Reflections

Topics that made me think in software development process:

Development style (Spiral model)

In the initial implementation assignment, our team planned to much on how to implement required features as whole and what are required knowledge in Database tables, Logical operations, and user interface. This process took most of the time. we implemented every once part well with user-interface tabs, we defined SQL tables, and link between each database table. When we tried combine everyone's work, code was not working together at all. There was no consistency in the individual codes. This led us to submit very simplest version of the project in the last moment. This scenario made us realize we could have followed spiral software life cycle mode (L02 Life cycle model, slide 33). If we had followed spiral model in the software development, we could have tested our small features together first and based on that experience we would have corrected out implementation style. This way could have gave us an idea to how to bring everything together.

Testing (Combinatorial test design):

When we are developing tests for 4th assignment, I have function that has 3 parameters, I want to check if each parameter only considering correct string input or is it considering space, number and special character as input. I wrote 9 tests by alternatively testing for each parameter space, number and special character. After the CTD lecture, I changed my 9 tests to 3 tests where I was checked all the possible. See below table.

Before the lecture	After the lecture
T1: Func(number, valid2, valid3) T2: Func(space, valid2, valid3) T3: Func(special_char, valid2, valid3) T4: Func(valid1, number, valid3) T5: Func(valid1, space, valid3) T6: Func(valid1, special_char, valid3) T7: Func(valid1, valid2, number) T8: Func(valid1, valid2, space) T9: Func(valid1, valid2, special_char)	T1: Func(number, number, number) T2: Func(space, space, space) T3: Func(special_char, special_char, special_char)

Suggestions:

Software development as a Team:

When we started earlier, we had no Idea where to start. We though we develop everyone's part individually, and we can easily combine the code later, but everyone has different style of implementation, and it is hard to streamline everything once. I think you might have stressed on starting with one feature and make the program complex later, but it is better to stress it even more.

Easy landing into Software development:

I think it is better to have a first assignment a predefined common task. This would be easy getting started in JAVA programming. My self and few other peopled felt overwhelmed in the initial implementation.

We think apart from this only concern this course is nice. We learned a lot about practices and realized few of our mistakes from assignments and assignment feedback.

Thank you.