EAST WEST UNIVERSITY

Department of Computer Science and Engineering
East West University
Dhaka, Bangladesh

Summer 2024
Course Code: CSE495
Section: 03
Submitted to:
Deepak Chandra Ray

Topic: Cyber Security Consultancy Startup

Group Members

NAME	ID
Iffat Tasnim	2020-2-60-004
Nurzahan Akter Munni	2020-2-60-176
Nadia Sultana	2020-2-60-024

Project Charter:

PROJECT NAME	PROJECT MANAGER	PROJECT SPONSOR
Cyber Security Consultancy Startup	Iffat Tasnim	DR. Yunus
EMAIL	**PHONE**	**ORGANIZATIONAL UNIT(S)**
cscs@gmail.com	01xxx-xx	Cybersecurity Consultancy, Software Solution
OBJECTIVES	**EXPECTED START DATE**	**EXPECTED COMPLETION DATE**
1) Establish a fully operational Cyber Security Consultancy business. 2) Develop a comprehensive suite of cybersecurity services. 3) Build a strong client base within the first year. 4) Ensure compliance with industry standards and regulations. 5) Establish a solid reputation for delivering high-quality cybersecurity solutions.	9/11/2024	12/31/2025
INITIAL BUDGET	**ESTIMATED COSTS**	**FINAL BUDGET**
1) Personal-savings: $50,000 2) Bank loan: $100,000 3) Angel investors: $50,000 **TOTAL BUDGET: $200,000**	1) Legal and accounting fees: $40,000 2) Marketing and advertising: $6,000 3) Website development: $10,000 4) Equipment and software: $60,000 5) Office rent and utilities: $23,000 6) Salaries and benefits: $23,000 7) Other expenses: $10,860	$40,000+ $6,000+ $10000 +$60000+ $23000 +$23000+ $10860 = **$172,860**
REVISED BUDGET: **$27,140**		

PROJECT OVERVIEW

PURPOSE OF PROJECT	The purpose of this project is to establish a Cyber Security Consultancy Startup aimed at providing cybersecurity services like vulnerability assessments, penetration testing, incident response, and security awareness training for small and medium-sized businesses (SMBs) in Bangladesh.
EXPECTED DELIVERABLES	Deliverable 1: Signed contracts with SMBs for cybersecurity services. Deliverable 2: Delivered cybersecurity solutions, including incident response plans and vulnerability assessments.

PROJECT SCOPE

SCOPE	The project scope involves identifying SMBs in Bangladesh, negotiating cybersecurity service agreements, analyzing their needs, planning cybersecurity solutions, and delivering services including vulnerability assessments, penetration testing, and employee training.

KEY MILESTONES

KEY MILESTONE	START	FINISH
Core Service Offering (Risk Assessment, penetration testing)	5/16/25 8:00 AM	5/20/25 5:00 PM
Team Training	7/10/25 8:00 AM	7/29/25 5:00 PM
Client Management Tools Setup	9/28/25 8:00 AM	10/22/25 5:00 PM
Partnership Development	11/7/25 8:00 AM	11/26/25 5:00 PM
Team Growth	12/7/25 8:00 AM	12/26/25 5:00 PM

RESOURCES

PROJECT TEAM	SUPPORT RESOURCES	SPECIAL NEEDS
Iffat Tasnim - Project Manager	Project Management, Cybersecurity Services	TBA
Nurzahan Akter Munni - Assistant Manager	-	-
Nadia Sultana - Senior Engineer	-	-

COSTS

COST TYPE	VENDOR / LABOR NAMES	RATE	Total
Work	Project Manager	$20.00/hour	$260.00/hour
	Security Consultants	$50.00/hour	
	Security Analysts	$50.00/hour	
	Security Awareness Trainers	$50.00/hour	
	Marketing and Sales Team	$90.00/hour	
Material	Firewall Appliances	$2000	$30400.00
	Routers	$100	
	Intrusion Detection/Prevention System (IDS/IPS) Appliances	$700	
	Laptops/Desktops	$1000	
	Mobile Devices	$400	
	Hardware Security Modules (HSMs)	$20000	
	Network Monitoring Devices	$500	
	Encryption Appliances	$5000	
	Secure USB Drives	$50	
	Secure VoIP Phones	$150	
	CCTV Cameras	$300	
	UPS	$200	

TOTAL COST:
$30660.00

STAKEHOLDERS

ROLE	STAKEHOLDER
Project manager	Iffat Tasnim
Development teams	Designers, developers, testers, and other team members involved in the process.
App owners	Various stakeholders own the apps targeted for cybersecurity services.
End users	SMBs benefiting from the enhanced cybersecurity measures.

