



Software Solution

Media Bazaar

Process Report

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R10 2.60 OIL

Client: Media Bazaar

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Supplier: Code Commanders

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Work division

Task	Member
Documentation	All members
Application design	Nyambe Imasiku, Samuil Kozarov
Login Page	Kristof Szabo
Product Manager	Ivan Anastasov, Alexandru Mazilu
HR Manager	Samuil Kozarov
Database setup	Samuil Kozarov , Ivan Anastasov
Database connection	Kristof Szabo, Samuil Kozarov, Ivan Anastasov, Alexandru Mazilu
Implementation of encryption algorithms	Samuil Kozarov
Automatic Schedule generator	Samuil Kozarov
Depot Manager	Nyambe Imasiku, Alexandru Mazilu
Depot Worker	Alexandru Mazilu, Nyambe Imasiku
Sales Representative	Nyambe Imasiku
Edit user details page (Web)	Nyambe Imasiku
Forgot password (Web)	Alexandru Mazilu
Mark unavailability (Web)	Alexandru Mazilu
Update password on first login (Web)	Samuil Kozarov
See schedule (Web)	Ivan Anastasov

Request shift exchange (Web)	Alexandru Mazilu
Log out (Web)	Ivan Anastasov
Changing personal details	Ivan Anastasov
Shift trades	Samuil Kozarov
Product Scanner	Ivan Anastasov
Clock in/out	Ivan Anastasov

Personal reflection

Alexandru: This project not only tested my skills and capabilities, but also pushed me to grow and learn new things. I learnt how important having good communication is, and to understand the cultural differences between the group members. Also, about how these things influence the progress of a project. What I would like to improve on in the future is to talk more during the meetings instead of taking more of a backseat. Also, I want to improve my communication and talk more with the team members. Good communication will also ensure that the tasks are split equally, which was an issue in this project. In the future, I will make sure to take on more tasks to show what I'm capable of.

Samuil: This project was a real challenge for me as it required me to dive into the real work and quickly get used to how the communication between different business organizations and partners work. In this case on one side was the group of the product providers and on the other was the client. Both sides were supervised by the tutor. In my opinion we did a great job with the final product and hopefully satisfied the expectations of the client and the tutor. Working in a team has its both advantages and

disadvantages. On one side it is a great experience when it comes to cultural exchange and communication within people with similar interests. In my opinion we started well, each of us had different ideas and ways of reaching our final goal. This was a great motivation for the whole group as the atmosphere of all group members desiring to reach our final goal in the best way possible was all around us. On the other hand, it has its disadvantages as well such as different personal goals, priorities and contribution. When it comes to all these, I think that there is a field for improvement for our group. Through the working process we struggled with some miscommunication and different priorities, but I think that we can tackle all these issues for the future. Last but not least, we also had some issues with regular meeting attendance, which I think can be improved in the upcoming 12 weeks. Overall, I enjoy being part of the group and believe that we can collaborate better and move much more easily, quickly and straight to our final goal.

Ivan: Being part of this group has helped me improve my abilities and meet new people. I believe we did a good job with the project and we learned a lot about documentation. We could've had better communication, people were rarely announcing that they would not be coming and our task distribution could've been better as well. I personally should be more talkative and take more initiative. Overall, I enjoy being part of the group and I believe we will succeed with the project.

Nyambe: Working in this group allowed me to meet new people and learn from them throughout the project, especially the skills I didn't have before. Their contributions and efforts are very inspiring and motivating for me to work harder, and challenge myself a little more. In the future, I would like to improve the task distribution. We distributed the work based on each person's strengths and weaknesses, this meant I didn't get to contribute as much on the implementation aspect of the application as everyone else, despite being capable of doing so. Moving forward I intend to take on more implementation tasks to show I'm also capable of the skills I didn't show in the first part of the project.

Reflection about applying waterfall

Strengths

- **Good structure:** The defined structure of the waterfall method was really clean and well organized. The distinct phases helped us keep the project on track, and organize our tasks accordingly.
- **Clear documentation:** Having well-structured documentation ensures that there is a clear understanding of the project and its requirements, which prevents confusion and sets a clear objective.

Weaknesses

- **Limited flexibility:** Going back to make a change late in the project is very challenging, having to revise everything previously made, modify documentation and disrupt the flow of the project.

Personal reflection (2)

Alexandru: To reflect on the second phase of our group project, I feel a great sense of accomplishment and personal development. Our teamwork

and collaboration have improved a lot compared to the first phase. Communication notably improved, becoming more focused and productive. Also, a big improvement was in task distribution. Unlike the first phase, where it was uneven, we made sure to allocate responsibilities fairly among team members, enhancing productivity and making sure everyone works according to their strengths. The GitLab issue board was a significant help in our work, providing a clear representation of the tasks. This ensured that no issues were overlooked, and each task was properly tested before being marked as completed. Looking forward, I'm excited to continue working on this project and expand my skills and knowledge along the way.

