11/01/2018

- I acquired a client, Narges Zolfaghari is a General Practitioner who wants a software solution to keep track of her clients, their visits to the practice, and document their visits with images and text.

- ☑ Meet the client, and define the solution with the Software Definition document
- ☑ Complete the non-client related sections of the software definition document

Links:
[Software Definition Document](#)
[11/01/2018](#)

12/01/2018

☑ Complete the plan in OneNote
☑ Go over Syllabus to ensure everything is included in the plan

In Addition:
- Created a Gantt Chart

Links:
Project Plan

13/01/2018

Sunday, 14 January 2018   12:26 PM

☑ Research 3 different apps that achieve what the client has requested
☑ Take notes on the features and properties of these apps

Notes:
- Found three apps called: CareRight, PrimaryClinic, and ZedMed
- All but CareRight have trash UI
- None of these apps are a dedicated client database application

Links:
www.clientel.com.au
www.primaryclinic.com.au
www.zedmed.com.au

PrimaryClinic UI:

14/01/2018

- ☑ Create Notes about the three applications researched yesterday
- ☑ Create a positives and negatives table for each

In Addition:
- Included screenshots from each of the applications
- Included links to each solution's website
- Contacted the Client asking for the fields they would need on each patient

Links:
[Existing Solutions](#)
[14/01/2018](#)

16/01/2018

☑ Create a Client Communication entry for the clients reply
☐ Create and complete the page on different methods for completing the solution.

Note:
- Different methods took longer than anticipated, left less than half of the section for tomorrow.

Link:
[16/01/2018](16/01/2018)

18/01/2018

☑ Complete the multiple solutions section

Link:
Creating an Original solution

21/01/2018

- ☑ Decide on a name for The Project
    - Note:
        - Client requested the project be named, "NargesLogs" after her name.
          [21/01/2018](21/01/2018)
- ☑ Create a Logo for The Project
    - Note:
        - Used an image from a site inside my logo:
          http://doctors.riversidehealthcare.org/doctor/maria-garcia-md

Links:

[Project Logo](Project%20Logo)

22/01/2018

☑ Create Screen Designs
☑ Link them to make them storyboards

In Addition:
- Emailed the client regarding the screen designs

Links:
Screen Designs / Storyboards
22/01/2018

23/01/2018

Tuesday, 23 January 2018   7:51 PM

☑ Create an IPO Chart

    Note:
    -Decided to create data dictionaries after build section is complete as I am clueless of the variables that are to be used in the server and other places.

    Link:
    IPO Chart

30/01/2018

☑   Create a Sorting algorithm

Notes:
- Works by clearing the list, going through the list of patients, finding the lowest value for the requested option (eg lowest age), adding them to the list, removing them from the list of patients, and doing this until there are no more entries in the patients list

Link:
Algorithms

01/02/2018

Thursday, 1 February 2018   12:31 PM

☑ Begin work on basic UI

Note:
- Created a page in the 'Build' section explaining my naming convention
- Need to create an additional button for saving changes in each editable page
- Need to create an additional connection button, with an option to host locally, as well as change the host ip and port.

Links:
How is this lay out?
Version 0.0

02/02/2018

☑ Complete the basic UI

Notes:
- Some buttons had to be oversized in the IDE because they were undersized when built for some reason.
- Sent an email to the client with screen shots of the UI
- Added the Client Communications log
- Uploaded v0.1

Link:
Version 0.1
[02/02/2018](02/02/2018)

13/03/2018

- Took a break from working on the project due to mid-term exams.

☑ Implement blue colour scheme.

Notes:
- Also implemented the logo.
- Need verification that the logo is safe.
- Need to create images. Eg: 'Click to add image' image

Links:
Version 0.2

15/03/2018

- Was told by teacher that the logo would breach copyright and was not edited enough to count as my work

☑ Create new Logo

Notes:
- Created logo from scratch in illustrator

Links:
Project Logo

20/03/2018

- ☑ Implement the images into the program
- ☑ Adjust colouring
- ☑ Upload new file when at home
- ☑ Contact client asking for feedback

Notes:
- After fiddling around with the images they are finally up and the new version of the program is in. (0.22)
- Fixed the colouring and made the infrastructure for responsivity.
- Emailed client asking for feedback

Links:
Version 0.2
20/03/2018

21/03/2018

☑   Begin working on responsivity

In Addition:
☑ Completed responsivity
☑ Recreated some images
☑ Adjusted colouring

Note:
- Used a separate page of code for some functions.
- Used a combination of PasswordBox and TextBox and changing z-order to create the password effect.
- Coded inter-window buttons.
- Received an email from client.
- Responded to email.