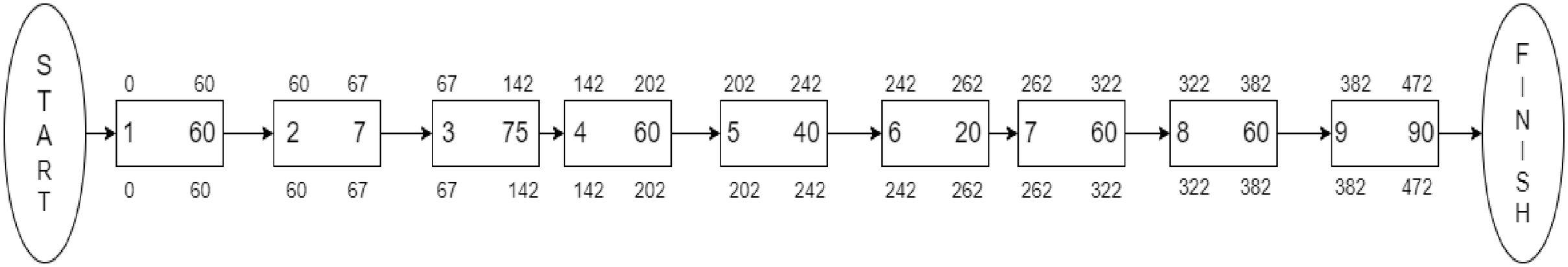
RISKS, CONSTRAINTS, AND ASSUMPTIONS

CATEGORY	DETAILS
RISKS	1. SMBs may prefer to develop cybersecurity solutions in-house or through other vendors. 2. Technical issues during implementation.
CONSTRAINTS	Programming limitations, performance bottlenecks, budget limitations, and tight deadlines for service deployment.
ASSUMPTIONS	1. SMBs will value enhanced cybersecurity services. 2. Sufficient market demand for cybersecurity solutions in Bangladesh.

Each major tasks with their predecessors and durations:

Task ID	Activity	Predecessors	Duration(days)	Start	Finish
1	Develop business plans and financial projections	-	60	9/11/24 8:00 AM	11/9/24 5:00 PM
2	Develop business model and strategy	1	7	11/10/24 8:00 AM	11/16/24 5:00 PM
3	Secure funding and resources	2	75	11/17/24 8:00 AM	1/30/25 5:00 PM
4	Build brand and marketing	3	60	1/31/25 8:00 AM	3/31/25 5:00 PM
5	Build a website and online services	4	40	4/1/25 8:00 AM	5/10/25 5:00 PM
6	Implementing services of pricing and offerings	5	20	5/11/25 8:00 AM	5/30/25 5:00 PM
7	Recruit members and team development	6	60	5/31/25 8:00 AM	7/29/25 5:00 PM
8	Implement a cyber security office	7	60	7/30/25 8:00 AM	9/27/25 5:00 PM
9	Implement operations and growth	8	90	9/28/25 8:00 AM	12/26/25 5:00 PM

Network Diagram: (Diagram is drawn with the help of draw.io)



