

Project Estimation:

ID	Tasks	Estimated work hours	Estimated working days (Working day = 5 Hrs)	Cost (Working hour =10\$)
Hardware				
1	Maintain Devices	50	10	500
2	Maintain Servers	20	4	200
3	Maintain Routers	20	4	200
4	Update Routing S.W	5	1	50
5	Select suitable UPS	5	1	50
Software				
6	Install & update A.V	10	2	100
7	Install / update notepad++	5	1	50
8	Install / update programming IDE	20	4	200
9	Install / update Testing platform	30	6	300
10	install & setup Configuration management tool	30	6	300
Process Design				
11	Design Partner/shop process	50	10	500
12	Design user process	50	10	500
13	Design Maintenance process	50	10	500
App Development				
14	Develop & test app functions and logic	300	60	3000
15	Develop & test Partner/shop interface	100	20	1000
16	Develop & test User interface	100	20	1000
17	Develop & test Maintenance Interface	100	20	1000
Training				
18	Prepare training material & Software	30	6	300
19	Provide Tools Training	120	24	1200
20	Provide Development Training	300	60	3000
21	Provide Process Training for Shops	10	2	100
22	Provide Maintenance Training	150	30	1500
Total		1555	311	15550

Tool Costs:

ID	Tool	Supplier	Amount (Units)	Unit price	Cost (\$)
Hardware					
1	PCs/Laptops	ASUS	20	600	12000
2	Servers	DELL	3	5000	15000
3	Routers	TP-LINK	20	300	6000
4	UPS units	ABB	50	1000	50000
5	Testing Hardware	Some distributer	20	300	6000
Software					
6	Contract with Antivirus supplier	Avast	-	-	5000
Training					
7	Training Software	CISCO	-	-	10000
Other					
8	Internet Connection	We	-	-	3000
	<b>Total</b>				<b>107000</b>

Total Cost:

Cost Type	Cost (\$)
Task Costs	15550
Tool Costs	107000
<b>Total</b>	<b>122550</b>

Assumptions:

Item	Assumptions
<b>PCs/Laptops</b>	Item should have at least the following specifications: -Intel Core i5 11600 Processor -16GB of DDR4 Ram -500GB of storage - 720p webcam
<b>Servers</b>	Item should have at least the following specifications: -100TB of storage per unit - 1Gbps connection - Data loss protection - Data backup reserve
<b>Routers</b>	Item should have at least the following specifications: - 1Gbps Connection - 50m Wireless coverage - Connection Encryption support
<b>UPS units</b>	Item should have at least the following specifications: - Battery capacity that insures 2 hours of working - automatic activation
<b>Testing Hardware</b>	Item should have at least the following specifications: - Arm cortex m3 mcu - 2GB Ram - 250mb Rom