

Fontys University of Applied Sciences
Eindhoven, The Netherlands

Process Report

PROCP

AIRPORT LUGGAGE SIMULATION

Team IT Rockstars | XX-September -2020

Group E

Team members:

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Tutor: Mr. Emin Thaqi

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Week 1

Location: MS Teams

Minute Taker: Aleksander

Date: 9 September 2020

Time: 16:00 - 16:30

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

Nr	Agenda	Result
1.	Decide on the type of Simulation from the given choices found on the workbook.	The group decided to work on the Airport Baggage Simulation.
2.	Decide on a logo and name for our group.	The logo was designed and the group name was chosen.
3.	Dividing tasks.	We were able to divide tasks within the group for the project plan and Application Proposal.
4.	Collaboration Contract	Everyone in the group agreed and signed the collaboration contract.

Feedback from Mentor/Client:

- It is important to be very descriptive on the Process Report.
- We should use MoSCow method and have a clear, narrowed down goal.
- Remove the comments from Project Plan.

Previous Meeting objective

This is the first meeting.

Request from the Team

The group agreed with the Mentor to meet on MS Teams every Wednesday at 16:00.

Task Division

Task	Participant	Time Estimation.
Draft of the Project Plan <ul style="list-style-type: none"> - Project statement (client,project group ,way of working) & Team logo. - Current situation ,problem description,project goal,Deliverables & non deliverables - Project Constraints,Project Risks & Project Phasing(Critical Path/ Dependencies,Gantt chart,Activities Description) 	Obaid Fadi Ralia	16+
Application Proposal <ul style="list-style-type: none"> - Introduction & Summary - Features & Requirements - Milestones & Terms 	Delal Aleksander Emad	16+

Week 2

Location: MS Teams

Date: 16 September 2020

Time: 16:00 - 16:30

Objective:

Minute Taker: Ralia

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

Nr.	Agenda	Result
1.	Start with URS document.	The group has a draft of URS document
2.	Update the project plan and the application proposal.	The project plan was fixed based on Tutor feedback and the Application Proposal was updated.
3.	Design the GUI.	A mock-up design of the Simulation Software.
4.	Choose a task organizer and tracker.	Chose 'Trello' as our task tracker, created a board and invited every member of the group in it.

Feedback from Mentor/Client

- Instead of using Email for delivering, we should create a folder and invite Mr. Thaqi.
- Export and Save URS should be further explained.
- GUI:
 - Instead of login and register, maybe implement an admin panel
 - Inputs tab should be inside of Simulation tab, or use multiple windows(forms)
 - Split the toolbox in the simulation page.
- Replace Visio files in the document with images.
- Describe the data that will be used for the simulation.
- Start the process report.

Previous Meeting objective

Update Project Plan and Application Proposal.

Request from the Team

Use Google Drive as the tool for writing documents. Create a shared folder with Mr. Thaqi, also in G Drive for the deliverables.

Task Division

Task	Participant	Time Estimation
Update the Project Plan		
Start the URS <ul style="list-style-type: none"> - Functional(User&System and Non Functional Requirements) 	All of the group	8+
GUI: <ul style="list-style-type: none"> - Mockup Design (drawing) & Implement into Visual Studio - Research if we can implement the design using Unity C#, and VS for the code. 	Fadi , Aleksander	6+
<ul style="list-style-type: none"> - Use cases 	Emad, Delal,Obaid,Ralia	5+

Week 3

Location: MS Teams

Date: 23 September 2020

Time: 16:00 - 16:30

Objective:

Minute Taker: Fadi

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Aleksander

Nr	Agenda	Result
1.	Improve the current GUI	Two GUI which will be presented. After feedback we come up with a new one taking the best parts of the two designs.
2.	Plan of Iteration I	Started a draft of the plan of iteration I.
3.	Class Diagrams	Started a draft of UML class diagrams.
4.	Sequence Diagram	Started a draft of the Sequence diagram.
5.	Process Report	Started with the process report.