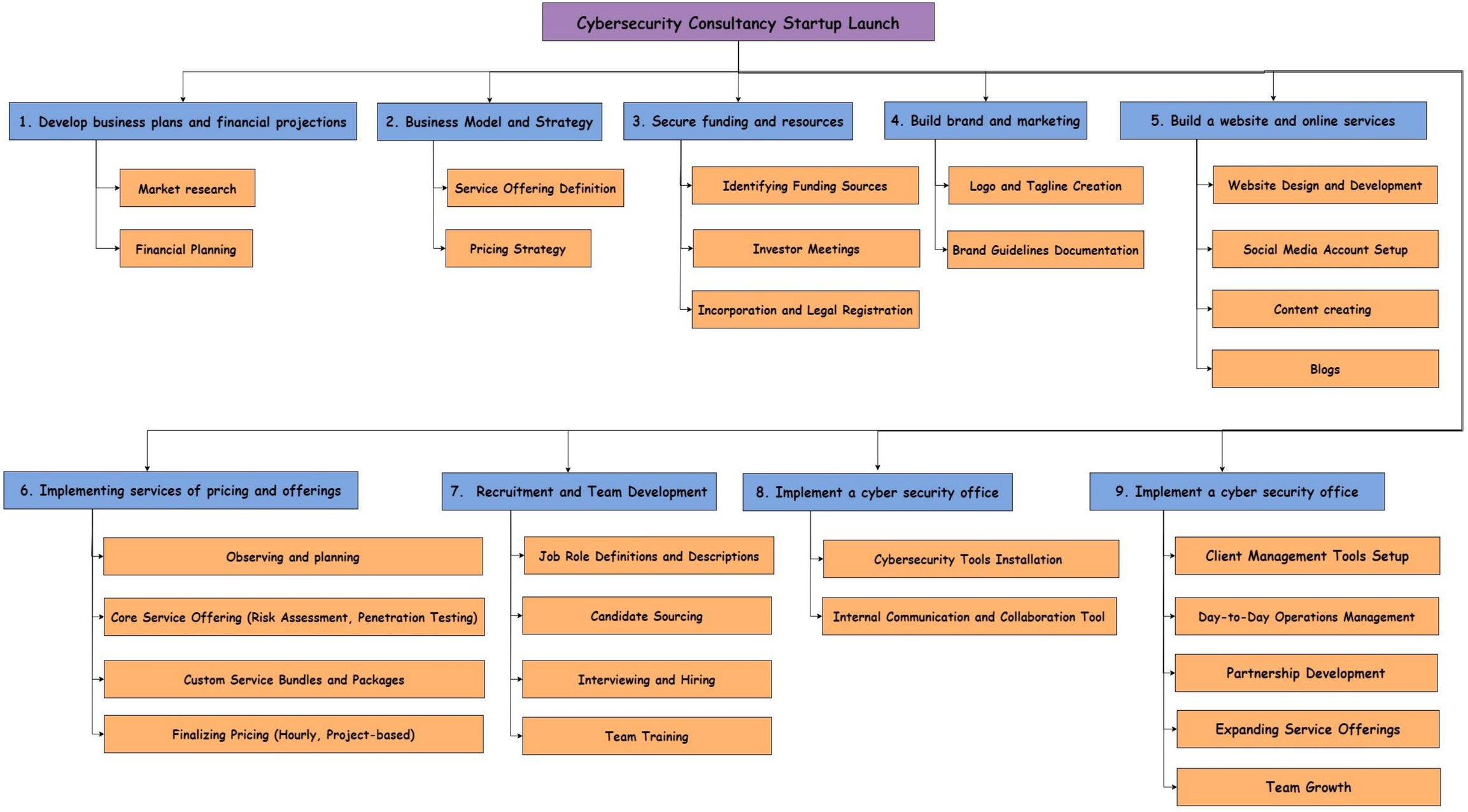
Critical path: 1→ 2→ 3→ 4→ 5→ 6→ 7→ 8→ 9

Critical time: 472 days.

The critical path our project management is the longest sequence of tasks that must be completed on time for the entire project to finish on schedule. It shows our minimum duration of our project timeline.

The Critical time refers to the total duration required to complete all tasks on the critical path in our project. It represents the shortest possible time in which a project can be finished, assuming no delays occur in the tasks that are part of the critical path.

Work Breakdown Structure: (Diagram is drawn with the help of draw.io)



After allocating and assigning all resources:

ACTIVITY	COST	Total
1. Develop business plans and financial projections		$9,600
Market Research	240-hour x $20 = $4,800	
Financial Planning	240-hour x $20 = $4,800	
2. Business Model and Strategy		$5,040
Service Offering Definition	24-hour x $90 = $2,160	
Pricing Strategy	32-hour x $90 = $2,880	
3. Secure funding and resources		$11,920
Identifying Funding Sources	172-hour x $20 = $3,440	
Investor Meetings	184-hour x $20 = $3,680	
Incorporation and Legal Registration	240-hour x $20 = $4,800	
4. Build brand and marketing		$9,600
Logo and Tagline Creation	240-hour x $20 = $4,800	
Brand Guidelines Documentation	240-hour x $20 = $4,800	
5. Build a website and online services		
Website Design and Development	160-hour x $20 = $3,200	$6,400
Social Media Account Setup	80-hour x $20 = $1,600	
Content creating	40-hour x $20 = $800	
Blogs	40-hour x $20 = $800	
6. Implementing services of pricing and offerings		
Observing and planning	40-hour x $50 = $2,000	$8,000
Core Service Offering (Risk Assessment, Penetration Testing)	40 -hour x $50 = $2,000	
Custom Service Bundles and Packages	40-hour x $50 = $2,000	

