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<u>**Group 11**</u>
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<u>**Post Mortem Analysis**</u>

You should conduct a post mortem analysis of the project of your group assignment. Based on this analysis, submit a report focusing on the following:

1. **Which processes and practices did you use in your project?**
   We started working on this project using Scrum which is among branches of Agile method. The most important aspect of the Scrum methodology is Sprint meetings which we managed to utilize from the start till the end.Having a routine sprint meeting each two weeks with a provided backlog helped us to notice the progress of the project and gave us an overview for the next meetings. The backlog was full with the short term goals or those functionality that we could reach within 2 weeks period of each sprint meeting. On the first sprint meeting of the new group (Group 11 reborn) the Project plan and the Product vision was provided and developed by the group members in order to reduce time loss and have clear path to reach the goal of the project. Another practice that we had was the Social contract.

2. **Approximately, how much time was spent (in total and by each group member) on the steps/activities involved as well as for the project as a whole**
   We can not be precise about it but we normally had a 5 hours meeting three times a week and sometimes more or less in a week depending on the backlog and the workload that we have had for this semester. Beside the meeting in the campus we had the regular skyping time at night to sum up the

project with each other and clear the path.

3. **For each of the techniques and practices used (such as stand up meetings, pair programming, TDD, etc.) in your project you should answer all the questions:**

1. **What was the advantage of this technique based on your experience in this assignment?**

Scrum and Agile model:
Well, this was the biggest project that we have been working on so far, and as beginners we have started to put some high functionality features into the project plan which we weren't sure that we can make it or not, so we needed the Scrum and Agile flexibility to let us dance with the time and app both at the same time.
Another good aspect of Scrum was the sprint meeting.
Sprint meetings helped us to look at the big picture while doing the little details and do-able features in a short period of time which all of them together made the app to work in the way we imagined. Beside that, in each sprint meeting, we had a supervisor (Berima) who helped us alot and gave us really useful feedbacks and guide us into the right track.

Pair Programming:
Well, due to the the fact we were only a 3-member group(will be discussed on the fifth question) we couldn't use such method but instead we worked on everything all together which turns out to be pretty well. As an individual we didn't have enough knowledge to face each issue but when we gathered together bigger problem seems much smaller.

Social Contract:
If our first social contract was good enough we would have finished the project with 6 members and not with three so let's talk about it in the disadvantages part.

Easybacklog, Slack, Skype, Docs and other tools we used help us to overcome misunderstanding and have a better team work.

2. **What was the disadvantage of this technique based on your experience in this assignment?**

   Scrum:
   Scrum usually works the best for the big project and big groups. Although the project was big for us but we didn't have big group to work with so it was a little bit awkward at some point. Another thing that we would like to mention here was the flexibility of this method. As we said, this flexibility can be both good or bad for the group so it depends on you whether to postpone the deadlines or to meet them at right time.

   Social Contract:
   At first, our social contract did not have any specific penalty or deadline for those who miss a meeting or being late. Worst than that we just mentioned some of the rules verbally so after a while it seems that some members forgot them.

3. **How efficient was the technique given the time it took to use?**
   The technique was pretty much efficient for us. Even when we had a major change(will be explained in the fifth question) in the last sprint meeting, we managed to do what was required from us. If we didn't have that last sprint meeting, we could have had lots of problems and failed to bring up the app to meet the requirement of our course lecturers.

4. **In which situations would you use this technique in a future project?**

   We think we can get the best of this technique when there are many groups who all are supposed to do one big task and when your requirement might change in the middle of the process.

5. **In which situations would you not use this technique in a future project?**
   Probably when we do not have enough time to do the project or when some of the members do not like scrum or when we have lots of sprint meetings and the group members are living far away from each other.
   One more thing to mention is you really need a team with the stability and coherence to apply this method.

6. **If you had the practice/technique in a part of the project and not the entire project, how was using it compared to not using it?**
   As we mentioned earlier, we had that "All hand on deck" policy which helped us to do everything together. Let us give you an example; you want to go hunting with six people, it is reasonable to divide into two groups and start searching, you will be confident of each group because for each person, there will be two backups and the time won't be wasted as well. So now imagine to change this scenario with 3 people. If you divide them into three groups, not only the cannot hunt but also they will be hunted and after a little bit of time and you will end up with three failed missions.

4. **What worked well in how you worked in this project?**
   Although we really did not know each other, the teamwork was pretty good after we chose to reduce the team members to three. Partitioning the backlog, prioritizing the workload, meeting most of the deadlines, having a good and

understanding environment in the group were the other notable mentions.

5. **What did not work well in how you worked in this project?**
   Well, we can say that over the last few weeks our judgments were clouded and we lost focus on what was required from us and we started to working on the extra features rather than finishing the requirement first and it took a lot of time and we were basically in danger of failing the project due to the shortage of time. One more thing to mention is, we lost almost 20 days for the changes in the number of group members, one of them drop the program and the other one did not contribute at all, so we lost one sprint meeting and we wasted one more week to come on with the new product vision and project plan.

6. **Reflections over non process specific decisions?** During the last sprint meeting,we realise that we implemented a lot of unimportant feature which somehow looked like we lost the main focus of the project assignment. this made us worked extra to resolve it in order to meet the deadline.So when we look back at this, we realize we made huge mistake which could have cost us a lot.

7. **How did you work together as a group in the project? What worked and not in your interaction(s)?**
   Most importantly we had this strong understanding among our self and letting everybody to share ideas on the progress of the project. What didn't go well was the fact that we had a team with a smaller number of members so we were forced to go for the extra mile.Beside that we have lost almost three important week in the start, due to new formation of the group.

8. **What would you do differently in a future but similar project?**
   Most of us wanted to experience a real job environment and work with the people who we do not know, thats why we did not choose our group members in order to work with the people we do not know, but that did not worked out well. One member drop the program and the other did not feel to contribute to the team so for the next time, if we have the option for choosing the members again, we do what we have to do to avoid the unnecessary conflicts in future.