, front end testing, documentation	6	4																							
	Create Node - Design	15	15	Middleware - Authentication and Authorization	10	9																							
	Create Node - Backend	10	10	Logging - Backend, backend testing	10	8	ence Diagrams, backen	30																					
	Create Node - Backend Testing	5	5	Archiving - Backend, backend testing	10	10																							
	Create Node - Frontend Implementation	10	10	7Zip DAR	4	4																							
Old Expected Work Capacity	55			69			58			40 (35)			50			40													
New Expected Work Capacity	51			50			58			35 (45)			45			40													

Decisions	Due to leftover tasks from last sprint, Create Node - Frontend Testing and Document were not included. The work estimate for Create Node - Design was also lowered due to becoming more familiar with the process of creating Sequence Diagrams therefore there shouldn't be as much time spent trying to figure it out as I go. As for the increase in sprint capacity it is the result of the necessity to complete work items on a timely basis.			Logout Backend code and testing was done in between the last sprint and this sprint, so I have not kept it as a work item. In order to finish the core components from last sprint, as well as the core components of Logging and Archiving that we had not yet migrated over to our new project, I will not be working on my search feature for this sprint. Although in the project plan I have separated Search and Filter into separate work items, I will actually be combining them into one, as per the Professors feedback, so the estimates there should actually be combined and reduced a bit.						Since account deletion is partially done (backend testing and frontend implementation and testing), I have made it into another work item to finish up within this sprint. I have also made the decision to push setting nodes public and private to next sprint, even though it was supposed to be next up on my backlog. This decision was made because i would have to rely on node creation being completely done in order to work on setting nodes public and private, so I will be working on user management in the meantime. Mid sprint revision: After our team code review where I was picked to demo my account deletion feature, professor brought up important points about my component that needed urgent revisions and changes. But on my current ongoing sprint, I only had backend testing, which would be obsolete if I needed to make backend revisions. I then made the non-conventional decision to add in a backend revision work item mid sprint which I felt needed immediate addressing before moving onto my other tasks. That puts me above my estimated capacity which was a previous problem from last sprint that I was trying to address this sprint, but if this work item was not added then my burnup charts would not have reflected the work that I did, and would have left me way under capactiy from a glance.				It took longer to implement the testing with the addition of the in memory dao implementation and testing.				
Final Expected Work Capacity	51			50			58			35 (45)								
Sprint 16																		
3/21/22-4/2/22	Jessie (J)	Old	New	Matthew (M)	Old	New	Pammy(P)	Old	New	Viet (V)	Old	New	Ian (I)	Old	New	Ryan (R)	Old	New
Expected Individual Capacity	45			40						40			51			40		
Work Items	Create Node - Design, Backend, Backend Testing, Frontend			Switch To Token Based Authentication	16	16	Recovery - front end implementation, backend test writeup, backend testing, frontend testing, documentation	23	20	Account Deletion - Backend Revisions	10	6	Tree HIstory- Backend	30	30	Progress Tracker - Backend, Backend Testing	45	45
	Create Node - Frontend Testing, Documentation			Authorization - Add Check for Correct User	2	2	Tagging - backend implementation	10	10	Account Deletion - Backend testing, Frontend, Front End testing, Documentation	15	14	Tree History- Backend Testing	10	10			
	Delete Node - Design, Backend (Begin)			Tests - DI for Tests	4	6	Production Environment Setup	10	10	UM - Design, Backend Testing, Backend Implementation	15	15	Tree History - Design	7	7			
				Archiving - Rollback functionality	3	3	Registration - backend revision	2	2	Merge to Main	5	5	Database Access - Convert dao to async	4	4			
				Search - Sequence Diagram Success Case	10	10												
				Merge to Main	4	6												
Old Expected Work Capacity				39			43			40			45			45		
New Expected Work Capacity	44			43			42			40			51			45		
Decisions				For this sprint, I am once again continuing working on the Cookie for Authentication as there are still issues with it in regards to working with the frontend client. I will also be making necessary revisions for our tests, as well as adding in some missing functionality for some components. This is in contrast to my planned work for my Search feature as noted in the project plan. I have also made a dedicated work item for merging our production ready code to the main for purposes of showing.									Because of not planning my sprint properly, I migrated the leftover tasks to this sprint. In memory dao and sql dao need to be converted to async.					
Final Expected Work Capacity	44			43			42			40						45		
Sprint 17																		
4/4/22-4/17/22	Jessie (J)	Old	New	Matthew (M)	Old	New	Pammy(P)	Old	New	Viet (V)	Old	New	Ian (I)	Old	New	Ryan (R)	Old	New
Expected Individual Capacity	45			60												40		
Work Items	Merge	2	2	Add hash column and destination parameter to logging	1	1	Tagging - Frontend, Test Writeup, Testing, Documentation	28	23	Account Deletion - Frontend, Frontend Testing, Documentation	22	5	Tree HIstory- Backend Testing	5	5	Progress Tracker - Frontend, Frontend Testing	50	50

	UAD Revisions	2	2	Create separate log table for analytical logs and archiveable/error logs	1	1	Rating - Sequence Diagram, Backend	20	20	Account Deletion - Backend testing	5	8	Tree History- Frontend	30	30	
	Create Node - Frontend (Finish), Frontend Testing	7	7	Change archiving to only archive unused logs table	1	1	Routing DAR	1	1	Copy Node - Test Writeup, Backend implementation, backend testing, frontend implementation, frontend testing	43	45	Tree History- Frontend Testing	10	16	
	Delete Node - Design, Backend, Backend Testing, Frontend, Frontend Testing and Documentation	31	34	Revise Authentication, Authorization, OTP Request regarding new UserHash table	3	3	Search Bar DAR	1	1							
				Search - Sequence Diagrams, Test Writeup	35	16										
				Search - Backend, Backend Testing, Frontend, Frontend Testing	37	64										
				Merge	4	4										
Old Expected Work Capacity	42			82			50					40				50
New Expected Work Capacity	45			94			45					58				50
Decisions				I will not be doing and frontend for Search this sprint as it will far exceed my capacity for this sprint. In constrast to the project plan, I have in fact combined the Filter feature with the Search feature as per the professors remarks on the topic, which is why there are no more work items specifically for Filter.						I will also be postponing UM and setting nodes public/private in order to focus on my component for the individual code review. I expect this component to be front end heavy, so I have kept the capacity relatively the same in order to account for any issues I might run into along the way.						
Final Expected Work Capacity				62			43									50

Sprint 18

4/4/22-4/17/22	Jessie (J)	Old	New	Matthew (M)	Old	New	Pammy(P)	Old	New	Viet (V)	Old	New	Ian (I)	Old	New
Expected Individual Capacity	56			70			50			50			45		
	Tree Management Backend	10	10												
Work Items	Create Node Frontend (Finish)	7	7	Search - Backend, Backend Testing	12	12	Merge to Production	5	5	Copy Design	8	4	Tree History- Frontend Testing	6	12
	Delete Node Frontend (Finish)	10	10	Search - Frontend, Frontend Testing	32	32	Tree Component - Revisions	7	7	Copy Backend implementation	10	10	Tree History - Draft Code Review Presentation	20	20
	UAD Revisions	2	2	Search - Documentation	3	3	Tagging - Frontend Revisions	12	12	Copy Backend testing	5	3	Tree History - Documentation	10	15
	Changing Parent of Node - Design, Test Writeup	30	20	Merge to Production	6	6	Tagging - Backend Revisions	5	5	Copy Frontend Implementation	15	5			
	Changing Parent of Node - Implementation, Testing, Documentation	38	19	Logout Revisions	8	8	Tagging - Testing Revisions	6	6	Copy Frontend Testing	5	5			
				Authentication Documentation	2	2	Tagging - documentation Revisions	5	5	Paste Design	5	5			
				Authorization Revisions	8	8	Set up Production Environment	8	8	Paste Backend implementation	10	10			
				Logging/Archiving Documentation	2	2	Frontend - Portal	15	15	Paste Backend testing	5	5			
										Paste Frontend Implementation	5	10			
										Paste Frontend Testing	5	5			
										Merge	5	3			
Old Expected Work Capacity	97			73			63			40					
New Expected Work Capacity	68			73			63			65					
Decisions										After speaking with the professor about my component being a single responsibility principle, i made the decision to couple them together instead of separating copy and paste into two separate sprints.					
Final Expected Work Capacity				73						55					

Sprint 6									
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)		
Task Breakdown	TS - Specfiy Environments	1	Success Conditions	0.5	Research NUnit	3	Research into javascript REACT frameworks	2	
	TS - Research SQL Alternative	1	Refine Error Messages	0.5	Research XUnit	3	HL Infrastructure revisions	2	
	TS - Research Windows 10 Alternative	1	Refine Error Results	1	Research MSTeams	2	HL Specify components revisions	2	
	Research Technologies for LL	3	Usability NFR	0.5	Revise Format of Site Map	1	User Management research	2	
	Create DAR for HTML	2	Maintainability NFR	2	Research Technologies for LL	3	Logging research	2	
			Security NFR	1					
			Scalability NFR	0.5					
			Research Azure	5					
			Research AWS	5					
			Research Technologies for LL	3					
			Create DAR for Azure and AWS	1					
Total:		8		17		12		10	
Assigned Tasks	TS - Specfiy Environments	1	Research Azure	3	Research NUnit	3	~~Research AWS firewall~~	2	
	TS - Research SQL Alternative	1	Research AWS	3	Research XUnit	3	~~Research Azure firewall~~	2	
	TS - Research Windows 10 Alternative	1	Create DAR for Azure and AWS	1	Research MSTest	2	~~HL Infrastructure revisions~~	2	
	Research Technologies for LL	3	Success Conditions	0.5			~~Research into javascript REACT frameworks~~	2	
	Create DAR for HTML	2	Refine Error Messages	0.5					
Total:		8		8		8		8	
Leftover Tasks			Refine Error Results	1	Revise Format of Site Map	1	User Management research	2	
			Usability NFR	0.5	Research Technologies for LL	3	Logging research	2	
			Maintainability NFR	2			HL Specify components revisions	2	
			Security NFR	1					
			Scalability NFR	0.5					
			Research Technologies for LL	3					
Total:				8		4		4	

