**Diary – Petros Mavridis**

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| Date | 24/04/2015 |
| Action | Created the beginning of the GUI for the assignment |
| Time Expected | 4 hours. |
| Time Taken | 4 hours |
| Problems | No real problems with this as Qt creator is a drag and drop GUI builder |
| Solutions | None |

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| Date | 25/04/2015 |
| Action | Continued with the GUI starting to look more like a program with buttons and input fields for username and password. Also added multiple forms for different users and what they can see. |
| Time Expected | 2 hours |
| Time Taken | 3 hours |
| Problems | The new forms were opening new windows instead of just changing state |
| Solutions | Changed the forms so that they hide and show as visible it stopped opening new windows and just kept it all in one window. |

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| --- | --- |
| Date | 26/04/2015 |
| Action | Started to add C++ code to the GUI |
| Time Expected | 4 hours |
| Time Taken | 4 hours |
| Problems | Because I chose QML in Qt for GUI this presented some problems with calling C++ functions. |
| Solutions | After some research on the web I found that some C++ code needed to be changd such as strings converted to QString. For interacting between the GUI and C++ |

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| Date | 29/04/2015 |
| Action | Informed the group of possible problems with C++ and QML |
| Time Expected | 15 minutes |
| Time Taken | 15 minutes |
| Problems | None. |
| Solutions | None. |

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| --- | --- |
| Date | 29/04/2015 |
| Action | Informed the group of possible problems with C++ and QML |
| Time Expected | 15 minutes |
| Time Taken | 15 minutes |
| Problems | None. |
| Solutions | None. |

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| --- | --- |
| Date | 29/04/2015 |
| Action | Informed the group of possible problems with C++ and QML |
| Time Expected | 15 minutes |
| Time Taken | 15 minutes |
| Problems | None. |
| Solutions | None. |

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| --- | --- |
| Date | 2/05/2015 |
| Action | Added more to the base GUI, more forms have been added for each of the user types. |
| Time Expected | 2 hours |
| Time Taken | 2 hours |
| Problems | No problems this was relatively easy as it was just a simple copy and paste of the previous forms with only slight modification to the elements that are visible to each user type. |
| Solutions | None. |

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| --- | --- |
| Date | 3/05/2015 |
| Action | Implementing SQL database with the GUI |
| Time Expected | 2 hours |
| Time Taken | 6 hours |
| Problems | This was a monumental headache QML/Qt just did not want to work with SQL |
| Solutions | A lot of the code needed to be changed both in C++ and SQL for it to work in the end I gave up with the intention of having a vote to either create the GUI or use SQL but both was far too time consuming at this point. |

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| --- | --- |
| Date | 6/05/2015 |
| Action | Asked group which they preferred SQL or GUI |
| Time Expected | 15 minutes |
| Time Taken | 15 minutes |
| Problems | None. |
| Solutions | We decided to elicit some information from the client and make a decision. |

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| --- | --- |
| Date | 6/05/2015 |
| Action | Officially stopped using Qt for the GUI |
| Time Expected | 15 minutes |
| Time Taken | 15 minutes |
| Problems | Integration with SQL far too complex at this stage |
| Solutions | We will implement SQL with a command line based UI. |

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| --- | --- |
| Date | 10/05/2015 |
| Action | Learning SQL I have never used before |
| Time Expected | 2 hours |
| Time Taken | 2hours |
| Problems | No problems, installed sqlite3 and started to learn how to interact with it. |
| Solutions | None. |

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| --- | --- |
| Date | 11/05/2015 |
| Action | Started working on our GitHub version of the code. |
| Time Expected | 2 hours |
| Time Taken | 5 hours |
| Problems | Still learning SQL and it’s commands both for command line and C++ intergration. |
| Solutions | Many articles online with cheat sheets to help me with accessing the database |

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| --- | --- |
| Date | 13/05/2015 |
| Action | Installed ncurses for password hiding when login in. |
| Time Expected | 1hour |
| Time Taken | 30 minutes |
| Problems | No problems here was a straight forward header file |
| Solutions | None. |

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| --- | --- |
| Date | 14/05/2015 |
| Action | Password hiding and clearing the screen to stop scrolling of menus. |
| Time Expected | 2 hours |
| Time Taken | 1 hour |
| Problems | Ncurses is proving to be a problem on MacOS X |
| Solutions | I switch to system calls for clearing the screen to make it look better. |

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| --- | --- |
| Date | 21/05/2015 |
| Action | Implementing the travel agent functionality |
| Time Expected | 2 hours |
| Time Taken | 4 hours |
| Problems | Had to learn more of SQL to be able to start accessing some other boundary classes for the travel agent user. |
| Solutions | Discussed this on Skype with the group that provided solutions to my problem. In the end it was a matter of accessing the correct table and searching with a unique identifier |

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| --- | --- |
| Date | 27/05/2015 |
| Action | Need to fix system calls between the 3 OS’s we are using |
| Time Expected | 2 hour |
| Time Taken | 1 hour |
| Problems | Each OS has a different system call to clear the terminal |
| Solutions | Using define guards for it to use the correct system call for the OS |

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| --- | --- |
| Date | 29/05/2015 |
| Action | Completed the travel agent UI |
| Time Expected | 2 hour |
| Time Taken | 1 hour |
| Problems | None |
| Solutions | None |