Link:
Version 0.3
[21/03/2018](21/03/2018)

22/03/2018

Thursday, 22 March 2018   9:12 PM

- ☑ Get feedback from Mr Stanuga
- ☑ Implement feedback
- ☑ Add ListView columns

In Addition:
- ☑ Altered some functionality

Note:
- Made some changes to images
- Added loading cursor
- Changed some colours

Link:
Version 0.3

25/03/2018

- ☑ Complete edit button functionality
- ☑ Expand Visits ListView and delete Notes for patient
- ☑ Complete save button functionality
- ☑ Fix Image errors
- ☑ Replace Notes TextBox with RichTextBox

Notes:
- Face-to-Face Client Communication
- Made changes requested by client
- Added functionality of edit modes and saving edit modes
- Fixed some bugs

Links:
25/03/2018
Version 0.4

26/03/2018

- Discussion with Mr Stanuga regarding a 'Home Page' for the program, as having the patient list as a home page may cause privacy issues.
- Client confirmed that this is a change to the program that they want.

☑ Create a 'Username' box for the login screen
☑ Create a Home Page
☑ Wire up buttons appropriately

In Addition:
☑ Added a 'Back' Button to Patients List
☑ Moved 'Back' Button on Patient Details for consistency
☑ Noticed missing 'Remove' Button under 'visits' in Patient Details, added it.
☑ Rewired the Rows on MainWindow and Patient_Details

Links:
26/03/2018
Version 0.4

29/03/2018

- Mr Stanuga suggested I try making all the windows uniform and fixing the scaling for the UI.

☑ Create uniform UI
☑ Fix UI scaling

Notes:
- Decided to disable window adjusting as other solutions would be too time consuming.

Links:
[Version 0.4](#)

12/04/2018

- Did some research on working with databases

☑ Create a database without any entries.

Links:
Version 0.5

16/04/2018

☑   Create an example entry for the database
☑   Begin working on server

    Notes:
- Took an example portrait for testing the database.
- Took an example image of arm for testing the database.
- Created a basic server that can be used with DummyApp to transmit the first names of all patients.
- Learnt to retrieve info from database
- Am able to use Tcp to transfer name.
- Used the help of old projects we had done in class with Me Dingle and forum pages.

Links:
Version 0.5

26/04/2018

Monday, 7 May 2018   7:32 PM

☑ Send an email to the client with a monthly update

Note:
- Decided to send an update to the client when there has been no client-relevant development for a month.

Link:
26/04/2018

30/04/2018

Monday, 30 April 2018   9:17 PM

- ☑ Create more entries into the database
- ☑ Create "Users" table for database
- ☑ Begin working on sending info from and to server

Note:
- Created modular functions for sending, receiving, hosting, etc…
- Need to figure out how to send and read multiple messages at the same time: look into asynchronous code.
- Rn the client receives the same message but the correct number of times.

Link:
[Version 0.5](#)

1/05/2018

Tuesday, 1 May 2018   10:42 PM

☑ Fix the tcp issue.
☑ Create a login system

Note:
- Found out the issue was an incorrect name for a variable when filtering the received packets
- Created a ping system for receiving multiple tcp messages
- Created better Console reports for the server, with dates etc…

Link:
Version 0.5

2/05/2018

☑ Create Database loading function
☐ Fix tab issue in login

Note:
- Despite many issues, the database is now loading into the client.
- Created birthday checking system to calculate all patient ages based on birthday
- Faced various issues that were fixed
- Did not have time for tab bug

Link:
[Version 0.6](#)a

3/05/2018

Thursday, 3 May 2018   4:37 PM

☐   Create Patient viewing function

        Note:
        • Issue where I cannot add a click event to the items
        • Adding inheritance makes the text disappear
        • Emailing dingle for solution

Link:
Version 0.6

4/05/2018

☑   Create Patient Viewing Function

Note:
- Mr Dingle sent me one line of code that fixed the entire issue.
- Patients can now be viewed in details
- Edit function now loads proper information