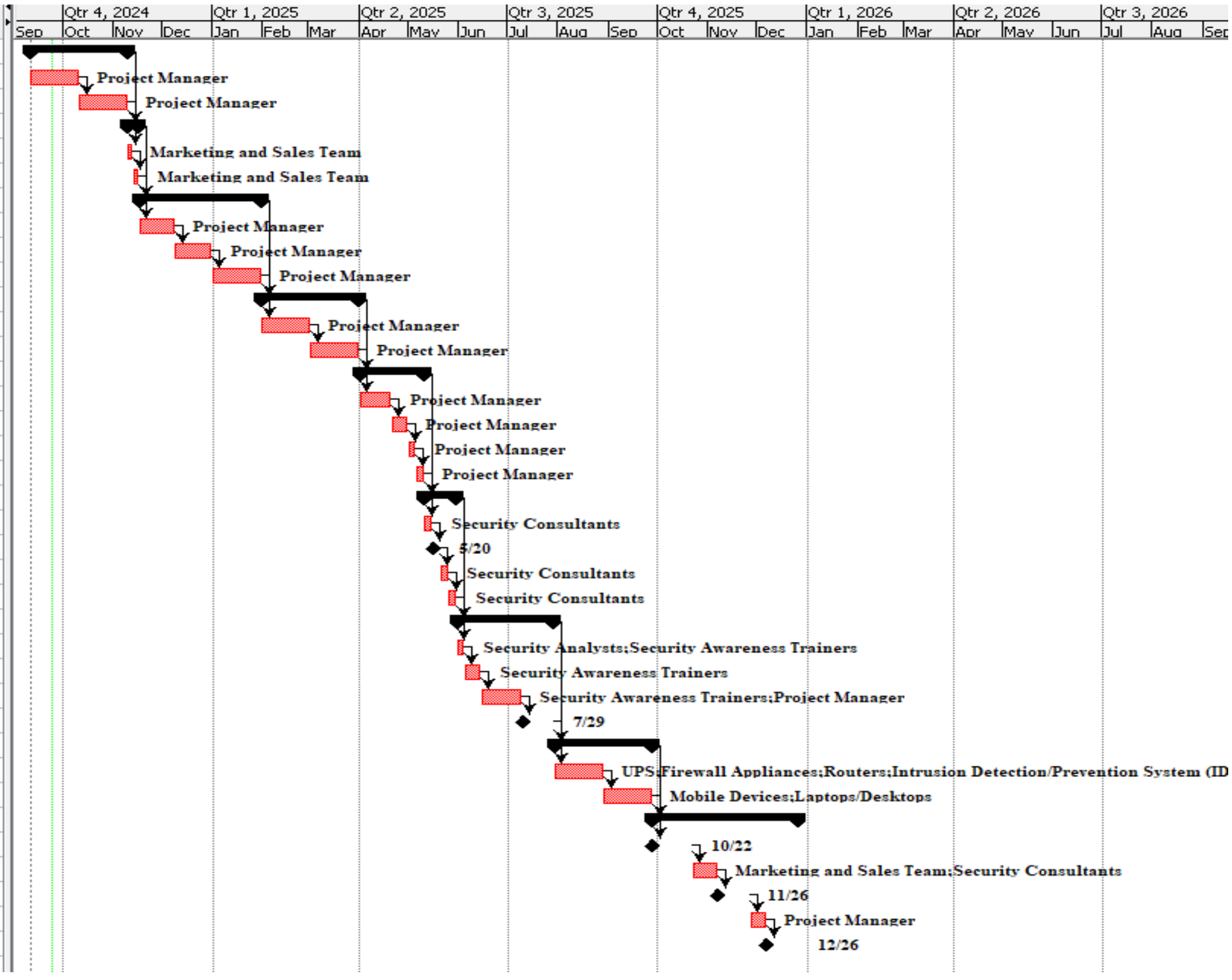
ACTIVITY	COST	Total
Finalizing Pricing (Hourly, Project-based)	40-hour x $50 = $2,000	
7. Recruitment and Team Development		$30,000
Job Role Definitions and Descriptions	40-hour x $50+ 40-hour x $50 = $4,000	
Candidate Sourcing	80-hour x $50 = $4,000	
Interviewing and Hiring	200-hour x $20+200-hour x $50 = $14,000	
Team Training	160-hour x $50 = $8,000	
8. Implement a cyber security office		$31,800
Cybersecurity Tools Installation	$2,000+ $100+ $700+ $1,000+ $400+ $20,000+ $500+ $5,000+ $50+ $150+ $300+ $200 = $30,400	
Internal Communication and Collaboration Tool	$1,000+ $400 = $1,400	
9. Implement operations and growth		
Client Management Tools Setup	200-hour x $90 = $18,000	$60,500
Day-to-Day Operations Management	120x $50+ 120x $90 = $16,800	
Partnership Development	160x $20 = $3,200	
Expanding Service Offerings	80x $20 = $1,600	
Team Growth	37-hour x $50+ 44-hour x $50+ 49-hour x $50 + 160-hour x $90 = $20,900	