Feedback from Mentor/Client

- Which category of Moscow are the URS.
- Both GUI designs are good, choose one design and put some examples on the GUI and shrink the results box.
- Previous version documents shouldn't be deleted but put into an archive folder.
- The process report, the part about 'task division' can be based on our Trello board.
- Be careful of tasks which are dependent on other tasks.
- The plan for iteration 1 is good but the 2nd one should be more specific.

Previous Meeting objective

Apply the feedback provided by the teacher and start working on the Iteration 1, UML, Sequence Diagrams and Update the GUI

Request from the Team

Have a daily meeting on Monday at 16:00 on MS Teams to give each other feedback, decide future steps and divide the tasks.

We decide to choose the GUI in order to continue on other tasks.

Task Division

Task	Participant	Time Estimation
Scheme the UML class diagrams	Obaid, Emad	4+
Sequence Diagram	Delal, Ralia	3+
Process Report	All of the group	2
GUI	Fadi, Aleksander	4+
Research on Algorithms	All of the group.	5+

Week 4

Location: MS Teams

Minute Taker: Aleksander

Date: 30 September 2020

Time: 16:00 - 16:30

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

Nr	Agenda	Result
1.	Process Report	Showed the current Process Report.
2.	GUI update	Displayed the current GUI.
3.	Class Diagram	Present First Draft of Class- diagram
4.		

Feedback from Mentor/Client

- You guys did awesome, this is a very good start.
- Delegate the work division
- Schedule a standard team meeting (starts at 16.00)

Previous Meeting objective

- Refine the GUI.

Request from the Team

- As a team we decided to include a Drag & Drop feature to the project.
- Keep working on our given task.

Task Division

Task	Participant	Time Estimation
UML-Class Diagram	Obaid, Emad	4+
Sequence Diagram	Delal, Ralia	4+
GUI	Aleksander, Fadi	4+
Process Report	All of the group.	2

Week 5

Location: MS Teams

Minute Taker: Aleksander

Date: 07 October 2020

Time: 16:00 - 16:30

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

No meeting occurred

Task Division

Task	Participant	Time Estimation
UML-Class Diagram	Obaid, Emad	4+
Sequence Diagram	Delal, Ralia	4+
GUI	Aleksander, Fadi	4+
Process Report	All of the group.	2+

Week 6

Location: MS Teams

Minute Taker: Aleksander

Date: 14 October 2020

Time: 16:00 - 16:30

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

No meeting occurred

Task Division

Task	Participant	Time Estimation
Path dragging on grid	Obaid, Emad	4+
Design Document	Delal, Ralia	4+
Initial path finding	Aleksander, Fadi	4+
Work on Concept version of Plan for Iteration II	All of the group.	2+

Week 7

Location: MS Teams

Minute Taker: Aleksander

Date: 21 October 2020

Time: 16:00 - 16:30

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

No meeting occurred

Task Division

Task	Participant	Time Estimation
Implementation of models	Obaid, Emad	4+
Design Document	Delal, Ralia	4+
Initial path finding, path dragging on grid	Aleksander, Fadi	4+
Work on Concept version of Plan for Iteration II	All of the group.	2+

Week 8

Location: MS Teams

Minute Taker: Aleksander

Date: 04 November 2020

Time: 16:00 - 16:15

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

Nr	Agenda	Result
1.	Feedback sequence diagram	Showed Start and Stop
2.	Feedback on plan of Iteration II	Displayed Plan for Iteration II
3.	Show proof of concept	Showed code for Proof of Concept
4.	What is the unit tests od prototype	Question what was expected for the unit testing

Feedback from Mentor/Client

- Expected to see more than two sequence diagrams.
- Plan for Iteration II is good.
- Keep working on the Simulation.
- Answered question: Unit test is a code to test the methods of classes within a project.
- GitLab repository must be created.
- There will be a meeting next week.

