

Project Planner

PECZARB

WTS



Version 1.1

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PROJECT WEBDEVELOPEMENT AND DESIGN

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Version

1.1

Client

Gerjan van Oenen

Organisation

PECZARB

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Background

E3T

The “talent show” company of E3T was initially founded by a friend group of 3. The group was disbanded due to problems that occurred within the company. As of now, the company is currently being run by CEO Mr. Gerjan van Oenen. The company was finalized just 6 months ago, on the 11th of May 2022. Although the Company was officialized recently, they already had the necessary license 2 years prior. With a staff size of 15 people, and the support of the municipality of Emmen behind them, they are currently located in one of the calmer cities of the Netherlands, Emmen.

Their dream of making a bridge between talents from all over the Netherlands and the customers started inside a living room as an idea. Now they are taking a big step into the future with the introduction of an online database for the talents and customers to meet each other.

PECZARB

The software company “PECZARB” was founded by a group of friends 2 years ago, on the 29th of February 2020. They combined every member’s initial together to come up with the name. The company was originally founded as a cure for the boredom of the founding members, then it quickly picked up attention from all over the globe. Now PECZARB works as a third-party software company to complete all projects related to software engineering all around the Internet.

Project result

The goal of the project “Web-infrastructure Talent Show” is to develop a new system for the client so that the current paper-based setup will be replaced with a new digital one. The project also includes the development of a web-based application in order to access the new system.

While on the way of achieving the goal, the team also wants to deliver some intermediary results. See *intermediate results* section.

PECZARB agreed with the client to hand the project in within a 9-week period. To get some more insight into project boundaries, please refer to *project boundaries* chapter.

Project activities

List of project activities:

- Conduct an Interview with the client
- Create the Project plan
- Prepare the Risk analysis table
- Researching the most optimal webpage layout
- Designing the webpage
- Conduct the usability test for the webpage
- Incorporate the feedback from usability test into the page design
- Researching of the most optimal database
- Designing the Network
- Conduct the usability test for the Network
- Incorporating feedback from usability test to the network

Server activities

- Installing FTP
- Assigning user rights
- Configuring Net plan
- Installing Nginx Server
- Adding groups and users
- Assigning file permissions
- Changing hostname
- Installing PHP modules
- setting up a folder for the webpage
- Securing the webpage using .htpassword
- Creating ssh connection
- Connection between MariaDB and server
- Installing and connecting phpMyAdmin

Data Base

- Coding of the database
- Have the right users so admins etc.
- Installing MySQL
- Assigning the right permissions
- Creating the ssh key
- Testing the completed network

Webpage

- Coding the front end for the webpage
- Coding the back end for the webpage
- Integration of the database and the webpage

Final

- Final quality check
- Presenting the product to the client

Sufficient activities have been defined and none have been omitted. They are also grouped and assigned evenly between team members.

Project boundaries

Project length:

The project is going to last for a period of 9 weeks, starting on the 7th of November 2022 and ending on the 20th of January 2023.

Project width:

There are some elements that are not included in this project. For example, outside links related to events (like police or health department) can be excluded. Any information that has not been checked with our client should not be displayed on the page.

Success conditions:

1. Working product
2. Good teamwork
3. Good communication among team members
4. Active participation of team members and the client
5. Deadlines must be met
6. Timely attendance to team meetings
7. Strictly following the rules laid out in the code of conduct
8. Up-to date version control
9. Successful presentation

PECZARB had its first interview with the client on the 9th of November. With the results of the first interview, it is possible to determine the exact idea of the project and to have a better representation of intermediate results.

The team is aiming:

- To provide the client with a project plan by Friday, Week 1.
- To hand in proper requirements analysis report by the end of Week 2. With the report, it is possible to start building the overall structure of the product.
- To have an approved functional design by the end of Week 3.
- To present first iteration of the web-application's design within the Week 5.
- To have a usability test done by Week 4-5.
- By the end of Week 5, the team is expecting to get the client's overview of the work that has been done so far. It is always PECZARB's priority to get clients' independent opinion on the ongoing progress.
- To provide network drawing as per Week 5. The drawing will be done using Microsoft Visio.
- The overall infrastructure is expected to be delivered as per deadline of Week 8.

To ensure the quality of the product to be delivered, the right requirements were gathered. The goal is for the project to stay on track during the allocated time.

Before the work begins, the client needs to be assured that the quality of the product will meet their standards. This will be done by employing various methods of determining the quality of the product, and methods of ensuring the consistency of quality in the product.

Communications will be kept as a priority in the team. With the proper use of communication methods between team members, a near errorless work environment can be set up for the project team, therefore ensuring quality of the final product. The use of normalized software and programming languages will be made a requirement between team members in order to ensure information consistency to further aid the quality of the end product.

List of the standardized software that will be used throughout the project:

Planning: Microsoft Planner, onlineGantt, minutes of meetings

File sharing: Microsoft OneDrive, WhatsApp

Word Processor: Microsoft Word, Notepad

Web development: PHP, HTML/CSS

Database: MariaDb, MySQL, phpMyAdmin

Network: Microsoft Visio

Operation systems: Ubuntu Server, Windows

Weekly meetings with the client will be organized which will provide an opportunity for feedback and evaluation of the current product from the client. During the weekly meetings the current stage of the product will be presented with any necessary supporting materials to the client. This will be followed by an informal discussion of the current product that will be recorded, to eliminate miscommunication between the client and the project team. The possibility of conducting an external review of the product will be discussed with the client to further ensure the quality of the final product.

The implementation of quality examinations will be in the form of cross-referencing the designs with the brand book of PECZARB in order to ensure that the design requirements are met and therefore meeting the quality standards for the product.

In case of a team member being absent the team will make sure to divide their work adequately throughout the group. For more information about the risks please refer to the risk analyses chapter.

