VILNIAUS KOLEGIJA UNIVERSITY OF APPLIED SCIENCES FACULTY OF ELECTRONICS AND INFORMATICS



SOFTWARE DEVELOPMENT MANAGEMENT

PRACTICAL ASSIGNMENT PROJECT WORK 6531BX028 PI18E

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1. PROJECT IDEA, GOAL AND SCOPE

1.1. Idea

Project idea would be a clothing e-commerce shop.

1.2. Goal

To create ecommerce website that provides clothes and quick & easy checkout for its clients

1.3. Scope

- User should be able to login/register
- User should be allowed to order clothes.
- Browse products (clothes)
- Should be able to add products to cart and be able to pay for them
- Should be able to see order status.
- Should be able to checkout items with a credit card or PayPal.

1.4. Stakeholders

- Project owner.
- Customers.
- Team members.
- Sellers.

1.5. Implementation location and time

2021, Vilnius University of Applied Sciences, using virtual tools like MS Teams.

2. PROJECT SCHEDULE AND BUDGET

2.1. Work breakdown structure (WBS)

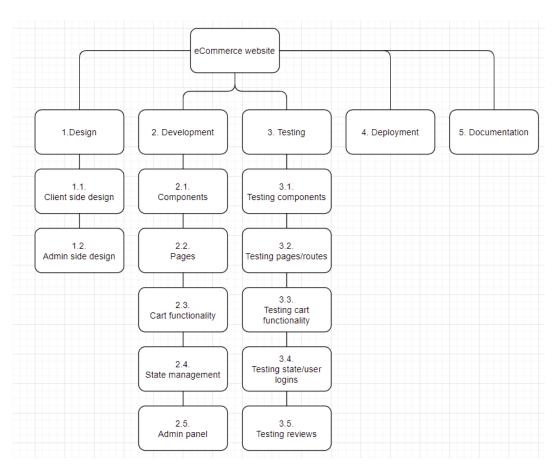


Figure 1 – WBS

2.2. Network Diagram

2.3. Project tasks, their duration and dependencies

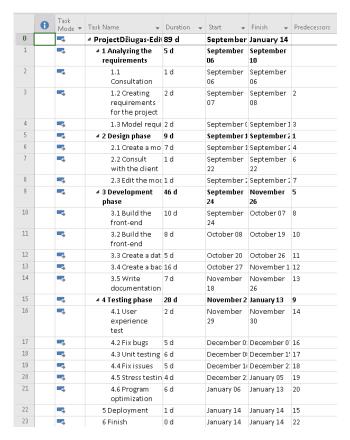


Figure 2 - Project tasks, their duration and dependencies

2.4. Material resources and their costs

v				
Paper	Material	P	15,00€	0,00€ Prorated
Computer	Material	С	200,00€	0,00€ Prorated
Coffee + Milk	Material	С	50,00€	0,00 € Prorated
Pen	Material	Р	1,00€	0,00 € Prorated

Figure 3 - Material resources

2.5. Human resources, payment rates and methods

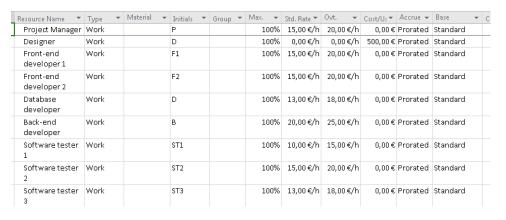


Figure 4 - Human resources

2.6. Fixed costs

	Task Name ▼	Cost ▼	Accrual 🔻	Total Cost →	Baseline 🕶	Variance ▼	Actual →	Remainii ▼
0	■ ProjectDžiugas-Edit	0,00€	Prorated	15.244,00 €	0,00€	.5.244,00 €	0,00€	5.244,00 €
1		0,00€	Prorated	600,00€	0,00€	600,00€	0,00€	600,00€
5	▶ 2 Design phase	0,00€	Prorated	1.500,00€	0,00€	1.500,00€	0,00€	1.500,00€
9	▷ 3 Development phase	0,00€	Prorated	8.768,00€	0,00€	8.768,00 €	0,00€	8.768,00 €
15	▶ 4 Testing phase	0,00€	Prorated	4.376,00€	0,00€	4.376,00€	0,00€	4.376,00€