Link:
[Version 0.6](#)

7/05/2018

- [x] Finalize the patient loading feature
- [x] Begin work on loading visit information

Note:
- Decided to create a temp folder to store images in.
- Need to learn how to programmatically change image sources.
- Need to add them as children

Link:
[Version 0.6](#)

10/05/2018

Thursday, 10 May 2018   9:55 PM

☑ Create image transmission

Note:
- Fixed the source changing issue, simple syntax problem.
- Changed the system for writing files as it was fundamentally flawed.
- Fixed lots of logical errors

Link:
Version 0.6

12/05/2018

Saturday, 12 May 2018   11:54 AM

☑   Finish imaging

Note:
- Created filing system for saving images
- Created naming system for file paths in database
- Created reading and loading system.

In Addition:
- Created the class properties and loading of "Visit Count" and "Last Condition" in the Patient list.
- Created the "Number of Images" section in visits.
- Created a number of Server Functions.

Link:
[Version 0.6](#)

14/05/2018

✓ Clean up code

Note:
- Created a few basic functions for repeated code
- Put in proper spacing
- Changed variable names to make project more consistent

In Addition:
- Created an ingenious new function which cut down my code by ~270 lines.

```csharp
public void ExecuteGenericCommand(int cmdnumber, string method, string parameter)
{
    object[] parameters = { parameter };
    DatabaseFunctions DbFunctions = new DatabaseFunctions();
    Console.WriteLine(DateTime.Now + ": Executing Command #" + cmdnumber.ToString() + "...");
    MethodInfo Method = DbFunctions.GetType().GetMethod(method);
    List<string> information = (List<string>)Method.Invoke(DbFunctions, parameters);
    for (int i = 0; i < information.Count; i++)
    {
        Send(information[i], information.Count);
        WaitForPing();
    }
    Console.WriteLine(DateTime.Now + ": Executing Command #" + cmdnumber.ToString() + "...");
}
```

Cool !!!

I love this function.

Link:
Version 0.6

15/05/2018

Tuesday, 15 May 2018   6:35 PM

☐   Complete Note taking function

        Note:
- Completed downloading of text file function
- Need to load into rechtextbox to complete note taking function

Link:
Version 0.6

19/05/2018

☑   Complete note taking function

Notes:
- Fixed the issue of seemingly random messages filling imagesize packet
- If a stream is not given enough time to load the entire package, and the program moves on pinging and reading again, the stream will continue to load the rest of the incomplete message and later packets will be filled with the middle content of the previous large file. This was the issue which was addressed by a new function which would ensure that the stream is done sending before the client moves on.

Links:
[Version 0.6](#)

20/05/2018

☑   Create patient adding system

Notes:
- Researched SQL
- Created Sending function for client similar to server
- Created database adding function.

Link:
Version 0.6

23/05/2018

Wednesday, 23 May 2018   7:33 PM

- ☑ Create image adding feature
- ☐ Create image sending feature
- ☐ Create image saving feature

Notes:
- Created simple adding feature
- Attempted to create a new function for downloading images using tcp that would be faster, using division and remainders. Rather than keep checking the function would calculate the number of times it would need to read and just read that many times.
- It did not work because it seems the packets would not fully send by the time it was done. Same old problem.
- I think I have to face the cold hard truth that if the function needs to wait 10 milliseconds and check again, that just allows more time for the server to load more of the image in before the client reads it all again. If this happens again, it means the 10 millisecond head start was not enough for the server. This means that the server is inherently slower and will remain that way. If the server had the ability to keep up the 10 milliseconds would never be triggered anyways. Even if I make a function that waits for all of it to load before reading that would make no difference, might even make it worse.

Link:
Version 0.6

26/05/2018

Saturday, 26 May 2018   11:08 PM

☑   Create image sending feature
☑   Create image reading feature

Notes:
- Last version kept shooting me the old error, so I went back a version and started over, it works now but I don't know why.
- Created a system to check if the user has changed features when back is pressed, that way the same image will not be sent twice.
- Changed setting of database in visual studio to make all changes permanent.
- The program can now add clients and their image… it will be stored indefinitely.
- Had an idea for updating clients, have ID sent in the SendClientInfo function so that the server knows which client this is, in case all info has been changed and database has no idea of who this is.
- Use the same update line of SQL that I used for updating client image, compare IDs to find correct entry to edit.
- After this I need to create visit functions which will no doubt be a pain in the ass.
- Sent the monthly update to the client.

