Project Management

Assignment IV – Project Execution

Development of web application for tracking and analyzing web traffic

Student: Ayaganov Aitbek
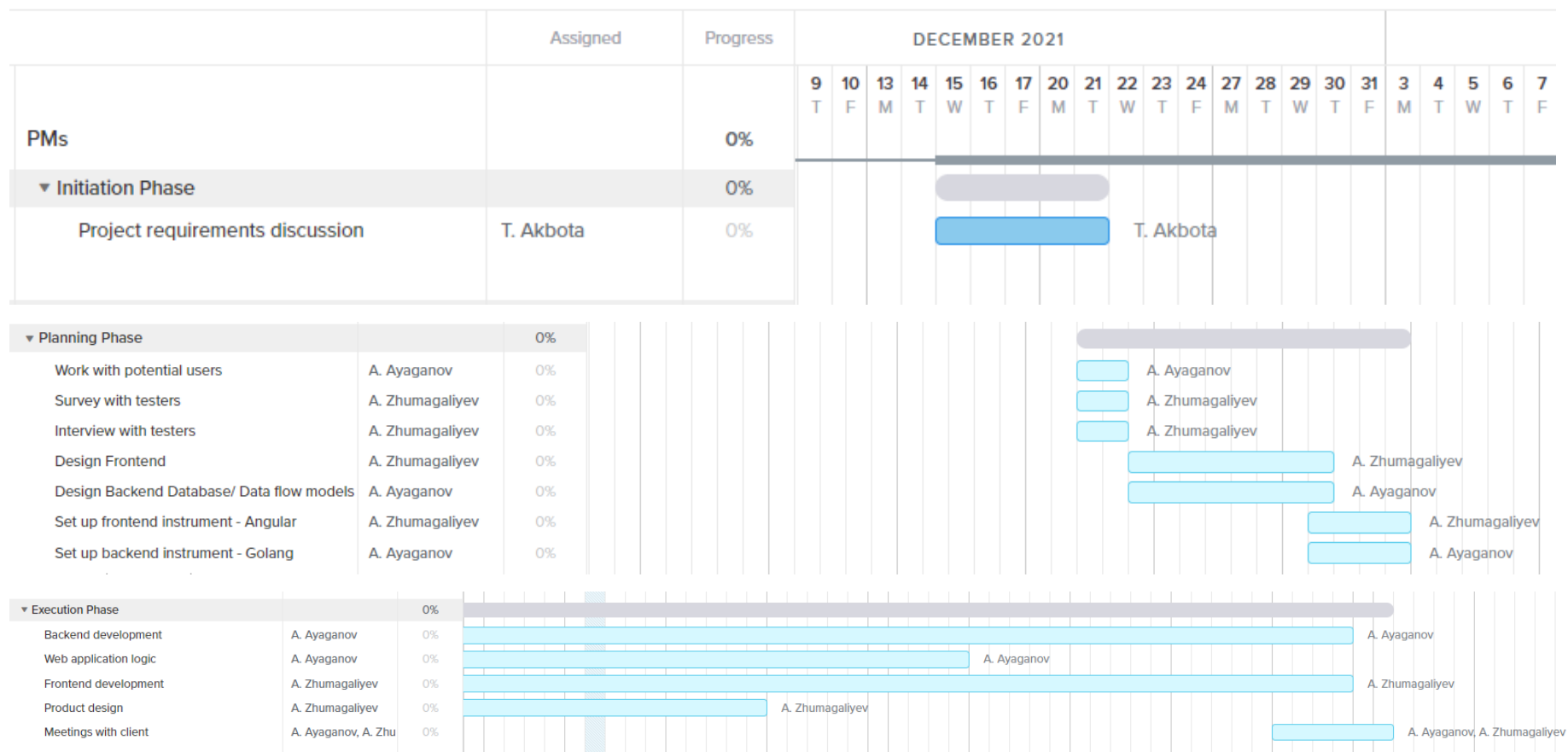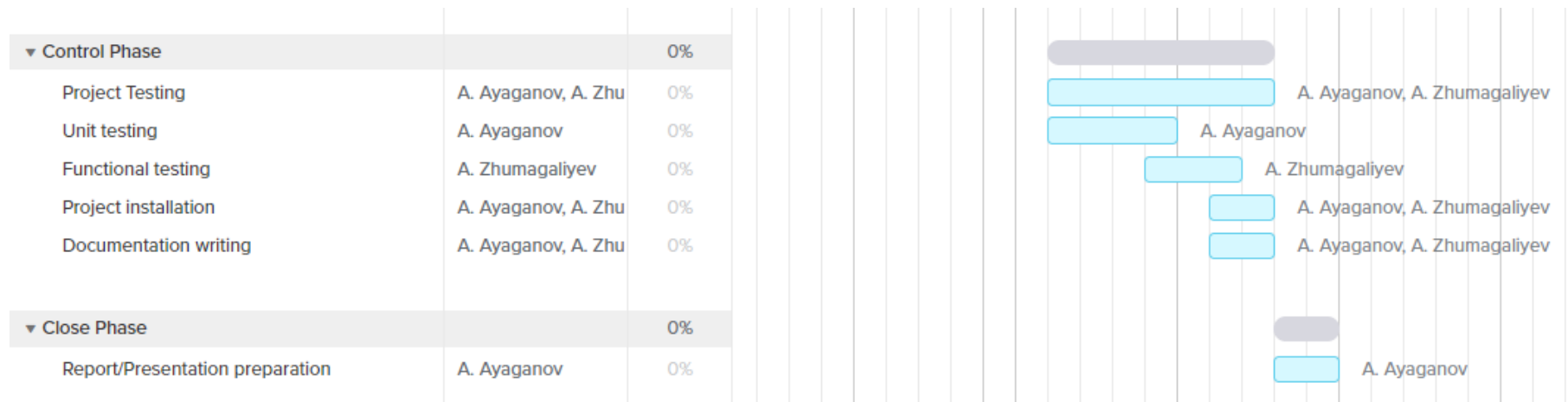
Group: SE1902

