

PSV Dynamic Audio PORTFOLIO

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Knowledge and Insight

In this section I provide an overview of knowledge that I possess and how I am likely to use that knowledge to make this project a success at the end of my internship. There are several categories that I will focus on in this section including analysing, managing, designing and implementing the project. I have shown these skills in my previous school projects before starting this internship and using these skills I can lead to a successful completion of my internship project.

Management

I have finished my second year of studies at Fontys as a result of that I have done a few group projects in a group of 3-4 students. I have one year of experience of working in a group and leading a group as well. I was the group leader of my previous two projects where I was In Charge of managing the project and taking important decisions for a successful project. I have managed to deliver a good product with my team in the given time for those two projects.

Also, I am familiar with project methodology such as waterfall and Agile, I have used Trello and git as a way of working in a project where we created scrum board, thus I have one year of experience working with scrum, I have attended three Scrum workshops. and have enough experience with Scrum board and assigning task and duties. My intentions are to use scrum in my project to create a solid way of working and develop a useful product at the end of my internship.

Analysis & Advice

One thing I have learned during project work and from my teachers at Fontys is that it is important to analyse the assignment first before diving straight into the implementation phase. It is important to define Project Statement, scope and understand the problem. Courses like POPD helped me understand that well.

For this project I have same plans to analyse the project before diving into implementation, I am planning to use my analysis skill to specify the project statement, project goal and define the scope of the project as clear as possible in the project plan [[see Appendix 1](#)] which is done during the first few weeks of the internship. Although it might keep on changing but I will do my best to have a concrete goal and work towards it. I thrive to improve on my analysing skills as opportunities come during next six months.

Design

Also, for design, each project I worked on the design, whether its software design or database design. I am experienced in designing software, I have made a lot of class diagrams, sequence diagrams, data flow diagrams, ER Diagrams and so on. I am skilled in designing software and databases, I would be using this knowledge to for the designing phase of my project but also try to learn new things, there would be a lot of new thing that I will face which I have not faced before. My plan is to make good design from start and then improve it with the help of continuous feedback. A software needs to be created for PSV which has a huge database, I think my database designing skill will help me analysing the database and make required changes during the whole process.

Implementation

When it comes to the implementation phase it is always tricky if you do not have a solid plan, I have enough experience in implementing my designs and follow my plans, as I am already experienced in working with a team and it will not be the first time where I implement new stuff for the project. My

internship requires me to have programming skill to implement the software that is required for PSV, I have a lot of experience in that here are some technologies I have worked with in past:

- Java and Rest API
- Angular
- Vue JS
- C#, C and C++

I plan to use Java in my project as I am the most comfortable in it and I have developed most of my personal projects in java, I am also very familiar with web development and If I get a chance to design a web application, I will not miss that. For that reason, I have decided to make my portfolio in the form of a website as well and all the details of the internship can be found there. Also, I am looking forward to learning something new that I have not used in past, I would like to improve my skill and learn new ones from my team members.

Project Knowledge and Insights

I have divided my project into a few phases to easily keep track of the progress I made in every phase. I have a web portfolio ready so for all the sections I refer to the part where it can be found.

Management

As I am already familiar with Agile, it worked in my favour that the company's core way of working is also Agile, I have good idea of how to move the project forward. As I am working in a team it is very important that we divide our task wisely. Our development team consist of 3 people one person is comes from a software engineering background and another one is a media designer; both are doing their internship at greenhouse. It was easy to divide task as we created a SCRUM board on trello board. I have rest of the information on my website Please refer to that. [\[see Appendix 1 & 2\]](#)

Analysis

Before starting the project, it is important that we understand what technologies can be used to in order to reach our goal. We conducted a thorough research on what is the best solution for PSV. At first Greenhouse gave us enough time to understand the properly even before making the project plan, at office we did a situation complication workshop, then a trend research workshop and presented our finding to all other interns as well as our team Leader. [\[see Appendix 3\]](#)

Advise

Based on my finding s during my internship for the initial concept I have made a detailed advisory report on which technologies can be used in order to achieve the voice cloning.

