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Inf2C – Software Engineering 2016-2017

Coursework 3

Creating an abstract implementation of a restaurant order-management system

Personal project log

1.Plans:

Our plan was to separate the coursework phases and create a structure with several modules that we must pass consecutively. So we decided that:

- Firstly, to gather for a discussion over the skeleton code and to try and understand what we should do and how to do it.
- Next, to do the unit tests as they were the easiest part and 5% are 5%.
- We decided to go for pair programming for Phase 1 and Phase 1 Testing as this will give us higher level of understanding for the general requirements and how the system can and should work. As, unlike me, my partner had less knowledge for Java programming.
- Java doc in Menu.class is required for the 10% of code quality and best to do it after implementation is done. We also decided to go for creating assertions and logger info after we finish a phase.
- After we are familiar of the requirements and how we will construct our classes, if there are mediators or not, what methods and how to use them, we will try split programming. However, when one does a phase, the other makes the tests. I took Phase 2 implementation and Phase 3 testing. Daniel, took Phase 3 and Phase 2 testing.
- After we do the implementation we can do the report.

2. Achievements

- Saturday(19th Nov): We managed to understand the skeleton code! I had to explain lots of stuff to my partner. Was hoping that it will take us less time. (~4h)
- Monday(21th Nov): We did our first 5% by doing the unit tests. We had a discussion if we should continue with our idea for pair programming and then split the phases. We agreed to continue with this as it will leave more time for both of us. Then we decided not to have a mediator for the Menu and the OfficeKVM. Also stick with our previous report to have a `HashMap<MenuID, MenuItem>` for the Menu. (~2h)

- Tuesday(22th Nov): We finished Phase 1 and the testing for it. (~4h)
- Wednesday(23th Nov): We had a discussion about the classes and structures. Also checked Piazza for misses on Phase 1. Sadly, we forgot to the logging and JavaDoc. (~2h)
- Thursday(24th Nov): Managed to finish Phase 2. Prepared some tests for Phase 3. (~ 8h)
- Sunday(27th Nov): Daniel did his job well. His implementation passed my tests. We had a discussion for the Report and decided that he will do the UML Diagram and Test cross tables as he has lots of work to do and I will write the high-level documentation (he did the one in coursework 2) and implementation decisions. (suppose ~3h)
- Monday(28th Nov): I went to the drop-in and got answer on many questions. (2h)
- Tuesday(29th Nov): We gathered to connect the report and discuss what we want for testing. We did the systemFullTest which is not as good as we expected. We were hoping to have time for a longer one. Time to submit! (1h)

3. Reflections:

Everything went very good. To split the programming was a great idea, however would have been easier if we stuck with pair programming.

4. Overall Time: ~33h (includes thinking over the bugs and fixes we might need before falling asleep).