Sprint 7									
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)		
Task Breakdown	Research HTML & CSS	0.5	Refine Error Results	1	Revise Format of Site Map	1	BRD Core components(2)	4	
	Research Angular	1	Usability NFR	0.5	UM: Identify Main Responsibilities	2	Site Map Core components(3)	2	
	Research React	1	Maintainability NFR	1	UM: Identify Process	2	Project plan/roadmap Core component(1)	2	
	Research React.js	0.5	Security NFR	1	Revise Test Plan Test Data	2	Test plan core components(4) COPY OVER	3	
	Research Vue.js	0.5	Scalability NFR	0.5	Revise Test Plan Pass/Failure Case	2	Logging: Identify Main Responsibilities	2	
	Draft DAR Report	1	Revise Cloud DAR	3	UM: Coding	16	Logging: Identify Process	2	
	Review High Level For System	2	Risk Mitigation Planning	3			Logging: Coding	16	
	Identify Key Factors for Tech	2	Total estimate with units for project	0.5	Logging: Identify Main Responsibilities	2			
			Identify human resources and associated costs	0.5	Logging: Identify Process	2			
			Specify stand-alone work item for deploying solutions to production environment within Sprints	0.1	Logging: Coding	16			

			Get better estimate for effort needed to setup the production environment	0.5								
			Explicitly idenfity date that production deployment will take place	0.1								
			Align specific test cases to planned Sprints	0.5								
			Have a Gantt chart showing resources as rows with plan work as columns to view critical paths and resource utilization	2								
			Clearer format in general	2								
			Focus on inftrastructure of network traffic of application (things in our controll)	1								
			Show system level details (CPU, RAM, etc. when applicable)	3								
			Specify component names	0.5								
			Label input and outputs	0.5								
			Remove things that will be for the future	0.5								
			IP's (put list as separate doc and reference)	2								
Total:		8.5		23.7		45		31				
Assigned Tasks	Research HTML & CSS	0.5	Refine Error Results	1	Revise Format of Site Map	1	BRD Core components	2				
	Research Angular	1	Usability NFR	0.5	Core components to Site Map	2	HL Specify components revisions	2				
	Research React	1	Maintainability NFR	1	UM Sequence Diagram	4	Logging Sequence Diagram	5				
	Research React.js	0.5	Security NFR	1	Test plan core components(4) COPY OVER	3						
	Research Vue.js	0.5	Scalability NFR	0.5								
	Draft DAR Report	1	Revise Cloud DAR	4								
	Review High Level For System	2	Project plan/roadmap Core component	2								
	Identify Key Factors for Tech	2										
Total:		8.5		10		10		9				
Leftover Tasks	Identify Key Factors for Tech	1.5	Risk Mitigation Planning	3	UM Diagram Revisions	1	Logging: Coding	16				
	Review High Level for System	0.5	Total estimate with units for project	0.5	UM Class Diagram	1	HL Specify components revisions	2				
			Identify human resources and associated costs	0.5	Unit Testing DAR	1						
			Specify stand-alone work item for deploying solutions to production environment within Sprints	0.1	Revise Test Plan Test Data	2						
			Get better estimate for effort needed to setup the production environment	0.5	Revise Test Plan Pass/Failure Case	2						
			Explicitly idenfity date that production deployment will take place	0.1								
			Align specific test cases to planned Sprints	0.5								
			Have a Gantt chart showing resources as rows with plan work as columns to view critical paths and resource utilization	2								
			Clearer format in general	2								

			Focus on inftrastructure of network traffic of application (things in our controll)	1								
			Show system level details (CPU, RAM, etc. when applicable)	3								
			Specify component names	0.5								
			Label input and outputs	0.5								
			Remove things that will be for the future	0.5								
			IP's (put list as separate doc and reference)	2								
Total:				16.7								
Sprint 8												
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)					
Task Breakdown	HL Design - Specify Components	3	Risk Mitigation Planning	3	UM Diagram Revisions	2	Sequence Diagram: Creating account success	3				
	Setup VS Environment	2	Total estimate with units for project	0.5	NUnit DAR	1	Sequence Diagram: Updating account success	3				
	Setup Database	2	Identify human resources and associated costs	0.5	Revise Test Plan Test Data	2	Sequence Diagram: Deleting account success	2				
	Connect Database	1	Specify stand-alone work item for deploying solutions to production environment within Sprints	0.1	Revise Test Plan Pass/Failure Case	2	Sequence Diagram Disable account sucess	1				
			Get better estimate for effort needed to setup the production environment	0.5			Sequence Diagram Enable account sucess	1				
			Explicitly idenfity date that production deployment will take place	0.1			Sequence Diagram: Creating account fail case	3				
			Align specific test cases to planned Sprints	0.5			Sequence Diagram: Updating account fail case	2				
			Have a Gantt chart showing resources as rows with plan work as columns to view critical paths and resource utilization	2			Sequence Diagram: Deleting account fail case	1				
			Clearer format in general	2			Sequence Diagram Disable account fail case	1				
			Focus on inftrastructure of network traffic of application (things in our controll)	1			Sequence Diagram Enable account fail case	1				
			Show system level details (CPU, RAM, etc. when applicable)	3								
			Specify component names	0.5								
			Label input and outputs	0.5								
			Remove things that will be for the future	0.5								
			IP's (put list as separate doc and reference)	2								
Total:		8		16.7		7		18				
Assigned Tasks	HL Design - Specify Components	3	Risk Mitigation Planning	3	UM Document	4	Sequence Diagram: Creating account success	3				
	Setup VS Environment	2	Total estimate with units for project	0.5	Revise Test Plan Pass/Failure Case	2	Sequence Diagram: Updating account success	3				
	Setup Database	2	Identify human resources and associated costs	0.5			Sequence Diagram: Deleting account success	2				

	Connect Database	1	Specify stand-alone work item for deploying solutions to production environment within Sprints	0.1			Sequence Diagram Disable account sucess	1				
			Get better estimate for effort needed to setup the production environment	0.5			Sequence Diagram Enable account sucess	1				
			Explicitly idenfity date that production deployment will take place	0.1			Sequence Diagram: Creating account fail case	3				
			Align specific test cases to planned Sprints	0.5			Sequence Diagram: Updating account fail case	2				
			Have a Gantt chart showing resources as rows with plan work as columns to view critical paths and resource utilization	2			Sequence Diagram: Deleting account fail case	1				
			Clearer format in general	2			Sequence Diagram Disable account fail case	1				
			Focus on inftrastructure of network traffic of application (things in our controll)	1			Sequence Diagram Enable account fail case	1				
			Show system level details (CPU, RAM, etc. when applicable)	3								
			Specify component names	0.5								
			Label input and outputs	0.5								
			Remove things that will be for the future	0.5								
			IP's (put list as separate doc and reference)	2								
Total:		8		16.7		8		18				
Leftover Tasks							Sequence Diagram Disable account sucess	1				
							Sequence Diagram Enable account sucess	1				
							Sequence Diagram Disable account fail case	1				
							Sequence Diagram Enable account fail case	1				
Total:												
Sprint 9												
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)					
Task Breakdown	~~Draft DAR Deliverable~~	1	~~Logging Code~~	4	~~Resarch Nunit testing Unit Testing~~	1	~~Sequence Diagram Create Account Revision~~	3				
	~~Find Suitable ORMs for Comparison~~	2	~~Logging Unit Test Write Up~~	1	~~Research XUnit Testing Unit Testing~~	1	~~Sequence Diagram Update Account Revision~~	2				
	~~Create Tests for Dapper~~	3	~~Archiving Code~~	4	~~Research MSTest Unit Testing~~	1	~~Sequence Diagram Delete Account Revision~~	2				
	~~Create Tests for EFCore~~	3	~~Archiving Unit Test Write Up~~	1	~~Create Unit Test Write Up~~	1	~~Sequence Diagram Enable Account~~	2				
	~~Create Tests for nHibernate~~	3	~~Code for UM View~~	4	~~Delete Unit Test Write Up~~	1	~~Sequence Diagram Disable Account~~	2				
	~~Create Compairson Matrix~~	3	~~Database Setup~~	4	~~Update Unit Test Write Up~~	1	~~Sequence Diagram Create Account Error Case Revision~~	2				
	~~Revise DAR ORM~~	2			~~Enable Unit Test Write Up~~	1	~~Sequence Diagram Update Account Error Case~~	2				