Nur-Sultan, 2022

Task management

Task No.	Task Description	Task Owner	Dependency	Resources Needed	Task Status	Cost	Start Date	Estimated Completion	Finish Date
1	Initiation Phase								
1.1	Project requirements discussion	T. Akbota	Prior tasks	-	Complete	N/A	2021.12.15	1 day	2021.12.15
2	Planning Phase								
2.1	Work with potential users	A. Zhumagaliyev, A. Ayaganov	Project schedule	Online resources, predefined documentation	Complete	N/A	2022.01.05	2 weeks	2022.01.21
2.1.1	Survey with testers	A. Zhumagaliyev	Project schedule	Online resources	Complete	N/A	2022.01.05	2 weeks	2022.01.19
2.1.2	Interview with testers	A. Zhumagaliyev	Project schedule	Predefined documentation	Complete	N/A	2022.01.07	2 weeks	2022.01.21
2.1.3	Design Frontend	A. Zhumagaliyev	Project schedule	Development tools	Complete	N/A	2022.01.06	1 week	2022.01.06
2.1.4	Design Backend Database/ Data flow models	A. Ayaganov	Project schedule	Development tools	Complete	N/A	2022.01.06	1 week	2022.01.06
2.2.5	Set up frontend instrument - Angular	A. Zhumagaliyev	Project schedule	Personal Computer	Complete	N/A	2022.01.06	1 day	2022.01.06

2.2.6	Set up backend instrument - Golang	A. Ayaganov	Project schedule	Personal Computer, Server	Complete	N/A	2022.01.06	1 day	2022.01.06
3	Execution Phase								
3.1	Backend development	A. Ayaganov	Prior tasks	PC, Server, Development tool	In Progress	N/A	2022.01.25	2 months	2022.04.01
3.1.1	Web application logic	A. Ayaganov	Development tool	PC, Development tool	In Progress	N/A	2022.01.25	1 months	2022.02.25
3.2	Frontend development	A. Zhumagaliyev	Prior tasks	PC, Photoshop, Development tool	In Progress	N/A	2022.01.25	2 months	2022.04.01
3.2.1	Product design	A. Zhumagaliyev, A. Ayaganov	Photoshop skill	PC, Photoshop, Development tool	In Progress	N/A	2022.01.25	3 weeks	2022.02.18
3.3	Meetings with client	A. Zhumagaliyev, A. Ayaganov	Report	Report	In Progress	N/A	2022.01.21	2 months	2022.04.01
4	Control Phase								
4.1	Project Testing	A. Zhumagaliyev, A. Ayaganov	Development result	PC, Product	Assigned	N/A	2022.04.02	1 week	2022.04.09
4.1.1	Unit testing	A. Zhumagaliyev	Code structure	PC, Product	Assigned	N/A	2022.04.02	2-3 days	2022.04.05
4.1.2	Functional testing	A. Ayaganov	Functional requirements	PC, Product	Assigned	N/A	2022.04.05	2-3 days	2022.04.09
4.2	Project installation	A. Ayaganov	Prior tasks	Server	Assigned	N/A	2022.04.10	1 day	2022.04.10
4.3	Documentation writing	A. Ayaganov	Prior tasks	Product	Assigned	N/A	2022.04.10	2-3 day	2022.04.13
5	Close Phase								

5.1	Report/Presentation preparation	A. Ayaganov	Development result	Product	Assigned	N/A	2022.04.14	1 day	2022.04.14

Schedule management

	Assigned	Progress	DECEMBER 2021																			
			9 T	10 F	13 M	14 T	15 W	16 T	17 F	20 M	21 T	22 W	23 T	24 F	27 M	28 T	29 W	30 T	31 F	3 M	4 T	5 W	6 T	7 F
PMs		0%																					
▼ Initiation Phase		0%																					
Project requirements discussion	T. Akbota	0%						T. Akbota															

