Lab 4

Smart Health Prediction System

Department of Electrical, Computer and Software Engineering
SOFE 3490U: Software Project Management (Winter 2023)
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I. Risks & Countermeasure

Below is a table which shows the risks of the project and their associated countermeasures.

#	Risk	Countermeasure
1	Customer does not like the project.	Provide open beta tests to receive feedback from the customer.
2	Product has critical performance bugs.	Spend more time and money on code review and bugtesting.
3	Hired staff are unproductive or unable to coordinate well.	Update development plan to help staff with coordination, reprimand staff that underperform.
4	Selected hardware and software are incompatible.	Adjust hardware selection, software selection, and product specifications to match the range of available hardware+software combinations.

II. Resources

Below is a table that contains each resource (teams/team-member) and their corresponding activity from the activity diagram.

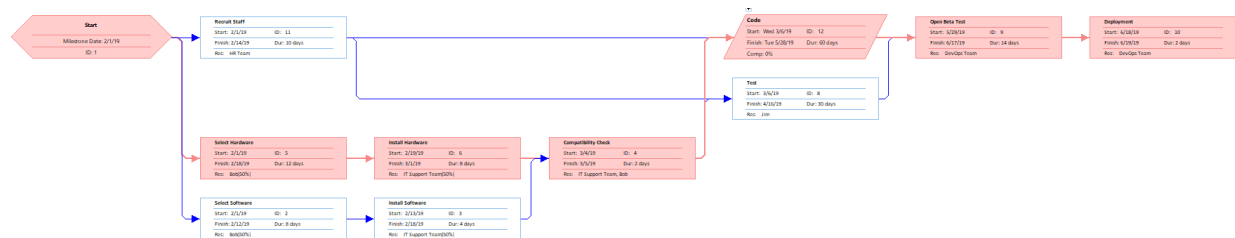| Resource	Assigned Activity
HR Team	● Recruiting staff.
Jim the QA Analyst	● Testing.
Programming team	● Coding.
DevOps Team	● Deploying.
Bob the System Analyst	● Select hardware.

	● Select Software.
IT Support	● Install hardware.
	● Install Software.

III. Microsoft Project

The following are constraints/changes added to the project:

- Project Calendar uses the Standard model in Microsoft Project
- Family day (Feb. 22, 2019) has been added as a non-working exception
- The "Code" task is now a summary, enveloping "Create Frontend" and "Create Backend"
- Risk mitigation task "Open Beta Test" added to address risk/countermeasure #1.
- Extended "Code" and "Test" task to address risk/countermeasure #2.
- Risk mitigation task "Compatibility Check" added to address risk/countermeasure #4.

Final Network Diagram:

Final Resource Sheet:

	Resource Name	Type	Material	Initials	Group	Max.	Std. Rate	Ovt. Rate	Cost/Use	Accrue	Base
1	HR Team	Work		H		100%	$0.00/hr	$0.00/hr	$0.00	Prorated	Standard
2	Jim	Work		J	QA Analyst	100%	$0.00/hr	$0.00/hr	$0.00	Prorated	Standard
3	Programming Team	Work		P		100%	$0.00/hr	$0.00/hr	$0.00	Prorated	Standard
4	DevOps Team	Work		D		100%	$0.00/hr	$0.00/hr	$0.00	Prorated	Standard
5	Bob	Work		B	System Analyst	100%	$0.00/hr	$0.00/hr	$0.00	Prorated	Standard
6	IT Support Team	Work		I		100%	$0.00/hr	$0.00/hr	$0.00	Prorated	Standard

See attached file "SPM Lab 4.mpp" for full file.