Previous Meeting objective

Continue working on our Task.

Request from the Team

Task Division

Task	Participant	Time Estimation
Initial Dijkstra implementation	Obaid, Emad	5+
Assisting in Initial Dijkstra implementation	Delal, Ralia	5+
Research on animation techniques	Aleksander, Fadi	4+
Initial Dijkstra research	All of the group.	5+

Week 9

Location: MS Teams

Minute Taker: Aleksander

Date: 11 November 2020

Time: 16:00 - 16:15

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

Nr	Agenda	Result
1.	Show that the project is on GitLab	Displayed GitLab repository.
2.	Show everyone's branches	Displayed branches within GitLab repository
3.	Do a demonstration	Displayed code

Feedback from Mentor/Client

- Meeting of the 25th of November is cancelled.
- It is a good start to what we have right now but make sure to implement the features.
- It will be nice if we can make good progress this week to discuss them.
- Next week we will probably try to showcase at least the start button or the clean code what we have.
- We already have the bases but try to foresee what extra things we need.

Previous Meeting objective

Keep working on previous meetings feedbacks

Request from the Team

Task Division

Task	Participant	Time Estimation
Dijkstra implementation	Obaid, Emad	5+
Unit Testing Research & Sequence Diagram	Delal, Ralia	4+
Adjacent nodes and path finding	Aleksander, Fadi	4+
Process Report	All of the group.	2+

Week 10

Location: MS Teams

Minute Taker: Aleksander

Date: 18 November 2020

Time: 16:00 - 16:15

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

Nr	Agenda	Result
1.	Show the start simulation	Show code for Dijkstra implementation
2.	Feedback on added sequence diagram	Show Load and Save methods
3.		
4.		

Feedback from Mentor/Client

- Mr. Thaqi mentioned that there is no need to have an extra sequence diagram that the provided one and the sequence diagram is to help us in the implementation phase. If we need to have an extra sequence diagram it is up to us.
- Mr. Thaqi asked us Look at unit testing as a whole group and we mentioned that we are going to discuss as a group about implementing unit testing.
- In the next meeting we need to show some visualization of the implementation.
- Mr. Thaqi asked us to Update the process report and upload it on the files in the teams.

Previous Meeting objective

- Continue working on our Tasks.

Request from the Team

-

Task Division

Task	Participant	Time Estimation
WCF extension	Obaid, Emad	4+
Unit testing Research and test Implementation	Delal, Ralia	5+
Altered Dijkstra algorithm implementation	Aleksander, Fadi	4+
Process report	All of the group.	2+

Week 11

Location: MS Teams

Minute Taker: Aleksander

Date: 2 December 2020

Time: 15:20 - 16:00

Objective:

Attendees: Fadi, Delal, Ralia, Aleksander

Chairperson: Obaid

Nr	Agenda	Result
1.	Demonstrate Start Simulation	Demonstrate the simulation
2.	Show Unit Test	Show the Unit test
3.	Show Process Report	Show the Process Report.

Feedback from Mentor/Client

- Try to solve the panel problems quickly by week 13 at the latest.
- There will be no meeting next week.
- Keep the Process Report up to date.
 - Write comments on the Process Report. To specify if a task is done or not.
- Fix the explicit problems for the application to be working.
- Keep up with the meetings with each other.

Previous Meeting objective

- Work on the Unit Test.

Request from the Team

- Finish currently unfinished functionalities.
- Start working on other functionalities.

Reasons for Non-Attendees

- Sudden change in time of the meeting.