Planning Phase		0%
Work with potential users	A. Ayaganov	0%	A. Ayaganov
Survey with testers	A. Zhumagaliyev	0%	A. Zhumagaliyev
Interview with testers	A. Zhumagaliyev	0%	A. Zhumagaliyev
Design Frontend	A. Zhumagaliyev	0%	A. Zhumagaliyev
Design Backend Database/ Data flow models	A. Ayaganov	0%	A. Ayaganov
Set up frontend instrument - Angular	A. Zhumagaliyev	0%	A. Zhumagaliyev
Set up backend instrument - Golang	A. Ayaganov	0%	A. Ayaganov

Execution Phase		0%
Backend development	A. Ayaganov	0%	A. Ayaganov
Web application logic	A. Ayaganov	0%	A. Ayaganov
Frontend development	A. Zhumagaliyev	0%	A. Zhumagaliyev
Product design	A. Zhumagaliyev	0%	A. Zhumagaliyev
Meetings with client	A. Ayaganov, A. Zhu	0%	A. Ayaganov, A. Zhumagaliyev

▼ Control Phase		0%	
Project Testing	A. Ayaganov, A. Zhu	0%	A. Ayaganov, A. Zhumagaliyev
Unit testing	A. Ayaganov	0%	A. Ayaganov
Functional testing	A. Zhumagaliyev	0%	A. Zhumagaliyev
Project installation	A. Ayaganov, A. Zhu	0%	A. Ayaganov, A. Zhumagaliyev
Documentation writing	A. Ayaganov, A. Zhu	0%	A. Ayaganov, A. Zhumagaliyev
▼ Close Phase		0%	
Report/Presentation preparation	A. Ayaganov	0%	A. Ayaganov

Cost Management

Currently we don't have any sponsors, our project is funded by our own resources, because of this it is very important to keep everything clean and simple in terms of cost management. We are using servers and hosting that are very cheap and perfectly fitting our development requirements. We combine them with free development tools, so cost management does not have negative impact on development process.

Quality Management

In order for the project to be successful, it is necessary to fulfill the following criteria:
- System should be created according to initial plan.
- The client design should be very clean, simple and user friendly.
- System should be accessible through the API, not only web application.
- System should be tested, so that any vulnerabilities will be improved before the release.

Change Management

Currently, we do not want to bring new changes into the project, because this will lead to increasing difficulty. We want to finish the MVP stage of the project, and then prepare product for further changes.

Procurement Management

Since no costs are planned for the purchase of additional or new resources, there will be no procurement management.

Resource Management

Type	Quantity	Notes
Backend Developer	1	A developer who will be responsible for developing the backend application for that will serve both frontend and API
Frontend Developer	1	A developer who will be responsible for developing frontend application
Database	1	Remote storage
Domain	1	These are required for product release
Server	1	The hardware that will be running both of the applications
Personal computer	2	Developers' tools

Collaboration

The development process is already divided into parts, so that required works does not need to be conducted with strong communication. Despite that, to help each other such communication tools like Discord will be used. We will be using GitHub version control, so that every team member will be able to observe other work, and communicate in case it is needed.

Monitor & Control Phase

Monitor the Process

At that state, the project is actively monitored and checked for the completion of the assigned tasks on time. There are tasks that have already been completed. However, there are tasks that have yet to be completed in accordance with the work plan.

Task no	Task Description	Priority	Start Date	Actual End Date	Status
1.1	Project requirements discussion	High	2021.12.15	2021.12.15	Complete
1.2	Set up hardware	Medium	2021.12.21	2021.12.21	Complete

Task no	Task Description	Priority	Start Date	Planned End Date	Status
3.1	Backend development	Medium	2022.01.25	2022.04.01	In Progress
3.1.1	Web application logic	Medium	2022.01.25	2022.02.25	In Progress

Reporting

All reports were submitted in accordance with the use of specially prepared templates. Reports were submitted on time and correctly formatted.

Transfer Deliverables

Currently, the project is under development, so there are no exact deliverables, except project documents and reports that were written by project manager and submitted. After the development end, all of the declared deliverables, like web application and API, will be released, and all related documents will be published.

Confirm Completion

#	Full name	Date	Sign of Completion
1	A. Akbota		
2	A. Ayaganov		
3	A. Zhumagaliyev		

Review Documentation

At this point, it is necessary to check all documents for timeliness and signing. All signatures have been received in the required places.

Release Resources

Because this project is being funded by ourselves, we do not need to release any of the used resources. Although, we are thinking about changing the servers where the application will be running, due to the high load of requests.

Do a Post-Mortem

To conclude, this project brought as not only new experience, but also thought as about the possible mistakes that might take place in any project of this kind. We need to take into consideration the problems that were occurred in the processes in this project, so that we will be sure they would not be repeated again.