Links:
Version 0.6
26/05/2018

27/05/2018

- ☑ Create patient editing function
- ☑ Create patient removing function

  Note:
  - Completed both tasks with minimal obstacles
  - Have to work on visits next

Links:
Version 0.6

30/05/2018

Wednesday, 30 May 2018   7:29 PM

☑   Create Visit Adding feature

    Notes:
- The program currently has lots of issues with reopening old files… delete them to solve issue.

Links:
Version 0.6

31/05/2018

Thursday, 31 May 2018   8:49 PM

☑ Complete Visit images

Notes:
- This was a big challenge but I did it.
- Need to complete note taking function to be able to open visits
- Afterwards, I have LOTS of cleaning up to do. The infrastructure is there but there are so many bugs it almost is not functional.

Links:
Version 0.6

1/06/2018

☑ Create note taking function

Notes:
- Attempted to create note taking function
- Cleared all databases to try to iron out all flaws of the program
- Reached a new problem where the connection is forcibly closed for some reason
- Emailed dingle.

Link:
Version 0.6

4/06/2018

Monday, 4 June 2018   11:53 PM

☑   Begin fixing all issues

     Notes:
- Firstly, the problem of the program crashing when going back into the patients list.
- Secondly, the program not allowing the user to change profile picture
- Thirdly, Other major issue of program randomly closing connection with server and crashing

- Began solving the issues by recreating the server architecture
- The server and client now work with only one client each

     Links:
[Version 0.6](#)

6/06/2018

Wednesday, 6 June 2018   9:30 PM

☑ Look into crashes when changing windows
☑ Fix all inter-window crashes

Notes:
- Looked into crashes from patient details to patient list, details to visit, visit to detail etc….
- Addressed each issue individually.
- Changed the way I read and write files, using a file stream that is declared beforehand, and can therefore be closed to prevent permission errors that arise from the program trying to access a file while it's other stream has it open.
- Note taking is now fully functional.
- All main functions are fully working, other than pressing back on a visit with more than one image. Needs to be looked into.
- After all crashes have been addressed, look into search function and sorting.
- Also try to make loading more user friendly.

Links:
Version 0.6

8/06/2018

- ☑ Address remaining crashes
- ☑ Make loading more user friendly
- ☑ Make loading quicker

Notes:
- Some crashes were happening because of conflicting threads. Solved issue by using global Boolean variables.
- Used more threading to change the position of the loading process in the program to make it more user friendly (no more frozen windows).
- Used proper cursors to make loading more user friendly.
- Redid my visit loading function to make it only load relevant images… greatly increased speed.

In Addition:
- Upgraded 'Remove' button to make it remove everything associated with the patient. (Instead of just the database entry)

Links:
Version 0.6

9/06/2018

- [x] Add 'Remove' function for visits.
- [x] Change the way loading images works. Make them spaced out and add scroll wheel.
- [ ] Change the way uploading files works to make it instant, rather than when the user presses 'Back'. This way, the program is more stable.
- [ ] Create drag and drop feature for images.
- [ ] Create image select and download for visits
- [ ] Code 'Add' button.
- [ ] Code 'Remove' Button.

Notes:
- Remove button took a long time to do.
- Loading images is now improved
- Have some errors with uploading visit images instantly… profile image works though.

Links:
Version 0.6

10/06/2018

Sunday, 10 June 2018   12:25 PM

- [x] Change the way uploading files works to make it instant, rather than when the user presses 'Back'. This way, the program is more stable.
- [ ] Create drag and drop feature for images.
- [x] Create image select and download for visits
- [ ] Code 'Add' button.
- [ ] Code 'Remove' Button.

In Addition:
- [x] Create temp folder clearing function.
- [x] Fix misc crashes

Notes:
- The errors for pressing back were caused because the 'Save' button was not uploading info, but the 'Back' button was. Therefore, when the save button is pressed and the user goes on to create a visit, it cannot save the visit because there is no patient info saved… unless the user goes out to the list first and reloads the patient. Issue resolved.
- Issue of visits showing wrong number of images caused by temp folders not being cleared out.
- Addressed a number of infrequent crashes that would occur due to minor errors in code.
- Changed the layout of the stack panel of images, so that they each behave differently.
- Added click event for each
- Added Save Dialog and a question box for saving images.
- Saving images was difficult.
- Had to create a system where I break the images down into bit maps and save them onto a memory stream, then turned the memory stream into a byte array and saved it as the 'Tag' of the file. This 'Tag' could later be accessed and written into specified position.
- Did online testing with two computers. Everything worked.