	~~BRD Core Components~~	2			~~Disable Unit Test Write Up~~	1	~~Sequence Diagram Delete Account Error Case~~	2				
					~~Authentication Unit Test Write Up~~	1	~~Sequence Diagram Enable Account Error Case~~	2				
					~~Authorization Unit Test Write Up~~	1	~~Sequence Diagram Disable Account Error Case~~	2				
					~~Code for Create~~	4	~~Sequence Diagram Logging~~	3				
					~~Code for Delete~~	4	~~Sequence Diagram Archiving~~	3				
					~~Code for Update~~	4	~~Sequence Diagram for Authentication~~	4				
					~~Code for Enable~~	4	~~Sequence Diagram for Authorization~~	2				
					~~Code for Disable~~	4	~~Sequence Diagram for Error Authentication Case~~	2				
					~~Code for Authentication~~	4	~~Sequence Diagram for Error Authorization~~	2				
					~~Code for Authorization~~	4	~~Sequence Diagram for Error Logging~~	2				
							~~Sequence Diagram for Error Archiving~~	2				
							~~Sequence Diagram UM View~~	5				
							~~Sequence Diagram UM View Error Cases~~	2				
Total:		19		18		38		48				
Assigned Tasks	Draft DAR Deliverable	1	Logging Code	4	Research Nunit testing Unit Testing	1	Sequence Diagram Create Account Error Case Revision	2				
	Find Suitable ORMs for Comparison	2	Logging Unit Test Write Up	1	Research XUnit Testing Unit Testing	1	Sequence Diagram Update Account Error Case	2				
	Create Tests for Dapper	3	Archiving Code	4	Research MSTest Unit Testing	1	Sequence Diagram Delete Account Error Case	2				
	Create Tests for EFCore	3	Archiving Unit Test Write Up	1	Code for Enable	4	Sequence Diagram Enable Account Error Case	2				
	Create Tests for nHibernate	3	Sequence Diagram UM View	5	Code for Authentication	4	Sequence Diagram Disable Account Error Case	2				
	Create Compairson Matrix	3	Sequence Diagram Enable Account	2	Code for Authorization	4	Sequence Diagram for Error Authentication Case	2				
	Revise ORM DAR	2	Sequence Diagram Disable Account	2	BRD Core Components	2	Sequence Diagram for Error Authorization	2				
	Code for Create	4	Sequence Diagram Logging	3	Code for Disable	4	Sequence Diagram for Error Logging	2				
	Code for Delete	4	Sequence Diagram Archiving	3	Create Unit Test Write Up	1	Sequence Diagram for Error Archiving	2				
	Code for Update	4	Sequence Diagram for Authentication	4	Delete Unit Test Write Up	1	Sequence Diagram UM View Error Cases	2				
			Sequence Diagram for Authorization	2	Update Unit Test Write Up	1						
			Sequence Diagram Create Account Revision	3	Enable Unit Test Write Up	1						
			Sequence Diagram Update Account Revision	2	Disable Unit Test Write Up	1						
			Sequence Diagram Delete Account Revision	2	Authentication Unit Test Write Up	1						
			Code for UM View	4	Authorization Unit Test Write Up	1						
			Database Setup	4								

Total:		29		46		28		20				
Leftover Tasks												
Total:												
Sprint 10												
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)					
Task Breakdown	Update Core Component Estimates	1	~~DA Diagram Revision~~	4	Research React	1	Cloud DAR metrics email	1				
	Update Application Specific Components	1	~~Logging Diagram Revision~~	4	Research Vue	1	BRD Revisions	1				
	Factor in Code Review Times	1	~~Archiving Diagram Revision~~	4	Research Angular	1	AWS Cloud setup	4				
	Add Estimates/Times for other tasks	1	~~Authorization Diagram Revision~~	3	DAR First draft	3	Azure Cloud setup	4				
	Add Risks and Mitigations	1	~~Authentication Diagram Revision~~	3			Google Cloud setup	4				
	Break up Default Tasks	1	~~UM Diagram Revision~~	3								
	Update efforts on setting up environment	1	~~Bulk Operation Diagram Revision~~	3								
	Specify Dates on Production Deployment	1	~~Create Diagram Revision~~	3								
	Align Test Cases with Project Plan	1	~~Update Diagram Revision~~	3								
	Add Gantt Chart	2	~~Delete Diagram Revision~~	3								
			~~Disable Diagram Revision~~	3								
			~~Enable Diagram Revision~~	3								
Total:		11		39				14				
Assigned Tasks	Update Application Specific Components	1	DA Diagram Revision	4	Research React	1	Cloud DAR metrics email	1				
	Factor in Code Review Times	1	Logging Diagram Revision	4	Research Vue	1	BRD Revisions	1				
	Add Estimates/Times for other tasks	1	Archiving Diagram Revision	4	Research Angular	1	AWS Cloud benchmark	4				
	Add Risks and Mitigations	1			DAR First draft	3	Azure Cloud benchmark	4				
	Break up Default Tasks	1					Google Cloud benchmark	4				
	Update efforts on setting up environment	1										
	Specify Dates on Production Deployment	1										
	Align Test Cases with Project Plan	1										
	Add Gantt Chart	2										
Total:		11		12		6		14				
			Authorization Diagram Revision	3			Cloud DAR First draft	2				
Leftover Tasks			Authentication Diagram Revision	3								

			UM Diagram Revision	3					
			Bulk Operation Diagram Revision	3					
			Create Diagram Revision	3					
			Update Diagram Revision	3					
			Delete Diagram Revision	3					
			Disable Diagram Revision	3					
			Enable Diagram Revision	3					
Total:				27		0		2	
Sprint 11									
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)		
Task Breakdown	Code Revision - DAL	5	Authorization Diagram Revision	3	Finalize Front end DAR	5	Cloud hosting DAR first draft	2	
	Code Revision - Logging	5	Authentication Diagram Revision	5			Cloud Data Store DAR	2	
	Code Revision - Archiving	5	UM Diagram Revision	3			Azure Cloud benchmark	4	
			Bulk Operation Diagram Revision	3			AWS Cloud benchmark	4	
			Create Diagram Revision	2			Google Cloud benchmark	4	
			Update Diagram Revision	2					
			Delete Diagram Revision	2					
			Disable Diagram Revision	2					
			Enable Diagram Revision	2					
Total:		15		24		5		16	
Assigned Tasks	Code Revision - DAL	5	Authorization Diagram Revision	3	Front end metric revisions	3	Cloud hosting DAR first draft	2	
	Code Revision - Logging	5	Authentication Diagram Revision	5	front end recommendation	1	Cloud Data Store DAR first draft	2	
	Code Revision - Archiving	5	UM Diagram Revision	3	Front end metric descriptions	1	Azure Cloud benchmark	4	
			Bulk Operation Diagram Revision	3			AWS Cloud benchmark	4	
			Create Diagram Revision	2			Google Cloud benchmark	4	
			Update Diagram Revision	2					
			Delete Diagram Revision	2					
			Disable Diagram Revision	2					
			Enable Diagram Revision	2					
Total:		15		24		5		16	
Leftover Tasks	Code Revision and Testing - Logging	2					Cloud hosting DAR first draft		
	Code Revision and Testing - Archiving	3					Cloud Data Store DAR first draft		
Total:		5				0		2	
Sprint 12									

	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)					
Task Breakdown	Code Revision and Testing - Logging	2	Authentication Test Writeup	2	Registration - Preconfirmation sequence diagrams	10	Database Setup - Creating/Obtaining Connection to database	1				
	Code Revision and Testing - Archiving	3	Authorization Test Writeup	1			Database Setup - Setting up SQL database	1				
	Datastore Access - Connect to Database	1	Authentication Backend Code	4			Connecting Database and ORM	2				
	Datastore Access - Develop layers and Access	3	Authorization Backend Code	3			Cloud Data Store/Database DAR	4				
	UAD - Backend Code	7	Authentication Frontend Code	3			Cloud Hosting DAR	6				
	UAD - Frontend Code	7	Authorization Frontend Code	3			Creating Cloud Hosting Instance	3				
	UAD - Testing	9	UM Test Writeup	2			Creating Cloud Virtual Machine	3				
	Add New Syllabus Information to Project Plan	1	UM Backend Code	4								
			UM Frontend Code	4								
			Revise Authentication Diagrams	3								
			Revise Authorization Diagrams	2								
Total:		32		31		24						
Assigned Tasks	Code Revision and Testing - Logging	2	Authentication Test Writeup	2	Registration - Preconfirmation sequence diagrams	10	Cloud Setup	6				
	Code Revision and Testing - Archiving	3	Authorization Test Writeup	1			Database Setup	2				
	Datastore Access - Connect to Database	1	Authentication Backend Code	4			~~Cloud Data Store/Database DAR~~	4				
	Datastore Access - Develop layers and Access	3	Authorization Backend Code	3			~~Cloud Hosting DAR~~	6				
	UAD - Backend Code	7	UM Test Writeup	2								
	UAD - Testing	9	UM Backend Code	4								
	Add New Syllabus Information to Project Plan	1	Revise Authentication Diagrams	3								
	UAD Sequence Diagrams	6	Revise Authorization Diagrams	2								
Total:		32		21		10		18				
Leftover Tasks	UAD - Frontend Code	7	Authentication Frontend Code	3								
			Authorization Frontend Code	3								
			UM Frontend Code	4								
Total:						0		2				
Sprint 13												
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)		Ian (I)		Ryan (R)	