Samuil: For the second part of the group project I believe that we did a great job. We managed to improve our communication and work together as a real team. Each of us had his own responsibilities and at the end all different paths gathered towards the final product. Compared to the first part, the communication is now much better, however the field we have gone through the biggest improvement is task distribution. While in the first part tasks were not distributed equally and some had to do more than others, for the past six weeks all the jobs were equally assigned to all of us and we all knew what each of us was responsible for. Furthermore, in order to track our progress and tasks better we used the issue board available on Git Lab. By doing so, we knew who to refer to if any errors arose within the software product.

Ivan: During the second part we definitely improved in a lot of areas. We now had a better task distribution by using Git issue boards, after a meeting with a client we would immediately divide all the new tasks we were given between each other. We started changing who leads meetings and who writes down the minutes during the different meetings and after the meeting we would all together prepare the minutes and agenda for the next meeting and send them. In general, we are improving more and more and I have good faith we will succeed in this project.

Nyambe: I believe our collaboration has improved significantly during the second phase of the project, mainly because we've become more organized, especially in planning and task division. Each team member was aware of their responsibilities and deadlines at all times. After each client meeting, we started having a weekly session to divide new tasks based on the updated requirements from the client. This approach was very effective and helpful, especially for me because it allowed us to plan while our client meeting discussions were fresh in our minds. Another good improvement was our communication with the client. We began planning our questions and agenda in more detail before our meetings and made sure to take notes during the meetings. This helped us create tasks after the meeting and identify the priority levels for each task. While there is still room to improve, our progress since the first phase is clear, and we're looking forward to making even more improvements in the future.

Reflection about the difference between Waterfall and Agile

Learning and Adaptability:

- Waterfall: Following a structured Waterfall approach provided a clear roadmap at the beginning of the project, which was helpful for us. However, it limited our ability to adapt to new requirements.
- Agile: Agile encouraged us to continue learning and adapting, which aligned well with the dynamic nature of software development. We had to put more accent into prioritizing tasks, and being more responsive to the client's feedback.

Team Collaboration:

- Waterfall: Roles and responsibilities were defined upfront, declaring a leader and tasks were distributed at the beginning, and because we worked on them for 6 weeks we didn't know how long each task would take, so they were distributed unequally between team members. This limited collaboration opportunities and redistributing tasks.
- Agile: Agile is more focused on team collaboration. Tasks were distributed equally because they were smaller and clearer, and also they were distributed each week and in a way that would help everything come together.

Feedback Implementation:

- Waterfall: Feedback was harder to implement as all the tasks were given at the beginning, and changing something meant updating a lot of other things that would take a lot of time.
- Agile: With agile, we would implement the feedback weekly, and demo the application so we are clear that the client's needs were met. This helped us easily make improvements and be more clear with the end result.

Time Management and Deadlines:

- Waterfall: Waterfall had one deadline, at the end of the 6 weeks, but it felt stricter, because everything needed to be perfect by then, and this created a feeling of urgency that impacted the team's morale.
- Agile: In agile it was easier to manage time effectively, meet the goals and adjust priorities based on the situation. Tasks were always not too many, so they could be finished in a week, and anything that wasn't done right could be improved by the next week.

Personal reflection (3)

Alexandru: The third part of the project went really well. We managed to improve our communication, teamwork and time management even more. There were unexpected challenges but we managed to overcome them by tackling them as a team and quickly managed to get back on track. The tasks were divided equally between us and they were always finished on time. The GitLab issue board helped us a lot in order to effectively track the progress of tasks, and as soon as we got new requirements we always added them there. All in all, I am very happy with the progress we've made and the final product.

Samuil: Throughout the third part of the group project I believe that we did a great job. We managed to improve our communication even more than before and really work as a team. Even though we faced some challenges, we tackled all of them and by distributing all the tasks within us we managed to finish all the client's requirements on time. Each of us had his own responsibilities and at the end all different paths gathered towards the final product. In order to track our progress and tasks better we used the issue board available on Git Lab. By doing so, we knew who to refer to if any errors arose within the software product.

Ivan:

For the third part of the project we definitely improved even more. We managed to complete the tasks we divided between each other without much issue or delay. We continued communicating well and always managed to have our client and tutor meetings. We divided our tasks well and kept track of them on the GitLab issue board. Overall I believe we

managed to make a good application to be a solution for the client's problem.