Links:
[Version 0.6](#)

12/06/2018

Tuesday, 12 June 2018   5:19 PM

☐ Create Drag and Drop feature
☑ Create 'Add' Button functionality
☑ Create 'Remove' Button functionality
☑ Create an indicator that the user has selected an item in visit images

Notes:
- Created a blur effect for all images, this effect goes away when an image is selected.
- A second click on a selected item allows the user to download the image.
- Cleared all images on 'Back' to stop errors.
- Noticed a bug where if there are two images in a visit, if the user goes out and comes back both have been changed to the first image. Needs to be addressed.

Link:
Version 0.7

13/06/2018

Wednesday, 13 June 2018   7:03 PM

☐   Address the visit image bug mentioned in last entry

☐   Create drag and drop feature

Note:

- Issue was caused because images were counted before the new one was added.
- Another issue was discovered that was the result of the last solution, the stock image was counted as well, causing more issues… fixed by deleting stock image.
- Another issue discovered where the images would be replaced with one another seemingly randomly.
- The issue was that temp files were not updating due to try catch failing due to files being locked… found and fixed all file locking code.
- The other issue is when files are removed, and then added, their names may overlap with one another.
- Created a new system for server which is meant to reduce the number on all images beyond deleted image to solve issue. System not working, check issue tomorrow.

Link:

[Version 0.7](#)

14/06/2018

☑ Address the visit image bug mentioned in last entry
☑ Create drag and drop feature

In Addition:
☑ Begin work on search function

Notes:
- Small issue in new algorithm was stopping the process from working. Fixed.
- Drag and Drop was created with no problems.
- Used a simple algorithm that checks the names of the patients and removes them if they do not include the text in the search box. But first stores all names to a list which will be gone through instead of the names on the list view to avoid limiting results if a search is conducted a second time.
- Added a feature that loads today's date into the date text box automatically. when a new visit is made.
- Noticed many issues persist with the image removing button. Needs debugging.
- Need to create the sorting feature and encryption feature.

Links:
Version 0.7

18/06/2018

- [x] Create sorting algorithm
- [x] Create networking features

    Notes:
- Created two algorithms. One for sorting integers such as visits and age. Another for sorting strings such as names and conditions. The string one is a variation of the integer one as it turns the first letter into an integer and executes a similar process.
- Sorting now works for ID, Name, Age, Sex, Visits, and latest condition.
- Created new settings button on login screen which allows the user to change the IP and port the client attempts to connect to.
- Need to do some polish on the client by disabling buttons, Using error messages, addressing null errors etc…
- Need to implement encryption and Multi user functionality, as well as complete comments on server to mark the end of the build stage.

Links:
[Version 0.7](#)

19/16/2018

Tuesday, 19 June 2018   5:19 PM

☑   Begin 'polishing' the client application. Record changes in notes.

       Notes:
- Created disable and enable button functions that don't make the button white/grey.
- Created functions that ensure a text box can only have digits and some other specified character as inputs… eg: Date text box can accept digits and "/".
- Fixed the error that crashed the program when the patient did not have an image.
- Encountered a problem where when a patient is created without a profile picture, and the picture is updated later, the picture then cannot be loaded for some reason. The server successfully stores the new image, but for some reason it is not loaded back into the client. Must be investigated.

Links:
[Version 0.7](#)

20/06/2018

Wednesday, 20 June 2018   10:10 PM

☑ Continue polishing the application and report changes in notes.

In addition:

☑ Email client to inform her that all functionality is complete.

Notes:
- Fixed the issue found yesterday. It was a pinging problem where I forgot to wait for ping.
- Added disabling and enabling of buttons to more buttons.
- Added many console report messages.
- Added multi user functionality to the server.
- Need to fix up some more messages for the server.
- Need to ensure all remove functions work.
- Need to add responsivity to all fields and enable disable to all buttons.

