Software Project Management

Lab 4

Kishan Ratnasingam: 100754728
Hermon Estifanos: 100803620
Hanum Magaji: 100829979

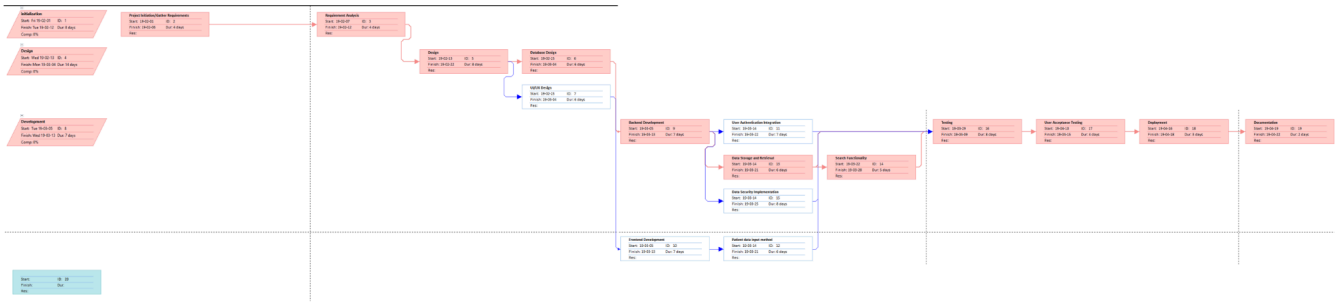
Introduction

In this lab, we looked at a project diagram we made in a previous lab3.
We talked about the risky parts of the project and how we can deal with those risks.
Then, we used Microsoft Project to plan out our project step by step. We turned our project activities into tasks, showed which tasks depend on others, and grouped similar tasks together. This lab helped us understand how to manage risks and plan projects effectively.

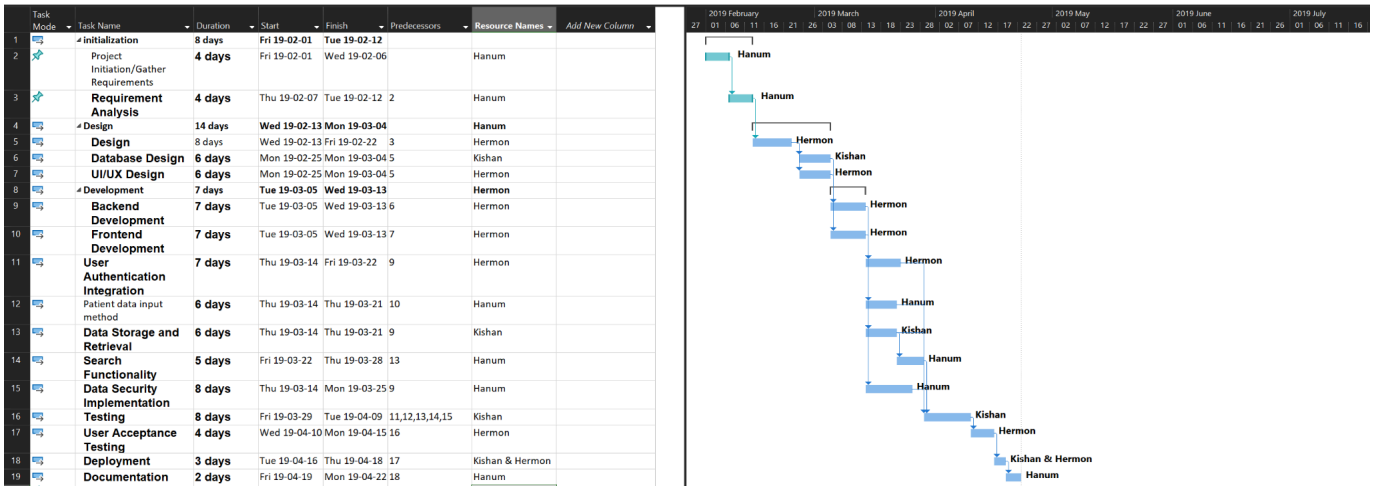
Activity	**Risk**	**Countermeasures**
Data Security Implementation	1. Breach of Data 2. Insecure Data Transmission	1. Strong Access control ensures only authorized people are able to access and change sensitive data. 2. Implementing strong encryption algorithms to protect data during transmission
Testing	1.Tests are not well defined 2.Tests keep failing	1. Have meetings to verify that the test cases accurately align with the specified requirements. 2. Make sure the test case and logs are thoroughly reviewed and have a plan to return to development stage if needed
User Authentication Integrati	1.Credential Theft 2.Misconfiguration	1. Educate users about phishing and other social engineering attacks and implement multi-factor authentication 2. Regularly audit system configurations