Task Division

Task	Participant	Time Estimation
Help with the Unit testing & Buggy pattern in the GUI	Obaid, Emad	6+
Finish working on Unit Test	Delal, Ralia	5+
Work on the buggy pattern in the GUI (for Simulation)	Aleksander, Fadi	5+
Process Report	All of the group.	2+

Week 12

Location: MS Teams

Minute Taker: Aleksander

Date: 9 December 2020

Time: 16:00 - 16:15

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

No meeting occurred

Task Division

Task	Participant	Time Estimation
Stop & Reset Simulation	Obaid, Emad	6+
Import and Export	Delal, Ralia	6+
ReWork the Grid	Delal, Ralia, Fadi	6+
Start Simulation & Drag n Drop	Aleksander, Fadi	7+
Process Report	All of the group.	2+

Week 13

Location: MS Teams

Minute Taker: Aleksander

Date: 16 December 2020

Time: 16:00 - 16:15

Objective:

Attendees: Fadi, Emad, Delal, Ralia, Aleksander

Chairperson: Fadi

Nr	Agenda	Result
1.	Show drag n' drop	We implemented click
2.	Show export of files	
3.	Show user can draw their own paths	

Feedback from Mentor/Client

- Try to solve the panel problems quickly by the next meeting at the latest.
- There will be no meeting next week.
- Keep the Process Report up to date.
 - Write comments on the Process Report. To specify if a task is done or not.
- Fix the explicit problems for the application to be working.
- Keep up with the meetings with each other.
- Import and export is working properly

Previous Meeting objective

- Work on the Unit Test.

Request from the Team

- Finish currently unfinished functionalities.
- Start working on other functionalities.

Reasons for Non-Attendees

- I was sick, and I had to go to hospital and the same was communicated with the tutor.
(Obaid)

Task Division

Task	Participant	Time Estimation
Help with the Unit testing & Buggy pattern in the GUI	Obaid, Emad	6+
Finish working on Unit Test	Delal, Ralia	5+
Work on the buggy pattern in the GUI (for Simulation)	Aleksander, Fadi	5+
Process Report	All of the group.	2+

Week 14

Location: MS Teams

Minute Taker: Aleksander

Date: 6 January 2020

Time: 15:45 - 16:00

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

Feedback from Mentor/Client

- Everyone should do Unit test

Previous Meeting objective

- Work on the Unit Test.

Request from the Team

- Finish currently unfinished functionalities.
- Start working on other functionalities.

Task Division

Task	Participant	Time Estimation
Statistic display	Delal, Ralia	4+
Moving balls, animation	Aleksander, Fadi	4+
Stop button, Reset button	Emad, Obaid	4+
Process Report	All of the group.	2+

Week 15

Location: MS Teams

Minute Taker: Aleksander

Date: 14 January 2020

Time: 16:00 - 16:15

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

Feedback from Mentor/Client

- Try finish everything before monday

Previous Meeting objective

- Fix the animation

Request from the Team

- Finish currently unfinished functionalites.
- Start working on other functionalities.

Task Division

Task	Participant	Time Estimation
Statistic display	Delal, Ralia	4+
Moving balls	Aleksander, Fadi Emad, Obaid	5+
Stop button, Reset button	Emad, Obaid	8+
Process Report	All of the group.	2+
Fix Git conflicts	Alex	2+

Week 16

Location: MS Teams

Minute Taker: Aleksander

Date: 18 January 2020

Time: 16:00 - 16:15

Objective:

Attendees: Fadi, Emad, Delal, Obaid, Ralia, Aleksander

Chairperson: Obaid

Presentation week

Task Division

Task	Participant	Time Estimation
Statistic display	Delal, Ralia	4+
Bugs has been fixed (Reset function, buttons, import)	Delal, Ralia, Fadi	4+
Bugs for animation has been fixed	Fadi, Alex	4+
Differentiation in colors based on different flights	Fadi, Alex	3+
Stop button, Reset button	Emad, Obaid	5+
Fix Git conflicts	Alex	2+
Process Report	All of the group.	4+

Mark Justification

We have been through lots of ups and downs, but I am afraid I found a single consequence that has had an inverse impact on our project particularly and on a team at large. The initial phase of a project was a huge blow because everything was brand new to everybody and indeed, we lacked experience of scrum too. Thus, we had no problems but challenges. And in order to tackle the challenges productively, we gave ourselves a bit of time, in fact, it took us a while till we figured out an optimum way to get the things done productively.