Links:
Version 0.7
20/06/2018

21/06/2018

- ☑ Ensure that all Remove functions work
- ☑ Fix all server messages
- ☑ Add responsivity to buttons and fields

In addition:
- ☑ Add proper disconnection and reconnection functions

Notes:
- Remove functions work fine although there is evidently still issues with visit images.
- Server messages are now complete.
- Still need to add disabled and enabled to all buttons.
- Proper disconnection created.
- Still need to make sure visits and patients are added in the correct order.
- Need to address some basic errors… eg: losing connection with server and not finding server.

Links:
Version 0.7

22/06/2018

Friday, 22 June 2018   12:05 PM

- ☑ Address birthday format error
- ☑ Address empty fields error
- ☑ Fix button enabling in patient details

In addition:
- ☑ Fix visit images issue
- ☐ Create encryption/Decryption

Notes:
- Visits are stored correctly in the server.
- Server sends 1 for the number of images, while there are 2 images correctly stored.
- Database does not have correct paths stored. Only one.
- Algorithm to remove second path removes both first ones because the index it is looking for is present at the beginning of the entire string. Need to find a new index.
- Fixed the algorithm.
- THERE ARE FINALLY NO KNOWN ISSUES WITH VISIT IMAGES.
- Began working on allowing for inputs into the command terminal by using threading. Used to allow the server operator to terminate the server and encrypt the database.
- Successfully imported encryption and decryption functions into program.

Links:
Version 0.7
- ☐ Address impossible date error

23/06/2018

Saturday, 23 June 2018   2:42 PM

☑ Complete encryption
☐ Continue polishing

Notes:
- Successfully used threading to allow for input and output to both be available at the same time.
- Recreated the system to only use a total of one extra thread to handle inputs.
- Imported some advanced code from a forum to simulate the input of "Enter" so that the application would not be stuck on that line and could continue outputting.
- Spent a lot of time making sure the spacing was correct on the program. Currently have a system that has a separate paragraph for each command, from "Executing command #..." to "Command #... Complete", also have a separate paragraph for "command received."

Links:
Version 0.8

26/06/2018

Tuesday, 26 June 2018   8:28 PM

☑   Continue polishing and record changes in notes.

Notes:
- Added error message for adding a profile image before creating a patient.
- Added enable/disable for remove and add buttons in Patient details.
- Fixed an issue with birthday formats (error when user does not enter any value into field… caused when trying to count the chars in the field)
- Fixed some writing issues in server.

Links:
Version 0.8
26/06/2018

27/06/2018

Wednesday, 27 June 2018   9:54 PM

☑ Complete the build section!

Notes:
- Added responsivity to visit entry fields.
- Added Enable Disable to buttons in visit entry.
- Caught some errors for uploading visit images before saving visit.
- Build section complete!
- Need to create documentation for testing.

Links:
[Version 1.0](#)

4/07/2018

☑ Begin working on testing schedule

Notes:
- Created a title page for the testing plan.
- Created the 'Introduction' section, which outlines the document purpose and the overall testing plan. It includes all the different types of testing that will be conducted and how they will be conducted etc…

Links:
Testing Plan & Results Document

5/07/2018

☑ Complete the Testing Document
☑ Create the documents that are to be filled out by testers

Notes:
- Created a section for each type of testing, describing the method in which the test will be carried out as well as all functions for unit testing, all tasks for system testing, and all rules for destructive testing.
- Created tables for unit testing like this:

Function	Pass/Fail	Fail Notes	Fixed/Not Yet Fixed	Fix Notes
'Username' field				
'Password' field				
'Login' button				
'Settings' button				

- Created a table for system testing like this:

Task	Bug/Error encountered	Screenshot of Bug/Error	Fixed/Not Yet Fixed	Notes

- Created a checklist of tasks for system testing
- Created tables for destructive testing like this:

Error/Bug Encountered	Data input/Steps taken	Error Screenshot	Fixed/Not Yet Fixed	Notes

- All documentation is now complete for testing.
- Had a face-to-face client communication about system testing.

Links:
Testing Document
Unit Testing
System Testing
Destructive Testing
05/07/2018

6/07/2018

Friday, 6 July 2018   8:29 PM

☑   Begin Unit Testing

   Notes:
   • Completed testing of 'Login'.
   • Caught 1 Error that would occur when no connection could be established.
   • Fixed the error
   • Completed testing of 'Settings'.
   • Found 1 Bug.
   • Fixed 1 Bug.
   • Completed testing of 'Home'.
   • No errors/bugs found.
   • Began testing 'Patients List'.
   • Updated the version naming system to account for testing.

