**Weekly Learning Log and Reflection**

**Week4**

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| **Student Name: Wenjing Li** | **Student Number: A00279784** |
| **Subject: Agile Methodologies 4.2 - (AL\_KSENG\_B\_4)** | **Semester Number:2** |
| **Student Signature: Wenjing Li** | **Week Number: 4** |

* What new knowledge and/or skills did I acquire this week?

This week I have learned Minimum number of test and MiniNum branch test. And I know how to use them in my development.

* What existing knowledge and/or skills, if any, did I employ and/or build upon this week?

I used Minimum number of test and MiniNum branch test in my Login component.

This week I have a clearer understanding of white box testing and black box testing.

* Describe the context within which I employed my knowledge and skills this week.

This week I will develop the login function, which involves user names and passwords, and the resources that users can access.

So I used the minimum test branch strategy to ensure the correctness of the username and password, and the path to the resource.

For example: user name and password must be 3-16 digits

The resource path must follow the /aaa/bbb format, and the length of aaa and bbb needs to be controlled within 1-10.

I designed a test class with 3 test methods. The first test method tests the username, the second method tests the password, and the third method tests the url.

Among them, the username and password, I used the same regular expression.

The URL uses a new regular expression.

After the test is completed, any information that does not satisfy the regular expression will be displayed to the user, telling them that the input is wrong.

* How much responsibility did I take, personally and in my group, for the application of my knowledge and skills this week? What role did fulfil within the group?

This week I developed the login function, which is a big feature. Including GUI interface, database design, and login function realization.

I actively participated in the meeting and discussed issues with my teammates.

* Are there still gaps in my learning? If so, identify those gaps and describe the steps that I plan to take to fill those gaps.

Test branch, I need to learn this part. And use it.

* How has my learning this week helped me to develop as a Software Engineer and in my interactions with other members of my group/class? Which interactions did I value?

This week I have learned Minimum number of test and MiniNum branch test. I know how to use them in the daily development process. Among them, drawing branch test diagrams helped me sort out the logic and make my test cases comprehensive.