Also, we have created a new project plan for the final concept which came in late in December, but we have mapped out the features that need to be in the final concept and things that must be included in the new concept. [\[see Appendix 4\]](#)

Design

After creating the project plan, we started working on the concepts which not only will be implemented but also provide some value to PSV. More on the concepting phase on the website portfolio [\[see Appendix 5\]](#)

Implementation

While not being able to come to a conclusion with PSV on what the final concept should be, I was busy developing small prototypes/ PoC that allows me to show PSV what is possible with the technologies I am working with.

I have created several prototypes during my project before coming to a concrete concept that PSV want us to develop. Find all those prototypes on my portfolio Website. [\[see Appendix 6\]](#)

Now we have a concrete project, we are working on it but due to time constraints that is not finished as of now, but we will be working till the end of January to create a solid Hi-Fi Prototype so that very little is left for PSV in the implementation. Final product will be shown in the final presentation.

Communication

As it was a team project, most of the communication was done between the developers but there were also weekly meetings with client and team leader. More in the website portfolio and in project plan. [\[see Appendix 7\]](#)

I was lucky to have spent some days at office which really boosted my confidence and gave me a better environment to work at but after another corona strike, I was forced to work from home and later all the communication was done online via MS teams.

Judgement

I tried to be as structured as possible, during my internship. Now that I have time to look back, I see that the research was very well done and we stuck to the core concept and helped the company a lot with our concepts and prototypes. For More details, Please check the web portfolio. [\[see Appendix 8\]](#)

Learning Ability

During the project I worked in a team and tried to be better every day. One of the perks of working in a team is that you get to learn a lot if you find good teammates. That was exactly the case for me, I and my team were always dedicated towards our project and worked together as a team to ensure success. I wrote a self-evaluation on my website, please check that out, Also I received some feedback from my peers which is also available on the portfolio. [\[see Appendix 9\]](#)

Appendices

These are the supporting files and can be found on:

1. Website (<https://amansharma.site>) or locally on index.html in Internship portfolio folder
2. Appendices folder.
3. Table content shows the attached files/webpage.

Appendix 1

Management

Reference	Type
Project plan for school	PDF file

This was the initial project plan that was approved for the internship.

Appendix 2

Analysis

Portfolio is up on: <https://amansharma.site>

Reference	Type
https://amansharma.site/scrum.html	Web page
Scrum.html	Local portfolio folder
project_plan.pdf	PDF file

Appendix 3

Analysis

Reference	Type
Situation Complication.pdf	PDF file
Initial Research PSV.pdf	PDF file
Project Plan.pdf	PDF file

Appendix 4

Advise

Reference	Type
Advisory report.pdf	PDF file
project_plan.pdf	PDF file

Appendix 5

Design

Portfolio is up on: <https://amansharma.site>

Reference	Type
https://amansharma.site/concepting.html	Webpage
Concepting.html	Local portfolio folder
project_plan.pdf	PDF file
https://amansharma.site/development.html	Webpage
Development.html	Local portfolio folder

Appendix 6

Implementation

Portfolio is up on: <https://amansharma.site>

Reference	Type
https://amansharma.site/development.html	Webpage
Development.html	Local portfolio folder
Technology research document.docx	DOCX file
Prototypes	Zip file

Appendix 7

Communication

Portfolio is up on: <https://amansharma.site>

Reference	Type
Project_plan.pdf	PDF file
https://amansharma.site/scrum	Webpage
Scrum.html	Local portfolio folder

Appendix 8

Judgement

Portfolio is up on: <https://amansharma.site>

Reference	Type
Advisory report.pdf	PDF file
Project_plan.pdf	PDF file
https://amansharma.site/research	Webpage
Research.html	Local portfolio folder

Appendix 9

Learning Ability

Portfolio is up on: <https://amansharma.site>

Reference	Type
https://amansharma.site/evaluation	Webpage
evaluation.html	Local portfolio folder
https://amansharma.site/peers	Webpage
peers.html	Local portfolio folder

https://amansharma.site	Website
Index.html	Local portfolio folder
https://amansharma.site/scrum	Webpage
Portfolio complete folder	Folder