		for compliance and security.
Deployment	1. Introduction of security vulnerabilities. 2. Compatibility Issues	1. Dynamic application security testing and code reviews. 2. Test software in various platforms and environments.

For details please refer to the github link



This diagram shows the tasks and their dependencies.



	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	Add New Column
1		**initialization**	**8 days**	**Fri 19-02-01**	**Tue 19-02-12**			
2		Project Initiation/Gather Requirements	**4 days**	Fri 19-02-01	Wed 19-02-06		Hanum	
3		**Requirement Analysis**	**4 days**	Thu 19-02-07	Tue 19-02-12	2	Hanum	
4		**Design**	**14 days**	**Wed 19-02-13**	**Mon 19-03-04**		**Hanum**	
5		**Design**	8 days	Wed 19-02-13	Fri 19-02-22	3	Hermon	
6		**Database Design**	**6 days**	Mon 19-02-25	Mon 19-03-04	5	Kishan	
7		**UI/UX Design**	**6 days**	Mon 19-02-25	Mon 19-03-04	5	Hermon	
8		**Development**	**7 days**	**Tue 19-03-05**	**Wed 19-03-13**		**Hermon**	
9		**Backend Development**	**7 days**	Tue 19-03-05	Wed 19-03-13	6	Hermon	
10		**Frontend Development**	**7 days**	Tue 19-03-05	Wed 19-03-13	7	Hermon	
11		**User Authentication Integration**	**7 days**	Thu 19-03-14	Fri 19-03-22	9	Hermon	
12		Patient data input method	**6 days**	Thu 19-03-14	Thu 19-03-21	10	Hanum	
13		**Data Storage and Retrieval**	**6 days**	Thu 19-03-14	Thu 19-03-21	9	Kishan	
14		**Search Functionality**	**5 days**	Fri 19-03-22	Thu 19-03-28	13	Hanum	
15		**Data Security Implementation**	**8 days**	Thu 19-03-14	Mon 19-03-25	9	Hanum	
16		**Testing**	**8 days**	Fri 19-03-29	Tue 19-04-09	11,12,13,14,15	Kishan	
17		**User Acceptance Testing**	**4 days**	Wed 19-04-10	Mon 19-04-15	16	Hermon	
18		**Deployment**	**3 days**	Tue 19-04-16	Thu 19-04-18	17	Kishan & Hermon	
19		**Documentation**	**2 days**	Fri 19-04-19	Mon 19-04-22	18	Hanum	

This diagram shows the whole project with its tasks.

Conclusion

Through this lab we were able to learn how to effectively use Microsoft Project. More importantly we were able to learn how we can manage future projects. One of the big components of this software is its ability to organize/create charts making it easier for people who lack technical knowledge to understand since it gives a clear visualization of the whole project. Although the Microsoft project is a powerful tool it was hard for us to use due to some technical difficulties with the software. One issue that arose with one of our group members was he was not able to save the file after finishing the work. Another problem we encountered was we were not able to type information into the cell. We overcame this by saving the file first then copying and pasting the data in each cell. In the future if we were to do this project again one thing we would've changed is research more about the software before starting the project.