

SE324 – Software Project Management & Economics

- HW 2-

Group 11:

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1.Project Topics

1) Project Name: VirtualNet

2) Group Number: 11

3) Responsibility list of group members:

Responsibility	Uğur Cihan İçöz	Sümeyye Ayşe Özdemir	Şevval Gül Şahin
Project Management	Х	X	
Installation			X
Software Design	Х	X	X
Testing			Х
Support Service	Х	Х	

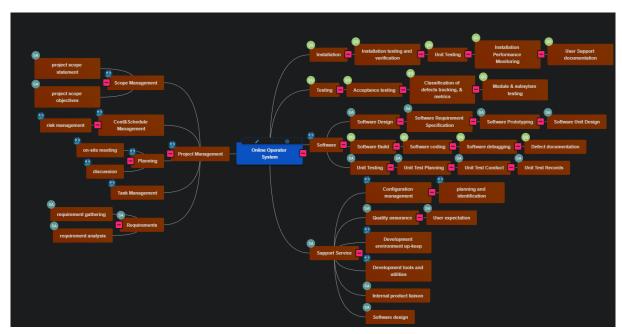
2.Risks of VirtualNet

	Risks	Analyssis of risks	Risk Response
Technical	Integration issues	Integration complexities	Conduct thorough compatibility and
Risks with existing		can arise due to	integration testing during the
	systems or third-	differences in data	development phase. Collaborate closely
	party services.	formats, APIs, or system	with third-party service providers and
		compatibility	conduct regular communication to
			address any integration challenges.
	Performance	The system may face	Perform load testing and capacity
	bottlenecks and	challenges in handling a	planning to identify performance
	scalability issues	large number of	bottlenecks and optimize system
	under high user load.	concurrent users and	resources. Consider implementing
		maintaining optimal	caching mechanisms, horizontal
		performance.	scaling, and resource monitoring to
			ensure scalability.
Security Risks	Data breaches and	The system will handle	Implement robust security measures
	unauthorized access	sensitive customer data,	such as encryption, secure
	to customer	making it a potential	authentication protocols, and regular
	information.	target for malicious	security audits. Adhere to industry best
		attacks or data breaches.	practices and compliance standards to
			protect customer data.
	Vulnerabilities in the	Malicious actors may	Conduct regular security testing and
	system leading to	attempt to exploit	vulnerability assessments to identify
	exploitation by	weaknesses in the system,	and patch any security vulnerabilities.
	hackers.	leading to unauthorized	Stay up to date with security patches
		access or service	and updates for the system's underlying
		disruptions.	infrastructure and software
			components.
Project	Inadequate resource	Insufficient resources or	Conduct a comprehensive resource and
Management	allocation and skill	lack of expertise in certain	skill assessment early in the project to
Risks	gaps	areas can lead to delays or	identify any gaps. Allocate resources

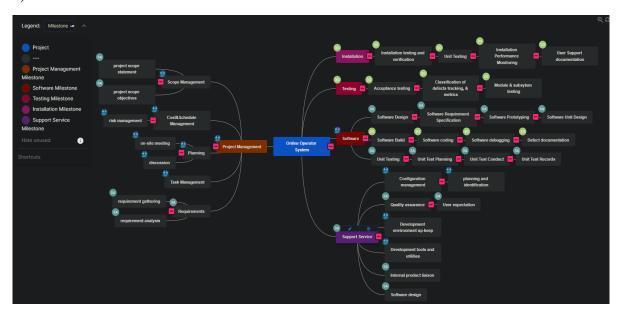
	Scope creep and changing requirements.	quality issues in project deliverables. The project may face scope creep or evolving requirements that can impact project timelines	effectively and provide necessary training or acquire external expertise if needed. Establish a robust change management process to evaluate and prioritize changes. Clearly define project scope and engage stakeholders in regular
		and budgets.	communication to manage expectations.
Environmental Risks	Power outage	Such as a hurricane or a major thunderstorm. This can cause disruptions in the system's operations and lead to downtime, resulting in financial losses and reputational damage. Additionally, environmental factors such as extreme temperatures or humidity can affect the performance of servers and other equipment, potentially leading to hardware failures and data loss.	Backup Power: Implementing backup power systems, such as generators or battery backups, can help ensure that critical systems and data remain online during power outages. Redundant Systems: Implementing redundant systems and infrastructure can help ensure that if one system or component fails, there is a backup in place to take over and avoid downtime. Cloud Computing: Migrating critical systems and data to the cloud can provide greater resilience against power outages, as cloud providers often have multiple data centers in different regions that can maintain uptime. Regular Maintenance: Regularly maintaining and upgrading the system's infrastructure and equipment can help prevent power outages caused by hardware failures or other technical issues. Disaster Recovery Plan: Implementing a comprehensive disaster recovery plan can help minimize the impact of power outages by outlining steps to restore critical systems and data as quickly as possible.

3.WBS

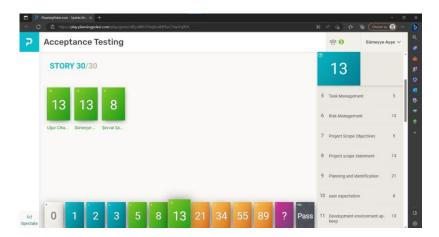
1) WBS with Deliverables:



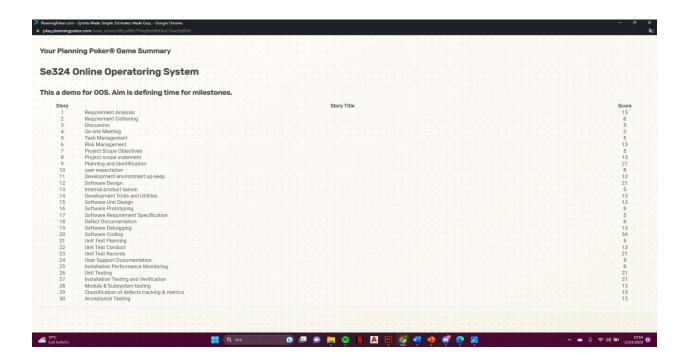
2) WBS with Milestone:



4. Planning Poker



As requested in our homework, we have determined the times of each work package in Planning Poker. To us, it was feasible and fun. Because each individual in the group chooses how long each work package time will take according to himself, and the time is determined according to the resulting average. Our result was also formed in the form of the screenshot you see below.



5.Gantt Chart