Links:
How is this lay out?
Version 1.1
Unit Testing

7/07/2018

Saturday, 7 July 2018   9:28 PM

Notes:

- Discussed testing with dingle at tutoring today. Decided to change the types and schedule of my testing.
- Changed my testing documentation and created new pages in the OneNote.
- Have now categorized and named types of testing properly, and have also added new types of testing.

Links:

Test

11/07/2018

Wednesday, 11 July 2018   11:33 AM

☑   Complete General Unit testing

          Notes:
    • Completed the rest of the testing without encountering any errors.

Links:
General Unit Testing

8/07/2018

Sunday, 8 July 2018   7:31 PM

☑ Complete testing documentation
☐ Complete General Unit Testing

Notes:
- Created a table for peer testing
- Changed some terms and added/removed some features from peer testing in documentation
- Added one more function to general unit testing.
- Completed the "Patients list" section of the General Unit Testing.

Link:
[Testing Document](#)
[Peer Testing](#)
[General Unit Testing](#)

30/07/2018

Monday, 30 July 2018   11:24 AM

- Paused project development during trials.

- [x] Complete Conducting 1 Peer test
- [ ] Complete Addressing all bugs found on 1st Peer test
- [ ] Complete Conducting 1 Peer test
- [ ] Complete Addressing all bugs found on 2nd Peer test

Notes:
- In preparation for testing, I recreated the database so that the entries would once again begin at 1, cleared all previous data, and split the massive connections function of the server into separate command functions to increase modularity and allow for automatic testing. Saved this version as 1.12.
- When checking to see if 1.12 was functional, I encountered a bug where added patients do not load.
- Discovered the issue was caused by a birthday calculation and a try catch.
- I had forgotten to set the date of birth as a date in the database.
- 1st Peer test yielded 6 errors and bugs.
- Fixed One Critical bug, one minor bug, one major crash.
- Working on other major crash.
- Seems to be some issue with SQL

Links:
Version 1.1
Version 1.2

31/07/2018

Tuesday, 31 July 2018   7:54 PM

✅   Complete addressing all issues found in peer test 1.

Notes:
- Addressed the rest of the issues found during Peer test 1.
- Created loading cursor using dispatchers as thread wouldn't allow the cursor to be changed normally.
- Created more error catches.

Links:
[Version 1.2](#)

1/08/2018

☑   Conduct the 2nd Peer test at school.
☑   Address the issues found in the test.

    Notes:
- Conducted Peer test with Nicholas Macpherson during recess.
- Found a Critical error, a Critical bug, a Major error, and a minor bug.
- Addressed each error critical issue first, ran through a series of modular and unit tests to detect the cause of critical error. Mostly ran Unit tests for other issues. The minor bug was a much needed feature so no further tests were held.

Links:
[Version 1.2](#)

2/08/2018

Thursday, 2 August 2018   11:38 PM

✓ Conduct 3rd Peer Test
✓ Address all issues found in the test.

Notes:
- Griffin Housten conducted a fjnal peer test which surprisingly found no errors
- All tasks were achieved without hick up.
- Moving on now to destructive testing.

3/08/2018

- ☑ Conduct 1st Destructive test
- ☑ Address all issues.

Notes:
- Conducted the first Destructive test at school with William Auld.
- Found 4 Issues.
- Fixed the First issue.

Links:
[Version 1.3](#)
[Destructive Testing](#)

6/08/2018

Monday, 6 August 2018   7:14 PM

☑ Complete addressing all of the issues found in the destructive test.

Notes:
- The previous solution solved a second issue.
- Created a solution for one more issue.
- The same solution once again addressed the two remaining issues.

Links:
[Version 1.3](#)
[Destructive Testing](#)
[Destructive Testing Response - Modular and Unit Testing](#)

7/08/2018

☑ Conduct the second destructive test
☐ Address all issues

Notes:
- The second destructive test was conducted by Brody McManus.
- 4 Bugs and Errors were found. 1 Critical and 3 Major.
- 1 Critical and 1 Major issue was addressed.