Task Breakdown	UAD - Design : Sequence Diagrams - Navigate Success	5	Authentication - Sequence Diagrams - Research Cookies and Token	15	Registration - Sequence Diagrams	15	Cloud Data Store DAR Revisions	2	Database Setup - Design	25	Logout-Design	15
	UAD - Design : Sequence Diagrams - Navigate Authorization Failure	2	Authentication - Sequence Diagrams - Cookie/Token Success Case	4	Front End DAR - Revision	3	Cloud Hosting DAR Revisions	2	Database Setup - Implementation	10	Logout-Implementation	20
	UAD - Design : Sequence Diagrams - Navigate View Load Failure	2	Authentication - Sequence Diagrams - Error Cases	4	Registration Test Case Writeup	5	Account Deletion - Design(Sequence Diagram)	5	Database Setup - Testing	10	Logout-Testing	5
	UAD - Design : Sequence Diagrams - KPI Refresh Failure	2	Authentication - Test Writeup	3	Registration - Implementation (backend)	10	Account Deletion - Implementation (Backend)	10	Database Setup - Documentation	3	Logout-Documentation	3
	UAD - Design : Sequence Diagrams - KPI Refresh Totality Failure	2	Authentication - Backend	6	Registration - testing (nbackend)	3	Account Deletion - Implementation (Frontend)	5	Database Setup - Test Case Write-up	5	Logout-Test Case Writeup	5
	UAD - Design : Sequence Diagrams - KPI Refresh Timeout Failure	2					Account Deletion - Frontend Testing	5				
	UAD - Backend Implementation : Navigate View	10					Account Deletion - Backend Testing	5				
	UAD - Backend Implementation : Refresh View	5					Account Deletion - Documentation	3				
	UAD - Backend Testing	5										
Total:		35		32		36		37		53		48
Assigned Tasks	UAD - Design : Sequence Diagrams - Navigate Success	5	Authentication - Sequence Diagrams - Research Cookies and Token	15	Registration - Sequence Diagrams	15	Cloud Data Store DAR Revisions	2	Database Setup - Design	25	Logout-Design	15
	UAD - Design : Sequence Diagrams - Navigate Authorization Failure	2	Authentication - Sequence Diagrams - Cookie/Token Success Case	4	Front End DAR - Revision	3	Cloud Hosting DAR Revisions	2	Database Setup - Implementation	10	Logout-Implementation	20
	UAD - Design : Sequence Diagrams - Navigate View Load Failure	2	Authentication - Sequence Diagrams - Error Cases	4	Registration Test Case Writeup	5	Account Deletion - Design(Sequence Diagram)	5	Database Setup - Testing	10	Logout-Testing	5
	UAD - Design : Sequence Diagrams - KPI Refresh Failure	2			Registration - Implementation (backend)	10	Account Deletion - Implementation (Backend)	10	Database Setup - Documentation	3	Logout-Documentation	3
	UAD - Design : Sequence Diagrams - KPI Refresh Totality Failure	2			Registration - testing (nbackend)	3	Account Deletion - Implementation (Frontend)	5	Database Setup - Test Case Write-up	5	Logout-Test Case Writeup	5
	UAD - Design : Sequence Diagrams - KPI Refresh Timeout Failure	2					Account Deletion - Frontend Testing	5				
	UAD - Backend Implementation : Navigate View	10					Account Deletion - Backend Testing	5				
	UAD - Backend Implementation : Refresh View	5					Account Deletion - Documentation	3				
	UAD - Backend Testing	5										
Total:		35		23		36		37		53		48
Leftover Tasks	UAD - Backend Testing	5	Authentication - Test Writeup	1.5	Registration Test Case Writeup	5	Account Deletion - Coding, Implementation, testing	8				
	UAD - Backend Implementation : Navigate View	10	Authentication - Backend	6	Registration - Testing	3						
	UAD - Backend Implementation : Refresh View	2			Registration - implementation (create account, confirm account)	5						

Total:		17						2		2	
Sprint 14											
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)		Ian (I)		Ryan (R)
Task Breakdown	UAD - Backend Testing	5	~~Request OTP - Test Writeup~~	~~2~~	Registration Test Case Writeup	5	Account Deletion - Implementation (Backend)	8	Datastore Access - Design	30	
	UAD - Backend Implementation : Navigate View	10	~~Authentication - Test Writeup~~	~~2~~	Registration - Testing	3	Account Deletion - Implementation (Frontend)	5	Datastore Access - Implementation	10	
	UAD - Backend Implementation : Refresh View	2	~~Authorization - Test Writeup~~	~~2~~	Registration - implementation (create account, confirm account) backend	5	Account Deletion - Frontend Testing	3	Datastore Access - Testing	15	
	UAD - Frontend Testing	5	~~Request OTP Backend~~	~~4~~	Registration - implementation (front end)	10	Account Deletion - Backend Testing	3	Datastore Access - Documentation	3	
	UAD - Frontend Implementation	5	~~Authentication Backend~~	~~5~~	Registration - documentation	3	Account Deletion - Documentation	3	Database Setup - Implementation - Ian's Tables	5	
	UAD - Documentation	3	~~Authorization Backend~~	~~4~~	Registration - testing frontend	2					
	Logout - Design	5	~~Request OTP Backend Testing~~	~~3~~	AJAX DAR	3					
	Logout - Test Writeup	3	~~Authentication Backend Testing~~	~~4~~							
	Logout - Backend Implementation	5	~~Authorization Backend Testing~~	~~1~~							
	Logout - Backend Testing	2	~~Request OTP Frontend~~	~~4~~							
	Logout - Frontend Implementation	3	~~Authentication Frontend~~	~~6~~							
	Logout - Frontend Testing	2	~~Authentication Frontend Testing~~	~~2~~							
			~~Request OTP Frontend Testing~~	~~2~~							
			~~Authentication Documentation~~	~~3~~							
			~~PBKDF2 Frontend DAR~~	~~8~~							
Total:		35		52		31				58	
Assigned Tasks	UAD - Backend Testing	5	~~Request OTP - Test Writeup~~	~~2~~	Registration Test Case Writeup	5	Account Deletion - Implementation (Backend)	8	Datastore Access - Design	20	
	UAD - Backend Implementation : Navigate View	10	~~Authentication - Test Writeup~~	~~2~~	Registration - Testing	3	Account Deletion - Implementation (Frontend)	5	Datastore Access - Implementation	7	
	UAD - Backend Implementation : Refresh View	2	~~Authorization - Test Writeup~~	~~2~~	Registration - implementation (create account, confirm account) backend	5	Account Deletion - Frontend Testing	3	Datastore Access - Testing	5	
	UAD - Frontend Testing	5	~~Request OTP Backend~~	~~4~~	Registration - implementation (front end)	10	Account Deletion - Backend Testing	3	Datastore Access - Documentation	2	
	UAD - Frontend Implementation	5	~~Authentication Backend~~	~~5~~	Registration - documentation	3	Account Deletion - Documentation	3	Database Setup - Implementation - Ian's Tables	5	
	UAD - Documentation	3	~~Authorization Backend~~	~~4~~	Registration - testing frontend	2	Datastore Access - Design	10			
	Logout - Design	5	~~Request OTP Backend Testing~~	~~3~~			Datastore Access - Implementation	3			
	Logout - Test Writeup	3	~~Authentication Backend Testing~~	~~4~~	Account Deletion - Implementation (Frontend)	5	Datastore Access - Testing	5			
	Logout - Backend Implementation	5	~~Authorization Backend Testing~~	~~1~~	Logout - Frontend Testing	2	Datastore Access - Documentation	1			
	Logout - Backend Testing	2	Request OTP Frontend	4	Ajax DAR	3					
	Logout - Frontend Implementation	3	Authentication Frontend	6							
			Authentication Frontend Testing	2							
			Request OTP Frontend Testing	2							
			Authentication Documentation	3							
			~~PBKDF2 Frontend DAR~~	~~8~~							
Total:		50		52		38		41		39	
Leftover Tasks	UAD - Backend Testing	2	Request OTP Frontend	4			Account Deletion - Backend Testing	3	Datastore Access	3	
	UAD - Frontend Implementation	5	Authentication Frontend	6			Account Deletion - Documentation	3			

	UAD - Frontend Testing	5	Authentication Frontend Testing	2			Account Deletion - Implementation (Frontend)	5				
	UAD Documentation	3	Request OTP Frontend Testing	2			Account Deletion - Frontend Testing	3				
			Authentication Documentation	3								
Total:		15										
Sprint 15												
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)		Ian (I)		Ryan (R)	
Task Breakdown	UAD - Backend Testing	2	Authentication Frontend	4			Account Deletion - Backend Testing	3	Datastore Access - Testing	3		
	UAD - Frontend Implementation	5	Authentication Frontend Testing	4	Registration - testing frontend	2	Account Deletion - Documentation	3	Tree History - Design	40		
	UAD - Frontend Testing	2	Authentication Documentation	1	Tagging-Sequence Diagramas	15	Account Deletion - Implementation (Frontend)	5				
	UAD - Documentation	2	Middleware Authentication/Authorization Code	3	Registration Frontend Testing	2	Account Deletion - Frontend Testing	3				
	Create Node - Design	15	Middleware Authentication/Authorization Testing	6	Registration Documentation	3	Setting nodes private/public - Design (Sequence diagram)	8				
	Create Node - Backend	10	Request OTP Frontend	1	Recovery - Sequence Diagrams	10	Setting nodes private/public - Implementation(backend)	5				
	Create Node - Backend Testing	5	Request OTP Frontend Testing	2	Recovery - Backend Implementation	20	Setting nodes private/public - Implementation(frontend)	10				
	Create Node - Frontend Implementation	6	Request OTP Documentation	1			Setting nodes private/public - Backend Testing	5				
			Logout Design	2								
			Logout Frontend	1								
			Logout Frontend Testing	2								
			Logout Documentation	1								
			Logging Backend	3								
			Logging Backend Testing	5								
			Archiving Backend	4								
			Archiving Backend Testing	6								
			7Zip DAR	4								
Total:		47		50		52						
Assigned Tasks	UAD - Backend Testing	2	Authentication Frontend	4			Account Deletion - Backend Testing	5	Datastore Access - Testing	3		
	UAD - Frontend Implementation	5	Authentication Frontend Testing	4	Registration - testing frontend	2	Account Deletion - Documentation	5	Tree History - Design - Database	10		
	UAD - Documentation	2	Authentication Documentation	1	Tagging-Sequence Diagramas	15	Account Deletion - Implementation (Frontend)	5	Tree History - Design - Diagrams	30		
	UAD - Frontend Testing	2	Middleware Authentication/Authorization Code	3	Registration Frontend Testing	2	Account Deletion - Frontend Testing	5				
	Create Node - Design	15	Middleware Authentication/Authorization Testing	6	Registration Documentation	3	UM - Implementation (Backend)	4.5				
	Create Node - Backend	10	Request OTP Frontend	1	Recovery - Sequence Diagrams	10	UM - Implementation (Frontend)	4.5				
	Create Node - Backend Testing	5	Request OTP Frontend Testing	2	Recovery - Backend Implementation	20	UM - Backend testing	3				
	Create Node - Frontend Implementation	10	Request OTP Documentation	1			UM - Frontend testing	3				
			Logout Design	2			**Account Deletion - Backend Revisions**	**10**				