Figure 5- Fixed costs

2.7. Resources assigned to project tasks

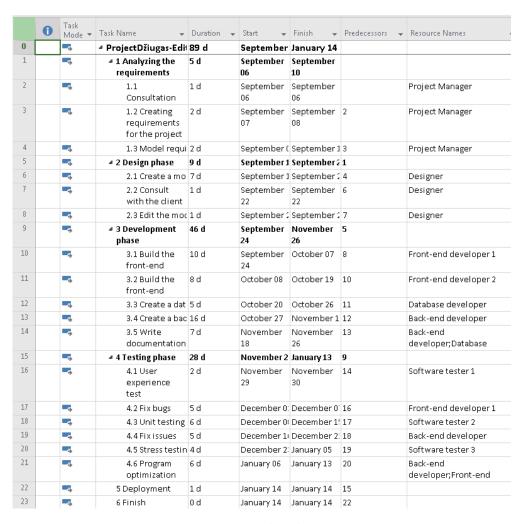


Figure 6 - project tasks with resources

2.8. Project schedule

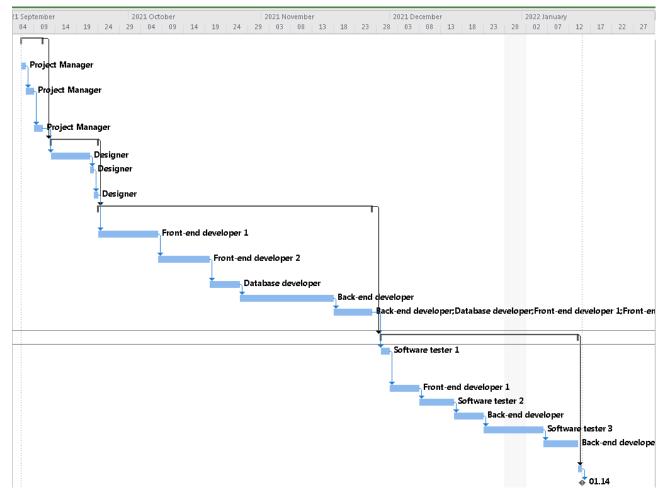


Figure 7- Project schedule

2.9. Project budget

Project budget: 15,244€

3. PROJECT FUNDING SOURCES.

3.1. Determine project funding sources.

- 1. Loan generally have higher rates of interest and are less flexible as payments need to be made for a pre-agreed amount and at a pre-agreed time. Loans can be repaid in stages or at the end of the loan period.
- 2. Business Angels- These are private investors who invest directly in a company in exchange for an equity stake and perhaps a place on the board.
- 3. Retained profits- Not all profits are distributed to shareholders: the company retains a proportion as reserves.

3.2. Determine funding scope.

- 1. Materials materials such paper and pen will be used during the project's timeline.
- 2. Human resources- Project managers, developers, testers will be paid based on the number of hours they spent working on the project.
- 3. Contractual workers Designers who will be given a fixed price of the work they have done.
- 4. Licenses licenses are needed for hosting database and website.

4. PROJECT RISKS

4.1. Identify and analyse the project risks.

Table 1 - table of risk factors

No	Task name	Risk name	Probability (P, 1-10)	Impact (I, 1-10)	Score (P*I)
1.	Cost risks	The project can get too expensive	6	8	48
2.	Project purpose and need is not well-defined	This could lead to misunderstandings and that would impact total project duration.	4	4	16
3.	Project schedule is not clearly defined or understood	This could impact project duration	6	6	36
4.	No control over staff	This could lead to decrease in project quality and its duration	4	10	40
5.	Unplanned work that has to be done.	This would increase the duration of the project	5	10	50
6.	Lack of communication, causing lack of clarity and confusion	Lack of communication could reduce the quality of the project and its duration	6	10	60
7.	Project conflicts not resolved in a timely manner.	Bugs that are not resolved on time could push back other deadlines	7	10	70

		that need to be met.			
8.	Theft of materials, intellectual property or equipment.	Theft of the property could cause company a lot of problems. This would not just push back the deadline itself, but would also need to cover new equipment expenses.	2	10	20

4.2. Determine risk reduction measures.

- **1.** To reduce the cost of material, we will go dumpster diving. To reduce the cost of the project, we should cheaper software.
- 2. We should do meetings and talk over every single little bit of things.
- **3.** Then use proper software, define the project schedule properly that everyone understands.
- **4.** Pay them higher salaries. Or fire them if they keep misbehaving.
- 5. Should have some time allocated between deadlines to finish those unexpected tasks.
- 6. Have some more time allocated for these kinds of conflicts.
- **7.** Always be prepared for these kinds of thefts and have proper insurance.

5. QUALITY MANAGEMENT

5.1. Determine project quality management.

- 1. Consultation with the client there will be consultation with the client to ensure that the client is satisfied with the requirement, design and result.
- 2. Meetings in the meeting project manager will have a chance to inspect the work.
- 3. Testing the project will be tested to ensure that website is going to work very smoothly.

6. PROJECT COMMUNICATION MANAGEMENT

Table 2- Communication management plan

Communication	Frequency	Goal	Audience
Project status report.	Weekly	Review project status and discuss potential status and delays.	Project team and client.
Team standup	Daily	Discuss what each team did yesterday and what they'll do today.	Project team

Prototype review	At milestone	Show prototype to the client and discuss changes that need to be made.	Project manager, designer and client.
Task progress update	Daily	Share daily progress made on tasks	Project team

7.PROJECT SWOT ANALYSIS

Strengths:

- 1. Low cost of structure
- 2. Optimized website
- 3. More focused on customer's satisfaction
- 4. Strong brand image.
- 5. Online presence.

Weaknesses:

- 1.E-commerce website could be easily replicated.
- 2.Free shipping increasing cost.
- 3. Poor rankings for commercial keywords.
 - 4. Preference of customers visiting shop personally.

Opportunities:

- 1. Pandemic.
- 2. Increase of online shoppers.
- 3. Exponential growth
- 4. Million products to choose from.

Threats:

- 1. Rising competition.
- 2. Cyber security threat.
- 3. Low entry barriers of the industry.
- 4. Government legislation.

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