If there were anything more than 10, we would target that because of the fact that our team demonstrates extremely well not in planning but in implementation phases too within each iteration. For instance, our mentor was giving 99% with positive feedback and was happy with the outcome of weekly deliverables Secondly, we have provided with our client extra flexibility in the project in order to determine his/her check-in and check-out last but not the least we supplied the most significant and correct documentation where our professionalism yields itself. We focused on teamwork rather than individual delivery. We kept the team tight and united, stood work and supported each other. In short, we developed teamwork orientation skills rather than individualism. Considering all these, we would love to hear anything above 9.

Individual Reflection

Aleksander Sopiqoti

To be candid, creating a simulation application like our project takes a lot of effort and time. I would divide the difficulties in two categories: coding and team management. As far as coding goes, C# winforms, cannot be very useful graphically to display an animation. This made me a better developer. I think this because I had to build the animation and the algorithm from the ground up. Building everything yourself, even if it is hard because of time restriction, you know more about the code and if there is something to change I could change very quickly. Another thing that I learned is that I should stop making the same mistake of not commenting on my code, usually delayed fixing bugs.

As for the teamwork, me as project leader I would consider myself lucky to be part of this team with very highly motivated students and also lucky to have Mr. Thaqi as my mentor during this project. The advices were very helpful for some of the important decisions that we took for the application. Usually in previous projects, when I was project leader, I would have worked more myself, but thankfully, having brilliant teammates, everyone was up to task. In this type of situation I learned the importance of dividing the tasks and having regular meetings to get each other updated.

To conclude, this was one of the best projects that I have ever worked on and enjoyed . Not only did I learn but made new friends.

Bilal Delal Aktas

I did like the project and idea of “creating our own simulation”, where we could choose what we wanted to create and how we wanted to do that. Firstly, the most obvious thing that I discovered was the advantage of working as part of a group. I learned that good teamwork is the key to success in development activities when time and resources are limited. As everyone had their own ideas, and many different ideas could be produced, I found the energy of group participation made me feel more energetic and contributing something.

During this project I improved my C# skills , especially in graphs, which we didn't promise to develop. Furthermore, I managed to learn how to make Sequence Diagrams properly and Unit testing and the importance of testing in general. As a whole has improved a lot and I believe that this subject has helped me a lot with those I mentioned above. I managed to polish the way that I work with git.

Since most of the teammates as well as me, had other many subjects to study but eventually I believe as a team we did our best to achieve our ultimate goal and we developed everything we promised. Moreover, as a team , our group got on very well and we proved to be fast and effective when making our decisions.

Overall I believe that the subject has helped, at least me, a lot to solidify the knowledge acquired by the classes from the previous semesters

Emad Albouni

In a teamwork environment, everyone is in the group's success in general. I worked with my colleagues to complete a simulation project. Being the right team in roles is an important factor for. Team members with specific strengths and weaknesses. Our team formed from 3 core strengths to work the background for it from the summarizer, orienter, and cheerleader. Every member of our team is a leader in some way and gets input from everyone involved. Alex was a good leader, knowing how important it was to get the best ideas from every member of the group. The leadership role for our group, Ralia, was the summarizer of the team. She did a good job as a recorder / interviewer seeing how everyone is taking notes on team progress, team decisions, and any tasks to complete in the future. Mostly, we attend group meetings where we discuss any challenges, issues or problems. In these meetings, we often brainstorm or come up with new ideas with each other and come up with the best and most creative group solutions as potential answers to those perceived problems and especially during code implementation. We created a team agenda and at the end of the group meeting, our group recorder will then distribute copies of the responsibilities we share equally across the team to each team member. The third leading role for our team is orient. I think I was a good time watcher. For example, we have someone who facilitates a team meeting, someone who manages the agenda, and someone who keeps track of time and that was me :).