			Logout Frontend	1								
			Logout Frontend Testing	2								
			Logout Documentation	1								
			Logging Backend	3								
			Logging Backend Testing	5								
			Archiving Backend	4								
			Archiving Backend Testing	6								
			7Zip DAR	4								
Total:		51		50				45		40		
Leftover Tasks	UAD Frontend Testing	2					Account Deletion - Backend Testing	5	Tree History - Design			
	Create Node Backend	10					Account Deletion - Documentation	5				
	Create Node Backend Testing	5					Account Deletion - Implementation (Frontend)	2				
	Create Node - Frontend Implementation	10					Account Deletion - Frontend Testing	2				
							UM - Implementation (Backend)	4.5				
							UM - Implementation (Frontend)	4.5				
							UM - Backend testing	3				
							UM - Frontend testing	3				
Total:												
Sprint 16												
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)		Ian (I)		Ryan (R)	
Task Breakdown	UAD Frontend Testing	2	Test Token Authentication	5	Recovery - front end implementation	7	Account Deletion - Backend Revisions	6	Tree History - Backend	30		
	UAD Documentation	3	Setup Token Authentication Middleware	4	Recovery - backend test writeup	5	Account Deletion - Backend Testing	5	Tree History - Backend Testing	10		
	Create Node Backend	10	Revise Authentication to store Token and attach Token to header of response	2	Recovery - backend testing	3	Account Deletion - Documentation	5	Tree History - Design	7		
	Create Node Backend Testing	5	Revise Accounts table to have Token column	1	Recovery - frontend testing	2	Account Deletion - Implementation (Frontend)	2	Database Access - Turn DAO into async	4		
	Create Node Frontend Implementation	10	Research Token Authentication	4	Recovery - documentation	3	Account Deletion - Frontend Testing	2				
	Create Node Frontend Testing	5	Authorization - Add Check for Correct User	2	Tagging - backed implementation	10	UM - Design	5				
	Create Node Documentation	3	Setup DI Container for Tests	4	Production Environment Setup	10	UM - Backend Testing	5				
	Nivo DAR Revisions	1	Test DI Container Tests	2	Registration - backend revision	2	UM - Backend implementation	5				
	Delete Node Design	5	Archiving - Rollback functionality	3			Merge to Main	5				
			Search - Sequence Diagram Success Case	10								
			Merge to Main	3								
			Test Main	3								
Total:		44		43		42		40		0		

Assigned Tasks	UAD Frontend Testing	2	Test Token Authentication	5					Tree HIstory-Backend	30		
	UAD Documentation	3	Setup Token Authentication Middleware	4					Tree History-Backend Testing	10		
	Create Node Backend	10	Revise Authentication to store Token and attach Token to header of response	2					Tree History - Design - Database	3		
	Create Node Backend Testing	5	Revise Accounts table to have Token column	1					Tree History - Design - Diagrams	4		
	Create Node Frontend Implementation	10	Research Token Authentication	4					Database Access - Turn DAO into async	4		
	Create Node Frontend Testing	5	Authorization - Add Check for Correct User	2								
	Create Node Documentation	3	Setup DI Container for Tests	4								
	Nivo DAR Revisions	1	Test DI Container Tests	2								
	Delete Node Design	5	Archiving - Rollback functionality	3								
			Search - Sequence Diagram Success Case	10								
			Merge to Main	3								
			Test Main	3								
Total:		44		43				45		4		
Leftover Tasks	Create Node Backend Implementation (Finish)	5							Tree History-Backend Testing			
Total:												
Sprint 17												
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)		Ian (I)		Ryan (R)	
Task Breakdown	Create Node - Frontend (Finish)	2	Create separate log table for analytical logs and archiveable/error logs	1	Tagging - Front end	15	Account Deletion - Frontend, Frontend Testing, Documentation	5	Tree HIstory-Backend Testing	5		
	Create Node - Frontend Testing	5	Add hash column and destination parameter to logging	1	Tagging - Test Writeup	3	Account Deletion - Backend testing	8	Tree History-Frontend	30		
	Delete Node - Design	5	Change archiving to only archive unused logs table	1	Tagging-Testing	2	Copy Node Design	8	Tree History-Frontend Testing	16		
	Delete Node - Backend	5	Revise Authentication, Authorization, OTP Request regarding new UserHash table	3	Tagging - Documentation	3	Copy Node Test Writeup	5				
	Delete Node - Backend Testing	5	Search - Success Diagram Revisions	4	Rating - Sequence Diagram	10	Copy Node Backend Implementation	10				
	Delete Node - Frontend	10	Search - Error Diagrams	12	Rating - Backend	10	Copy Node Backend Testing	5				

	Delete Node - Frontend Testing	7	Search - Initial Test Writeup	4	Routing DAR	1	Copy Node Frontend Implementation	15				
	Delete Node - Documentation	2	Search - Backend	16	Search Bar DAR	1	Copy Node Frontend Testing	2				
	UAD Revisions	2	Search - Backend Testing	16								
	Merge	2	Search - Front End	16								
			Search - Frontend Testing	16								
			Merge	4								
Total:		45		94		45						
Assigned Tasks	Create Node - Frontend (Finish)	2	Create separate log table for analytical logs and archiveable/error logs	1	Tagging - Front end	15	Account Deletion - Frontend, Frontend Testing, Documentation	5	Tree HIstory-Backend Testing	5		
	Create Node - Frontend Testing	5	Add hash column and destination parameter to logging	1	Tagging - Test Writeup	3	Account Deletion - Backend testing	5	Tree History-Frontend	30		
	Delete Node - Design	5	Change archiving to only archive unused logs table	1	Tagging-Testing	2	Copy Node Design	8	Tree History-Frontend Testing	16		
	Delete Node - Backend	5	Revise Authentication, Authorization, OTP Request regarding new UserHash table	3	Tagging - Documentation	3	Copy Node Test Writeup	5				
	Delete Node - Backend Testing	5	Search - Success Diagram Revisions	4	Rating - Sequence Diagram	10	Copy Node Backend Implementation	10				
	Delete Node - Frontend	10	Search - Error Diagrams	12	Rating - Backend	10	Copy Node Backend Testing	5				
	Delete Node - Frontend Testing	7	Search - Initial Test Writeup	4	Routing DAR	1	Copy Node Frontend Implementation	15				
	Delete Node - Documentation	2	Search - Backend	16	Search Bar DAR	1	Copy Node Frontend Testing	2				
	UAD Revisions	2	Search - Backend Testing	16								
	Merge	2	Merge	4								
Total:		45		62		43						
Leftover Tasks	UAD Revisions	2	Search - Front End	16			Copy Node Design	8	Tree History-Frontend Testing	8		
	Create Node - Frontend (Finish)	2	Search - Frontend Testing	16			Copy Node Test Writeup	5				
	Create Node - Frontend Testing	5					Copy Node Backend Implementation	10				
	Delete Node - Frontend	3					Copy Node Backend Testing	5				
	Delete Node - Frontend Testing	7					Copy Node Frontend Implementation	15				
							Copy Node Frontend Testing	2				
Total:		14		32								
Sprint 18												
	Jessie (J)		Matthew (M)		Pammy(P)		Viet (V)		Ian (I)			
Task Breakdown	Tree Management Backend	10	Search - Backend	6	Merge to Production	5	Copy Design	4	Tree History-Frontend Testing	12		
	UAD Revisions	2	Search - Backend Testing	6	Tree Component - Revisions	7	Copy Backend implementation	10	Tree History - Draft Code Review Presentation	20		
	Create Node - Frontend (Finish)	2	Search - Front End	16	Tagging - Frontend Revisions	12	Copy Backend testing	3	Tree History - Documentation	15		
	Create Node - Frontend Testing	5	Search - Frontend Testing	16	Tagging - Backend Revisions	5	Copy Frontend Implementation	5				
	Delete Node - Frontend	3	Search Documentation	3	Tagging - Testing Revisions	6	Copy Frontend Testing	5				
	Delete Node - Frontend Testing	7	Merge	6	Tagging - documentation Revisions	5	Paste Design	5				

