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| **ECE498A: Student Log** | | | | | |
| **Name: Qi Liu Group: 2015.010 Signature: .**  **By signing above, I am stating that this is an accurate account of the tasks, dates, and times that I worked on my capstone design project.** | | | | | |
| **Task** | **Date** | **Start time** | **Finish time** | **Hours** | **Running total of hours** |
| -brainstorming topics for FYDP  -researched existing messaging clients | May 8 | 5:00PM | 8:00PM | 3 | 3 |
| -researched platforms and tools used for web development  -researched distributed messaging libraries  -read up on asynchronous javascript programming (callbacks vs promises) | May 10 | 7:00PM | 9:00PM | 2 | 5 |
| Group meeting:  -Decided on topic for FYDP  -Scaffolded initial angular app with yeoman  -modified grunt script to launch in chrome instead of default browser | May 11 | 3:00PM | 5:00PM | 2 | 7 |
| Group meeting:  -added new message controller  -added browserified telehash package | May 14 | 2:00PM | 4:30PM | 2.5 | 9.5 |
| -benchmarked solutions for distributed messaging  -researched into operational transformation libraries used for real time messaging | May 17 | 5:00PM | 11:00PM | 6 | 15.5 |
| Group meeting:  -implemented user id (hashname) generation using telehash library  -added related tests  -created several abstract services (communication, storage)  -added browserify build workflow to gruntfile | May 18 | 3:00PM | 6:00PM | 3 | 18.5 |
| -worked on documents  -reported issues to open source libraries | May 24 | 4:00PM | 8:00PM | 4 | 22.5 |
| -ruled out possibility of real time messaging for Telehash and TOR  -tweaked UI of application | May 25 | 3:00PM | 10:00PM | 7 | 29.5 |
| Group meeting:  -initial implementation of telehash messaging | June 7 | 5:00PM | 10:30PM | 5.5 | 35 |
| -worked on documents  -debugged message reliability issues  -added reliability layer to communication service | June 8 | 2:00PM | 7:00PM | 5 | 40 |
| -fixed ui glitches for data-binding  -refactored promises implementation | June 14 | 4:00PM | 6:00PM | 2 | 42 |
| Group meeting:  -added user hashname to debugging message  -refactored contact list ids  -refactored verification process  -fixed invalid hashname error  -added additional debug message  -fixed invalid hashname bug | June 15 | 2:00PM | 8:00PM | 6 | 48 |
| Group meeting:  -added status message handling and display  -refactored passing of ids into contact objects  -implemented $q service promises for listening method callbacks to fix data binding  added configuration service to store user settings  -added angular constants to store hard-coded strings | June 28 | 1:00PM | 6:00PM | 5 | 53 |
| -tweaked UI some more | July 2 | 1:00PM | 3:00PM | 2 | 55 |
| -added new libraries required for cryptography | July 5 | 5:00PM | 9:00PM | 4 | 59 |
| -worked on documents | July 6 | 6:00PM | 11:30PM | 5.5 | 64.5 |
| -added some learning resources to the team’s github repository | July 7 | 9:00PM | 12:00PM | 3 | 67.5 |
| -refactored code structure to reduce coupling and improve code reuse | July 8 | 11:00AM | 5:00PM | 6 | 73.5 |
| -learned about advanced telehash features and specifications | July 9 | 7:00PM | 9:00PM | 2 | 75.5 |
| -researched cryptography library and features, advantages/disadvantages of each cryptography standard | July 11 | 6:30PM | 12:00PM | 5.5 | 81 |
| Group meeting:  -implemented cryptography service wrappers  -changed listener implementation  -changed listener implementation  -changed sending implementation  -implemented promises for send method | July 12 | 2:00PM | 8:00PM | 6 | 87 |
| Group meeting:  -corrected channel storage and using channel to send  -added check for connecting to self  -added more debug details  -attached callback to contact specific channel  -re-added send status update on start | July 13 | 2:00PM | 8:00PM | 6 | 93 |
| -learned more about asynchronous programming with promises in javascript | July 14 | 3:00PM | 8:00PM | 5 | 98 |
| -experimented with new UI framework | July 15 | 8:00PM | 3:00AM | 7 | 105 |
| -experimented with setting up PhoneGap mobile application wrappers | July 18 | 7:30PM | 12:00PM | 4.5 | 109.5 |
| Group meeting:  -multiple promise implementation for sending and receiving  -reimplemented promises for sending and receiving  -renamed parameters for sending and receiving channels  -implemented seperate channels for sending and receiving | July 19 | 3:00PM | 10:00PM | 7 | 116.5 |
| Group meeting:  -using iife to enclose iterator to fix closure bug  -ported closure fix to master  -testing without response on listen channel  -reimplemented channel based send  -added angular-moment library  -fixed sending promise resolution  -tweaked styling  -added and implemented busy indicators on startup and send using angular-busy library  -removed footer | July 20 | 12:30PM | 8:30PM | 8 | 124.5 |
| Group meeting:  -further styling tweaks  -complete styling overhaul -included new bootstrap theme  -enabling dragging only on phone resolutions  -changed offline detection to activate on first timeout  -testing offline detection  -reverting to send messages only in start  -re-implmented response on listen channel | July 21 | 1:00PM | 7:00PM | 6 | 130.5 |
| Group meeting:  -implemented timestamp tracking  -refactored contacts and conversations into arrays to preserve ordering  -added scrolling overflow for message area  -added Time service as momentjs wrapper | July 22 | 3:00PM | 8:00PM | 5 | 135.5 |
| -set up boilerplate project using Ionic Framework for mobile centered web app development | July 24 | 3:00PM | 8:30PM | 4.5 | 140 |
| Group meeting:  -fixed chrome specific overflow behavior  -remove developer names from footer on xs resolution  -added workaround for time sync issues  -refined time ago filter  -redesigned contact list  -fixed timestamp implementation  -added abbreviation option for id-to-name filter  -re-added from parameter to saved messages | July 25 | 1:00PM | 7:30PM | 6.5 | 146.5 |
| Group meeting:  -added server as seed  -added tab sorting by most recently opened.  -changed badge color  -added unread message count for contact tab  -fixed always present scroll bar  -changed 'just now' time message for time difference sync to 'seconds ago'  -fixed relative timestamp updates  -implemented invite accept/reject  -implemented receiving invites -removed hard coded contacts  -added invite sending  -refactored dependency between identity and communication services | July 27 | 1:00PM | 8:30PM | 7.5 | 154 |
| Group meeting:  -fixed invite name display  -fixed invite spamming  -Added form validation for add contact and send message  -fixed tab message count, fixed invited buttons | July 28 | 3:00PM | 8:00PM | 5 | 159 |
| -implemented more polishes for UI | July 29th | 2:00PM | 8:00PM | 6 | 165 |