Each member has their own task. The team will be divided into 3 teams. One team of 3 and two teams of two.

Team Web development: Caterina, Zsombor, Hakan.

Team Database: Bernardo, Paul, Ayomide, Rares.

Team supervising: Bernardo, Rares, Zsombor.

Rares has taken up the role of the team leader. The leader responsibilities are to give up roles to his teammates, to make sure the project will be finished. He is also responsible to make sure the team conduct is being respected. It's his responsibility as well to arrange meetings with the meetings the client.

Zsombor is the secretary. He must write down what has been discussed in meetings, while also participating in it. Bernardo is the adviser, he must help the leader with the decision-making process. He helps the team members with their difficulties, he also makes sure that everything is up to the standards. It is important for him to provide an objective point of view on the work that was done.

PECZARB has a WhatsApp group where they communicate with each other. In addition, they communicate via emails as well.

Time sheets and planning has been arranged from the beginning using Windows planner and an excel sheet where PECZARB write down what they did when on what day. Plus, the hours they wrote.

Weekly reports will be made with the excel and with weekly meeting with the partners.

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The availability of PECZARB has been documented every meeting. Team members' attendance at project meetings will be noted, and those who are not present will be warned. PECZARB will be available during school hours precisely during atelier hours throughout the week. Most of the weekend work will be done as well. So, the team will be available during that time as well. The competences of our group have been established and will be worked on with given tasks. Being able to tackle these challenges will then help us grow and work in our weaknesses.

It is especially important for PECZARB to be able to communicate internally, being able to give out tasks and being able to ask when help is needed. It is important to be able to complete our objective. Tasks are delegated with time sheets and are given to every member to be able to uphold said task in the given period.

PECZARB can come to an agreement with the client to have a weekly based meeting to check and update if the product made by PECZARB is matching the preference of the client. Said weekly reports are made by the secretary of

PECZARB. PECZARB archives all their reports to check back on those reports if something were to come up. The team communicates with the sponsor using email.

Costs and benefits

Benefits of the projects

Several categories of benefits will come with the success of the project. One of the main benefits will be definitively financial. Hopefully, with the immense increase in attractions organized in Emmen, more tourists will be attracted to the city, and thus the city will get an increase in financial aid. Other than finance, the attractions will gain popularity, which would be the perfect advertisement for the city of Emmen.

When the project reaches success, it will come with several different benefits, the major benefits being financial, advertisement purposes, and entertainment in general.

The financial benefits will surface with the introduction of the database, there will be several new attractions available in the city of Emmen. Some of them are bigger and include sponsors such as the municipality, while some of them will be private with just small groups of people or just individuals. It won't just be the residence of Emmen who is going to be contributing financially, with such big events planned, it will attract tourists from all over the globe who will also contribute financially. With all the newly arrived tourists and the events organized, it will also serve as a good advertisement for both the company and the city of Emmen.

Costs

Regarding the costs of the project, there will be a drastic increase in the money spent. Two different types of budgets will increase.

For the costs of the project, PECZARB charges 50\$ per hour of work when building a database with several functionalities, which comes up to 45500\$^[1] for the entire project excluding the maintenance cost of 500\$ every 6 months.

The other budget increase will occur on the government's side, with the increased tourist activities. The traffic, garbage, air pollution, and crime will also increase. To battle these changes around the city, measures must be taken by the municipality to ensure safety and a healthy living environment for the citizens.

[\[1\]](#) 50\$ x 7 people x 130 hours of work =45500\$

Risks

The client requested the analysis of risks to be thorough but not overcomplicated. They have asked for only the main risk factors to be considered. There are 5 different parts of the analysis. Time factor, complexity of the project, the project group, the project management and the project definition. The result of the analysis concluded a 23% risk of failure. Most of the risk comes from project complexity and project management, which accounts for two thirds or 67% of the total project risk which could be looked further into in order to limit these risks.

Risk	Value	Factor	Weight	Total Risk
<u>Time factor</u>				
Estimated duration of the project	0-3 months	0	4	0
Does the project have a definite deadline?	yes	4	4	16
Is there sufficient time to complete the project within the set time?	enough	1	4	4
<u>Complexity of the project</u>				
Is it a new project or has it been adopted	New project	3	5	15
What sort of reception will the users likely to give the end product?	Enthusiastic	0	5	0
Has the project been divided up into phases and is	Strongly	3	3	9

progress dependent on the coordination between them?				
<u>The project group</u>				
Where do the project workers come from?	Mainly internally	0	4	0
Where is the project located?	1 location	0	2	0
The balance between subject experts and project experts	average	2	5	10
Are the users involved in the project?	To a reasonable extent	1	3	3
<u>The project management</u>				
Does the project management team have any knowledge of the subject?	A reasonable amount	2	3	6
Does the project management have any knowledge of how to plan a project?	A reasonable amount	2	3	6
How much experience does the project manager have with projects like this?	A little	3	3	9
Do the advisers have any knowledge of the field of research?	A reasonable amount	1	5	5
Do the subject experts have much knowledge of the field?	Reasonable amount	1	5	5
How involved in the project are the managers responsible for it?	Very	0	5	0

Is there any chance that the project team will change during the project?	Little chance	0	5	0
Is the project group using existing methods or creating its own methods?	Only existing methods	0	4	0
Project definition				
Are the project members sufficiently aware of the problems and objectives?	Yes, everybody	0	5	0
Is the field of research sufficiently demarcated?	yes	0	5	0
Has enough time been reserved for coordination and decision-making?	considerable	0	4	0
Are the boundaries clearly demarcated?	yes	0	4	0
Are the boundaries limiting enough?	yes	0	5	0
Total			355	82
Total Risk Percentage	23%			