	Changing Parent of Node - Design	10	Logout Frontend Revisions	6	Set up Production Environment	8	Paste Backend implementation	10				
	Changing Parent of Node Backend	12	Logout Documentation	2	Frontend - Portal	15	Paste Backend testing	5				
	Changing Parent of Node Frontend	15	Authentication Documentation	2			Paste Frontend Implementation	10				
	Changing Parent of Node Documentation	2	Authorization - Frontend JWT Checks	6			Paste Frontend Testing	5				
			Authorization Documentation	2								
			Logging/Archiving Documentation	2								
Total:		68		73		63						
Assigned Tasks			Search - Backend	6			Copy Design	4				
			Search - Backend Testing	6			Copy Backend implementation	10				
			Search - Front End	16			Copy Backend testing	3				
			Search - Frontend Testing	16			Copy Frontend Implementation	5				
			Search Documentation	3			Copy Frontend Testing	5				
			Merge	6			Paste Design	5				
			Logout Frontend Revisions	6			Paste Backend implementation	10				
			Logout Documentation	2			Paste Backend testing	5				
			Authentication Documentation	2			Paste Frontend Implementation	10				
			Authorization - Frontend JWT Checks	6			Paste Frontend Testing	5				
			Authorization Documentation	2								
			Logging/Archiving Documentation	2								
Total:				73								
Leftover Tasks												
Total:				0								

Sprint 5				
	Jessie	Matthew	Pammy	Viet
What went well	Through feedback and office hours we were able to refine our Scrum process by being more detailed	We acted on some of the feedback on our Scrum, this can be seen in our new project sheets.	Our scrum process was much more refined than last time, thanks to the feedback provided in our last retrospective and in office hours.	We got a lot of feedback from office hours and improved how we performed scrum
Issues	Low sprint capacities as well as unexpected interruptions from other classes	We were still missing some things from showing off our sprint planning process and everyone's capacities were quite low for this sprint. We did not have a set time for updating our burnup charts, which resulted in some mismatched charts and it	Low sprint capacities made us not able to do much. We were pretty inconsistent with out burnup chart.	Some people were busy with classes (me included) so it made it hard to finish tasks that were assigned this sprint
Improvements	Update scrums and burnup charts at 11pm everyday	We will have all of our burnup chart updates and Scrums posted by 11pm everyday.	Burnup charts and scrumwill be required to be posted by 11 PM everyday	We now have a set time to update our scrums and burnup charts

Sprint 6				
	Jessie	Matthew	Pammy	Viet
What went well	More strict enforcement of Daily Scrum Logs and Burnup chart updates gave better insight into Team Progress	We improved our Sprint planning process by following all the steps that we discussed with the professor during office hours. This can be seen in our new Project Sheet Document. We improved the documenting of our daily Scrums and updating our Burnup Charts by setting a deadline of 11pm.	Burnup charts and scrum updated at 11pm every night. This in turn made our Project Sheet Document more accuarte.	Our scrum process was more in line with what Professor had in mine
Issues	Work capacities were fairly low due to other issues that had presented themselves	Despite getting everyones initial capacities, issues arose that resulted in less work than predicted.	Low initial capacities and low moral.	Other classes started kicking in, and I had less time capacities
Improvements	Team Lead will send reminders and a report of the daily performance	Everyday at the end of our daily meetings, the team leader will send out a notification in regards to everyone's daily performance, according to their burnup charts and daily Scrums, and what improvements they need to make in the remaining time of the sprint.	Team leader will send a notification on daily performance, reminders on burnup charts and daily scrums	Our team lead would give a daily performance report at the end of our scrums

Sprint 7				
	Jessie	Matthew	Pammy	Viet
What went well	The team was able to complete most of the work we had for this Sprint despite any issues that presented themselves	Despite the issues that we ran into, the team was able to mostly complete all of the work that we brought in for this sprint. We also made further adjustments to our project and sprint planning.		Even though we ran into problems, the team as a whole was able to finish up a lot of the work that was assigned this sprint
Issues	Timing with other class assignments created problems completing assigned work on time	At the start of the sprint, we were still unsure of what exactly we needed to be doing in order to work towards the completion of Milestone 3. Once again, we ran into slight issues with capacities due to outside factors such as other classes. Not everyone was complying with the deadlines for Scrums and Burnup chart updates.	Issues in understanding what was needed in low level design prevented us from really contributing much this sprint. In general, this is due to a lack of information on what is needed	I was behind on my backlog, and busy working on other classes, I did not get much done in my sprint
Improvements	Improved task breakdown through discussion of work items and tasks during meetings to allow for better allocation of time thereby preventing any time creep	Team lead will send continue to send out notifications for posting Scrums and updating burnup charts by the designated time in addition to the notification regarding everyone's daily performance. Team lead will individually contact members who forget to post their Scrums and update burnup charts by the designated time.	Go to office hours and clarify everything that is needed	Our team leader will send out multiple notifications a day, more often after scrums for the team to update the burnup chart

Sprint 8				
	Jessie	Matthew	Pammy	Viet
What went well	Considering the fact that it was a break we were able to effectively plan and get to a decent amount of work	We we're able to get an alright amount of work done, considering it was a break, and we also learned a lot about LL design from the bonus lecture.	Team made a more conscious effort to attend every office hours	I got an adequate amount of work during break, and learned sequence diagrams and how to create them. I was also able to hash out ideas with my teamates
Issues	As it was break we admitetly did not get to complete as much as we would have liked to	It was a break week, so we weren't able to get as much done as we would have normally gotten done or planned to do.	Was not able to do much due to break	It was a sprint through break, so obviously we couldn't get that much work done but we did some good information and stuff done for milestone 3
Improvements	Be more aware of the amount of work that will get done during breaks and give more appropriate estimates and assignments of work	Take better consideration of the the fact that breaks usually mean people will get less work done, so in the future we will apply a default deduction to everyone's expected capacity in order to provide ourselves a better buffer.	Take low capacities due to break. We need to take account to this otherwise we will assign work that cannot be done	don't try to assign too much work during a break, since we know not much work will get done. This will be different from christmas break though, because we have free time and our main priority will to get a headstart on the project. We will have sprints throughout break, but with reasonable capacities