Links:
Version 1.3
Destructive Testing
Destructive Testing Response - Modular and Unit Testing

8/08/2018

Wednesday, 8 August 2018   6:34 PM

☑   Complete addressing all of the issues of the 2nd Test.

      Notes:
- Completed all of the issues.
- The program is now far more stable.

Links:
[Destructive Testing](#)
[Destructive Testing Response - Modular and Unit Testing](#)
[Version 1.3](#)

9/09/2018

☑   Conduct the final destructive test
☑   Address all issues
☑   Email the client letting them know of the progress

Notes:
- Conducted a destructive test with Hamish Francis
- Found 3 issues, 1 Runtime Crash and 2 Bugs.
- The 'steps taken' section of the runtime crash were followed multiple times in different circumstances and the error could not be recreated. It is assumed that the tester description was either incomplete or incorrect. If this error is encountered again it will be addressed.
- The other two bugs were addressed.
- Emailed the client to let them know about the progress.

Links:
9/08/2018
Version 1.3
Destructive Testing

10/08/2018

Saturday, 11 August 2018   6:49 PM

☑ Contact the client on when to meet for User Acceptance.

In Addition:

☑ Complete User Acceptance.

Notes:
- Contacted the client in a face-to-face communication and got confirmation that User Acceptance could be held this morning at her office.
- Completed User Acceptance.
- Only arrived at one issue - A legal issue regarding the editing of previous visits.
- The issue was that it was illegal under Australian law to change visit notes the day after they have been made, as this could be used to falsify evidence in a legal dispute. This was not mentioned during the definition phase when the client outlined the problem.
- The client has been informed that if they wish to make further amendments to what had already been outlined in the definition document, they may contact me again after the initial requested project is completed.

Links:
User Acceptance
[10/08/2018](10/08/2018)

12/08/2018

Sunday, 12 August 2018   7:17 PM

☑ Complete User Manual

Notes:
- Created screenshots of every screen of the application with highlights of each element.
- Numbered each element and described them in the manual with some information on how they work.

Links:
User Manual

27/08/2018

Monday, 27 August 2018   3:43 PM

☑ Create a structure chart
☐ Create a Data Dictionary
☐ Clean up code

Notes:
- Just completed trials.
- Coming back strong before final presentation day.
- Need to go back and complete some documentation in case of future maintenance.
- Renaming commands for intrinsic documentation.
- Completed the structure chart with new function names and added colour coding for threads.
- Completed commenting and cleaning: 'Login screen', 'Connection functions', 'Public functions', 'Tcp', 'Global Variables', 'Main Window', 'Patient Details'.
- Need to comment out the rest of the code, may abandon data dictionary if there is no time left.

Links:

Version 1.4
Structure Chart

28/08/2018

Tuesday, 28 August 2018   8:49 PM

☐   Complete cleaning code and comments

Notes:
- Completed cleaning and comments for: 'Visits', 'Patient Details'
- Realized I use selection sort.

29/08/2018

Wednesday, 29 August 2018   10:31 AM

- ☑ Complete cleaning code
- ☑ Complete Algorithms
- ☑ Complete Data Dictionary
- ☑ Complete Instructional video
- ☑ Complete Installer.

Note:
- Completed cleaning code and commenting for the entire server (all classes and functions)
- Created the age calculation and search algorithms in Pseudocode.
- Completed a massive data dictionary with 50+ entries.
- Used Bandicam and Video Editor to create an instructional port forwarding video.
- Begun creating an installer.
- Successfully created two installers, one for the server and one for the client.
- Came to the disastrous realization that the past 3 days of work had been done on an old version of the application.
- Began re-entering newer version features into current version.
- Realized that one of the solutions made for a destructive test was incorrect.
- Found a new, much better solution for checking connection.
- The solution is now up to date.
- Completed making the installers and put them both on a disk.

Links:
Data Dictionary
Algorithms
Version 1.4
Port Forwarding Instructional Video

30/08/2018

- Send a completion email to the client.
- Fix the data dictionary.
- Review the project.
- recreate the installation package.

Notes:
- Final journal entry (hopefully)
- Presented the solution
- Packed everything up and put in folder.
- About to export the notebook and also put in folder.
- Recreated the installation packages. Now far superior with a readme file.

Project Complete :)

Dam that Ping system!!!

Project COMPLETE

whoop! whoop!

SQL
XAML
C#