Fadi Abboud

I'm a motivated person who wants to try a new thing. This personality helped me a lot to stay on the track of the project. Besides, I don't give up easily. I go as far as possible until the things are done. In the first iteration all things seem impossible. But, with a lot of trial and error, and my group mates and tutor feedback and advice I managed my tasks. Without any hesitation our tutor, Mr. Emin Thaqi, put his full effort on our project. He is always friendly and positive. His personality was our backbone to finalize our project on time and effectively.

The traits that affect the project is the current situation Regarding the pandemic Covid19. It was more difficult regarding the communication. Besides, I am a person who grew up in a restricted culture, due to the fact that I had no social skills to communicate with people, and I do not dare to ask them questions. I thought this behaviour tracked me down to use my skill and ability in the project properly. However, now I have changed this behaviour due to my group mates' feedback and pieces of advice.

I learned a lot of things from this project. I acquired more knowledge and skills than what I learned in the class. The first thing I learned from this project is group work. We came from a different culture and background. I like harmony. I learned how I can work with international people. Secondly my main task was Designing the simulation with My teammate Aleksander Sopiqoti besides documentation. I learned how to write a professional project plan and to write a plan of iterations for the agile methods. I also learned from the advice of Mr Emin Thaqi and the help of my teammates how I can improve the design of the simulation. I have also worked on the animation in C# with My teammates Aleksander Sopiqoti, Ralia Larmonie and Bilal Delal Aktas we were always communicating using Ms teams to share our knowledge and thoughts. I am grateful that I was part of this team and this project. I am especially grateful because I worked with my teammates who did not hesitate to help each other and help me and did everything so that the project succeeded. I also mention Mr. Taqi, who always motivates us and provides us with advice to finish the project on time.

Ralia A. Larmonie

In this project we decided to work on an Airport Simulation. Which seems very straightforward but we quickly realize that we all had a different view of how the program should work. So, this was the part where we had to use our soft-skills and/or work on it. Since we should be able to communicate with each other without crushing the spirits of fellow-team-members as well.

We also had to work on our management skills. Which I would admit was not the best at the beginning. Since, at the beginning we did have different views on what the end program should be. Which also made the division of the task a bit difficult. But we did manage to communicate with each other if you had questions or if you are stuck somewhere you could always ask for help and/or feedback.

We did our best to work professionally in our meetings by letting everyone be aware ahead of time if one of us were unable to attend a meeting or if rescheduling was necessary. Overall, I would like to say it was a great team effort, even when we got stuck in certain areas of the program for a deceptively long time. We managed to pull it through together.

Obaid Ghafoori

It was a nice teamwork and awesome journey. Overall, I have learned a lot from this project. To be more specific I would conclude them in two categories. They are termed as hard skills and soft skills. The first category improved the ability to put all the knowledge that I have gained so far into practice, give me a broad picture of the engaged subjects. It was right from writing necessary documentation to all computer languages/ technologies that we have used in the project.

While in the second category I have learned and developed the skill how to handle the pressure and stress, how to gap cultural difference within the team, strategy of looking into the problem from a different angle and realizing the importance of planning and last but not the least prioritizing things as per the requirements and needs are a few to the name of my learning moments

I thank my colleagues for their sincere contribution and appreciate their efforts that they have put into the project. A special thanks to Mr. Thaqi for his inspirations, insights, instructions and especially patience to work with us and make this project possible.

Evaluation of Spent Effort

Name	Time (in hours)
Aleksander Sopiqoti	137
Bilal Delal Aktas	137
Emad Albouni	136
Fadi Abboud	139
Ralia A. Larmonie	137
Obaid Ghafoori	136
Total:	822 hours