Sprint 9				
	Jessie	Matthew	Pammy	Viet

What went well	We were able to devote a good amount of time towards finishing the Milestone and Sprint putting in however many hours were necessary.	For the most part, the team was able to put in a lot of time in order to finish the Milestone. We were able to finish the design of all the Milestone items and code a majority of them.	We were able finish all the milestone documents as well as the sequence diagrams for the milestone. I think we got a good idea as a time how much effort will be needeed to complete this project	We were able to get all the required documents and diagrams done for milestone 3		
Issues	Our work as not as complete as it could have been and there were some issues in our design that we were not aware of until after we had implemented it.	We had some issues with our diagrams that we only became aware of after actually coding. We did not have sufficient unit tests and not everything worked by the due date. Due to other finals, as well as personal reasons, capacity took a down turn during some moments.	We were not able to complete the work we assigned to us as our design had a lot of issues. We were not aware of the issues until after we implemented. These issues included libraries that pointed to each other	We underestimated issues in both design and coding and were rushed towards the end and our deliverable wasn't the as clean as it could have been		
Improvements	As a team we realized how our capacities need to increase as more work in the future is going to require more dedication to the class. We will also spend more time on design as flawed designs will impact later work.	After having gone through the process of creating the Milestone 3 items, we are more aware of how much work we can expect in the future, so we will be able to give better estimates when the time comes. Put more time into design and researching technology so we can try and avoid running into similar issues and check with the professor more often about our designs.	As a team we realized that we will need to put more time into design as this is something that will have future consequences. Therefore we will be attending office hours more frequently to discuss our designs	We will ask Professor about how to streamline our breakdowns and design to not run into issues, and also perform breakdowns with a little bit more of a buffer in order to account for said issues		
Sprint 10						
	Jessie	Matthew	Pammy	Viet		
What went well	We had fixed Milestone 3 Work Items as they were needed	We were able to make some of the necessary revisions to some Milestone 3 items.	Was able to make revisions to milestone 3 items.	We made considerable progress on our cloud technologies due to past work from group members and were able to create instances and databases		
Issues	Since it was the first sprint after the end of the semester, team members had a fairly low capacity.	This was our first sprint after the end of the semester, so everyone was at a low capacity.	Realllyyyyy low capacity due to break. Not really an issue as we don't really have any work items beside next semesters planning	This was our sprint in winter break after taking time off, so all our capacities were low and we were rusty getting back into the process.		
Improvements	We will change the sprint schedule so that it better fits team members' schedules as well as meeting times.	In our future sprints we will be upping our capacity so that once the semester starts, we will be good to go. We will also be trying out different sprint schedules and meeting times in preparation for the coming semester.	No improvements needed to be made	We will be reupping our capacities by at least 1/2 and review our past sprints in order to get back into the groove of things .		
Sprint 11						
	Jessie	Matthew	Pammy	Viet		
What went well	The team was able to increase their sprint capacities and we did a good job at meeting those capacities	Almost everyone was able to up their capacity more and hit them. We were able to make good progress in revising more Milestone 3 items as well as working on finishing DARs.	Most of us were able to hit our sprint capacities which meant we were able to improve from our last sprint	We all increased our sprint capacity and were able to do much more work than our last sprint.		
Issues	Although there was an increase, we were not yet at our desired sprint capacity that we would like to have seen for this semester	This was our second sprint after the end of the semester, so our capacities were still lower than what we wanted.	Some of us were sick as well as winding down from a semester so we weren't able to do much	We weren't at our optimal capacities during the school year, and I had contracted COVID and had to take care of family members, so I was not able to do as much work as I would have liked		
Improvements	We will increase our sprint capacity that way we can have better alotment of tasks	We will continue to work on upping our capacity.	I don't think we have to improve much as our issues were due it being break as well as not really any work items to work on	Getting sick was unavoidable, but I will reestimate capacities. I also spent excess time on DARs, so I will send more frequent emails to clarify confusion instead of wasting time		
Sprint 12						
	Jessie	Matthew	Pammy	Viet		
What went well	We were able to make the necessary adjustments and revisions to the Project Plan	We were able to finish making revisions to our project plan as needed.	We were able revise the project plan and BRD	Our team did well under pressure by revising the project plan in the short amount of time we were given, as we had to push many work items back and make space for new work items		
Issues	Re-estimations of work items caused a realization of there being more work we need to do. Also being the first sprint of the semester, capacities were fairly low.	This was our first sprint of the semster, but our capacities were still a bit on the low side. Some of our items we realized would take longer than estimated, and that we also had to make changes to account for new information that the professor lectured on.	We had to split up the features among our group again as are group expanded. We were not really sure of what our estimations would look like. We also did not put in enough into our sprint capacity as we were still in winter break.	Certain things were rushed in the revision of the project plan because our BRD also had to be revised, and so our project plan estimation is not as accurate as it could have been. It was also our first sprint hitting the ground running since the break, so our capacities were suddenly spiked and it made it hard to hit said capacities.		
Improvements	The team will continue increasing their sprint capacity to what we need it to be. We will also follow the Project Plan more closely that way we can be efficient in the work delegated to team members.	We will continue upping our capacity so that we can adhere as best we can to the project plan. We will try to estimate better how much work things should take, also taking into consideration what the professor might be lecturing on.	We will increase capacity as well as get a better feel of what the team can do for our estimations.	Improvements that could be made are to slowly ramp up capactiies, because otherwise the sudden increase of capacities would be hard to hit. An improvement would be to add 1 or 2 hours of capacity everyday for the duration of the sprint, and depending on how those capacities are hit we can continue increasing.		
Sprint 13						
	Jessie	Matthew	Pammy	Viet	Ian Ho-Sing-Loy	Ryan
What went well	Throughout this sprint I was able to have a much better scheduling of work due to the revised Project Plan that was much more detailed in the breakdowns as well as the reevaluations of work items.	During this sprint, I was able to get a solid understanding of the requirements for Authentication and what exactly needs to be done for this core component. Almost everyone went to most of the available office hours and were able to get a lot of questions answered and feedback from the professor.	I think I was able to really understand how much work will go into a single feature (planning, implementnig, testing). Most of the team was able to meet daily as well as attend office hours.	Our team was able to get our cloud DARs approved, which were leftover from last sprint. Those were crucial because we need those technologies order to set up the database and VMs, and to store and deploy our application. I was also able to get a good understanding of account deletion and how to delete all references of the account by performing a stored procedure.	This is my first completed sprint with my new team. I understand the SCRUM methodology better than my previous attempt. I managed to get the tables and UML model. I managed to get the business rules and requirements from most of my teammates and managed to implement them in the tables. Getting used to the daily meetings and slowly getting used to the accountability was the best thing for me.	

Issues	This sprint I had issues with the sequence diagram designs for the Usage Analysis Dashboard as I was not necessarily clear on all aspects of the core component, in addition I was not sure how certain aspects of the design would be shown in the sequence diagrams. I was also not able to make it to office hours as much as I would have liked to, therefore any questions that I had about design had me blocked until I recieved help from teammates. Due to these issues I was not able to complete all assigned tasks in this sprint (testing writeup and backend implementation), therefore I must carry it over to the next sprint.	Because I did not have a solid grasp of what exactly was needed for Authentication and how to put the parts together, I spent a lot more time on research, diagraming, and getting feedback on the flow during office hours, which resulted in my being unable to complete the test writeup and backend code for Authentication. An issue that we had overall as a team was along the same lines. I would say that almost everyone needed to get more clarification on how best to design their component, which resulted in more time designing and researching, and less time implementing. These reasons are why some people were not able to finish the coding that we had previously planned to do. Another issue is that Ryan has not been attending meetings (the last meeting he attended was last Sunday, so an entire week ago), he has not attended almost any office hours, and he has not been keeping me updated on his work progress. In addition, he did not update his burn up charts with his daily work, nor did he provide his forecast burn for the sprint, which is why the burnup chart for this sprint is so messed up (forecast burn is lacking and overall team work is even lower with the addition of the previously mentiond issues)During one of the previous office hours, I talked with the professor on how to deal with the situation, and conveyed his words to Ryan, albeit over text since I was still unable to get him to meet with me.	I really underestimated my estimated hours that would be needed to design and implement the requirement feature. I spent most of my time designing and writing the DAR (understanding and testing). This left some work leftover for the next sprint that I will have to make up for. The rest of the team had the same issues with not allocating enough time to implement the project and spending more time on the design portion. We also had issues with a member not joining daily meetings as well as a general lack of communication.	I had remaining work from last sprint leftover, and that also seems to be the case for this sprint as well. The design portion of my core component took much more time than expected, so backend implementation has been pushed back to next sprint. That caused me to miss my points target by a lot since i wasn't able to get to backend implementation. I also had to spend almost half of my sprint finishing the cloud DARs, as creating and estimating metrics took longer than expected. I prioritized the DARs since they were leftover from last sprint, but that caused the chain effect of me now pushing back this sprint's work to next sprint, and so on. The design for the account deletion also came along slow because I was only able to make half of the office hours meeting this sprint due to other matters.	Despite my successes, I need to catch up with the ASP.NET framework. I need to read up on it to prepare for my feature. Since I joined this team, I spent a significant portion of the sprint understanding what all the components of the application do. I had to spend time with my teammates going over what they need for their feature. Communications with my teammates was not perfect, especially those who do not communicate readily. Part of creating the tables was hampered because I was not aware of one of my teammates work schedule rendered him unavailable for the majority of the week. I also overestimated how much I could do for the two week period of the sprint. I also had a slow start which meant for me more cramming in the second week of the sprint.	
Improvements	In the future, I will try and attend more office hours with presentable work so that I may recieve feedback and answers to any questions that I may have that are causing me to be blocked in my work.	In the future, I will be allocating even more time to research and design as when I am able to fully understand what needs to be done, I am able to create a design that is easily convertable to code and ultimately spend less time coding. I will also be trying to attend every office hours and work to have something to show at each in order to get further feedback so that I can keep constant track of my progress. We will be discussing Ryan's situation with the professor during Monday's team review.	I will estimate more hours that will be needed. I've allocated more time in my personal life to work on my estimated work items. As such, I've increased my capacity for the next sprint.	In the future, I will do my best to attend all office hours, and also come with a draft and questions, because not only will I get feedback on my draft, but it will also branch off into other related topics or details which were not considered before. I will also be dedicating much more time on design with the professor and my team in order to quickly finalize design to code things up.	I will attend more office hours with questions. I will prioritize the task items in the sprint more in the early days of the sprint. I will also read more into ASP.NET and get myself up to speed.	
Sprint 14						
	Jessie	Matthew	Pammy	Viet	Ian Ho-Sing-Loy	Ryan
What went well	Was able to work at a capacity higher than previous sprints	I was able to get the backend for all of my components done and tested for functionality.	Was able to finish my front end and my backend	I was able to get certain parts of my components done	I was able to get my parts of the InMemoryDAO and SQLDAO setup more or less.	

Issues	Issues that caused a delay of progress was having to take a lot of time to work on additional SqlDAO and InMemorySQLDAO methods in order for my component of UAD to work. In addition the methods that had been implemented for the UAD weren't functional and I had to spend time fixing their logic. Another issue that came was a relatively late decision to change Column names in the database because that caused an additonal sweep of changes that needed to be done in order to fix the SqlDAO.	Some issues that I ran into were testing different libraries for the PBKDF2 DAR and solving problems from pushing and pulling from GitHub. Another thing was that my reestimate for the amount of time needed to complete the backend for my components was an underestimate. I was only taking into consideration the time for the functionality with the Sql Database, and did not consider the amount of time needed in order to test my components In Memory. No one on our team was able to fully complete their component within the time of the sprint. Although I was over in my capacity, it was due to my having underestimated the work for the backend and the DAR and having to put in more work for those tasks. Despite having accepted the of work that he did during our sprint planning for this sprint, Jessie did not hit his capacity, nor did he complete his work items. He partially completed the backend for UAD, did not get to any frontend, and did not do anything for the logout component. Part of the reason is due to his job. Pammy also did not hit her capacity, nor did she complete all her tasks. For the most part, she completed her Registration component, only left with a little bit of the front end and actually connected through the middleware (which was not completed yet), but did not get to her other tasks in helping to implement the front end for other components (but she was only assigned these additional frontend tasks in order to get her to her estimated capacity and the backend for these components was not complete yet either). Part of the reason is due to her having family emergencies during the sprint. Viet also did not his capacity and did not complete his component. His actual indicated completed capacity should be lower as he did not in fact do any front end work for his work item during the sprint, despite having indicated so on his burnup chart. He partially completed the backend for his Logout component, but did not get to his front end, and he did not complete all the tasks for the DAO that he was given in order to reach his estimated capacity. Ian indicated that he hit his capacity and his estimates for all his tasks, but he still has testing left to do.	Ran into a couple issues with family emergency but managed to finish my part of the project. I was not able to do other group members front ends because they did not finish their backend in time. Or in some cases was asked to make a front end within hours of the project being due. I had to spend some extra time on DARS that were not originally accounted for (AJAX) as well as issues with cross origin resource sharing. We had an issue with the front end and the backend not wanting to communcate with each other. In regards to connecting to the middleware, I was not able to connect to it because it was not finished by a reasonable time before the sprint ended. Additionally, there were changes made to the database relatively late in the sprint that affected my code, therefore, I had to account more time into making sure that my SQL DAO accounted for those changes. We also had an issue with our project corrupting due to github mistakes	I ran into issues of overestimating my capacity as backend implementation took much longer than I expected, and I had to spend a lot of time debugging and fixing errors. I also happened to get sick again, which brought down the capacities of 2 days near the end of the sprint, which were vital for getting my component done or near close to done. I also switched over to DAO tasks, but then was told to switch back to my assigned work item a few days after. The name changes made to the tables by Matthew were a huge issue to deal with, since we had already used those names in our code and I had to stop working on my component and spend 2-3 hours fixing up column names because he would only change the tables that he needed. The name changes weren't a pressing issue since we had more important work to get done, but was a major roadblock since he was adamant on changing them for maintainability, which could easily have been done after the team code review. Ian's table design was also problematic, as certain tables had almost identical field names to other tables, and certain primary and foreign key constraints were not made properly. I had to spend more time than expected fixing up those tables, and all team members besides Matthew had to go back and change up the names in their code. I did discuss and set up my front end with Pammy, so I indicated that I did work on it on my burnup chart, however the changes weren't uploaded to github since we were having major merge issues.	The issues this time were more related to communication. I had a fear that I was doing duplicate work. That held me back a little. Thankfully, I was able to clarify my other teammates did that did not exactly affect my work. Still, I need to communicate better with my teammates about work I have done and work that they have done. Another thing that threw me off was the in memory dao. While doing the estimates, I did not take into account implementing and testing the in memroy dao. I at first did not know exactly what entailed an in memory dao. Afterwards, it was simpler than I thought. It still took me time to test out the in memory dao and sql dao. All of that took more time than estimated.	
Improvements	I will take better consideration how long unit and integration testing can be and devote more time a day so that high sprint capacities aren't an issue	I will take into consideration the amount of time needed for both integration and unit testability for backend work when making my estimates. In order to		I will lower my capacity by 5 and reestimate the work in my sprints so that I will be able to get work done to prevent this issue from happening again	Now that I have done some unit testing, I will be able to provide better estimates of unit testing in the future.	
			Sprint 15			
	Jessie	Matthew	Pammy	Viet	Ian Ho-Sing-Loy	Ryan
What went well	I was able to implement new changes we needed to make to our backend and became more familiar with the process of implementation therefore future Backend Implementations should be more straight forward	I was able to meet my capacity for this sprint in regards to all my work items. I got lots of questions answered from office hours and help/direction from the professor regarding some things. Implementing logging took less time than estimated, so I was able to instead spend more time working on the Cookei Middleware.	I was able to understand doing the front end and was able to make another front end pretty quickly	I was able to further complete my backend and frontend implementation of my account deletion component that was left unfinished from last sprint	I was able to get the sqldao and in memory dao done	
Issues	I overestimated my sprint capacity as well as underestimated certain work items therefore I was not able to meet my expected capacity	Once again, many people ended the sprint under capacity, some more so than others. As such, we are still behind in our work, and our cumulative sprint chart is still under. Part of this is due to poor planning by individuals. Another reason is finding out additional necessary work or requiring revision work after getting feedback from the professor. We also had issues with merging code to GitHub.	I was a little off completing all my work items as I had not allocated enough time to do revisions before I can finish testing. Therefore, i was not able to finish the testing work item.	The team code review highlighted a lot of flaws and missed opportunities in my code, which meant I needed to revise much of it. But for this sprint, i didnt make a backend implementation work item, so most of my points did not show up in the burnup chart.	I underestimated the amount of time and effort needed to design tree histories feature. It is more complicated than the other tables I worked on in the previous sprint. I made a mistake on when the sprint would end. That threw my forcast and required burn off. I have a few hours left from the sprint as a result.	
Improvements	I will be more realistic with my sprint capacity in addition to better estimation of future work items as I have more knowledge of various processes/implementations	We will have dedicated work items for code merges. In terms of individual capacities, I will be monitoring more closely everyones work and discuss any other issues that arise in regards to meeting capcity with said individuals. While not exactly quantitative, members need to be making better estimates based on past sprint data and knowledge of potential future impediments.	I've made sure to include revisions in my next sprint (sprint 16)	There was a lot of revisions and design I made which had no work item for, so this sprint i will be sure to add a work item that accounts for revisions of past tasks and work items. I will continue to try to reach old capacities, so my workload is back up to my old capactiies.	I will be taking into account the complexity of the task at hand. I will also be more careful about planning my sprints.	
			Sprint 16			
	Jessie	Matthew	Pammy	Viet	Ian Ho-Sing-Loy	Ryan
What went well	I was able to get a majority of the component done for Create Node	I completed all my work items for this sprint. Switched to the token authentication and was able to get it working with little trouble compared to the previous cookie authentication. Just based on completed capacity, the team did much better in reaching our expected capacity compared to the last couple of sprints. Getting better as a team at updating documents on time.	I was able to meet my capacity and finish my work items. I was also to finally create a production environment	I was able to hit my capactiy and able to revise and add much more functionality to my account deletion component	During spring break, I was able to hit my capacity.	

Issues	Poor foresight of future technologies we would end up using resulting in having to go through the DAR Process more than was actually necessary. Did not get to wrapping up the UAD Component.	Viet did not get to any of his planned UM work, instead he spent the entire time continuing his work on account deletion. Because of this, although the team chart looks much better based on completed capacity, some planned work items are not being completed, Jessie also had some tasks/work items that he did not do. However this is not readily apparent just by looking at the team chart as both Viet and I exceeded our expected capacity by a small amount. Still having issues with people forgetting to update documents even with reminders which prevents the team chart from being updated.	Due to having more time during spring break, I found that I was going to reach my capacity much sooner than expected. I therefore, had to slow down at the end, which is not good for productivities sake.	Account deletion testing took way longer than expected, which is why the expected capacity is exceeded, but the testing is still not done. Because the testing was unable to be finished, I was unable to get to fully implement front end. There are many more cases for account deletion that I didn't factor in before until we started. Another issue was that I got sick for 2 days, which brought down the capacities of those days by a lot and prevented me from doing work.	Even though I had more time during spring break, I found that I needed more time to work on my work items. It was more difficult to find time to do it. I needed more time to complete testing for my features than I thought. It took more time to figure out async testing.	
Improvements	Once we get approval of the technologies we need, there shouldn't have to be any more DAR processes we have to go through. Sprint Planning will be done more accurately so that any revisions or extra tasks will be accounted for and be put into schedule better.	Improvements that need to be made are for the individuals. Better planning, better estimation of work based on previous experience, better time management. Same thing goes for updating documents.	While I don't see the having an increase in time during the next couple of weeks, I will make sure that my sprints take into account extra time or less time	I have done a more granular breakdown of my tasks this sprint, and I gave certain tasks such as design and frontend implementation great points as a buffer just in case they take longer than expected.	Will make sure to provide better estimates for all of my work items.	
Sprint 17						
	Jessie	Matthew	Pammy	Viet	Ian Ho-Sing-Loy	Ryan
What went well	I was able to get the Backend Implementation complete for Delete Node so that and Create Node are ready to be implemented in the front end	This sprint I was able to get through the majority of my work and hit my capacity for the sprint. I got lots of questions answered at office hours and advicee on how to do things.	This sprint i was able to get all of my tasks done as well as hit my capcity.	I was able to push all my work for the past sprints onto the production environment to show the work that i've done. I also got started on my component for my individual code review, and was able to get some good feedback from the professor on my component on how it should be implemented.	I managed to get the front end coding done.	
Issues	As the work capacity shows, I was not able to get to the Front End for Tree Components,	We ended up lower in our completed team capacity than we would have liked. I would say that part of this is due to having a merge in the middle of the sprint for the team review, but the other part is once again due to poor estimation/time management/sprint planning and understanding of things that need to be done individually. People have also started to once again become more lax in updating charts and scrum logs.	I did not run into any issues, as a team we were not able to meet our capacity or finish work items.	I wasn't able to get as much work done on my individual component as I would've liked.	I was caught off-guard by exams and assignments announced in the middle of the sprint. I had lower capacity than expected.	
Improvements	I will devote more time in the day towards this class and the freed up class time will assist in that	We received feedback on this exact thing in the team review, so in order to remedy the issue, individuals need to review past data and analyze what things they are weak in and plan accordingly. In order to remedy the other issue, I will once again be pushing to make sure that people have their documents updated daily.	Since this is more of a team issue, I will make sure to encourage others to finish their tasks	I will be devoting all the time of my next sprint into completing my individual component, and will be discussing critical front end and backend aspects of my component with my group.		
Sprint 18						
	Jessie	Matthew	Pammy	Viet	Ian Ho-Sing-Loy	
What went well						
Issues						
Improvements						