TOTAL COST: $172,860.00

From Libra:

Gantt Chart:

		Name
1		**Develop business plans and financial proje**
2		Market Research
3		Financial Planning
4		**Business Model and Strategy**
5		Service Offering Definition
6		Pricing Strategy
7		**Secure funding and resources**
8		Identifying Funding Sources
9		Investor Meetings
10		Incorporation and Legal Registration
11		**Build brand and marketing**
12		Logo and Tagline Creation
13		Brand Guidelines Documentation
14		**Build a website and online services**
15		Website Design and Development
16		Social Media Account Setup
17		Content creating
18		Blogs
19		**Implementing services of pricing and offer**
20		Observing and planning
21		Core Service Offering (Risk Assessment, Penetr
22		Custom Service Bundles and Packages
23		Finalizing Pricing (Hourly, Project-based)
24		**Recruitment and Team Development**
25		Job Role Definitions and Descriptions
26		Candidate Sourcing
27		Interviewing and Hiring
28		Team Training
29		**Implement a cyber security office**
30		Cybersecurity Tools Installation
31		Internal Communication and Collaboration Tool
32		**Implement operations and growth**
33		Client Management Tools Setup
34		Day-to-Day Operations Management
35		Partnership Development
36		Expanding Service Offerings
37		Team Growth



Resources:

	Name	RBS	Type	E-mail Address	Material Label	Initials	Group	Max. Units	Standard Rate	Overtime ...	Cost Per Use	
	Project Manager		Work	iffatpinky831@gmail.com		P		100%	$20.00/hour	$30.00/hour	$20.00	P
	Security Consultants		Work	nzmunni@gmail.com		S		100%	$50.00/hour	$70.00/hour	$50.00	P
	Security Analysts		Work	nadia@gmail.com		S		100%	$50.00/hour	$70.00/hour	$50.00	P
	Security Awareness Trainers		Work	asifayon@gmail.com		S		100%	$50.00/hour	$70.00/hour	$50.00	P
	Marketing and Sales Team		Work	rodoshibrainless@gmail.com		M		100%	$90.00/hour	$150.00/h...	$90.00	P
	Firewall Appliances		Material			F			$0.00		$2000.00	P
	Routers		Material			R			$0.00		$100.00	P
	Intrusion Detection/Prevention System (IDS/IPS) Appliances		Material			I			$0.00		$700.00	P
	Laptops/Desktops		Material			L			$0.00		$1000.00	P
	Mobile Devices		Material			M			$0.00		$400.00	P
	Hardware Security Modules (HSMs)		Material			H			$0.00		$20000.00	P
	Network Monitoring Devices		Material			N			$0.00		$500.00	P
	Encryption Appliances		Material			E			$0.00		$5000.00	P
	Secure USB Drives		Material			S			$0.00		$50.00	P
	Secure VoIP Phones		Material			S			$0.00		$150.00	P
	CCTV Cameras		Material			C			$0.00		$300.00	P
	UPS		Material			U			$0.00		$200.00	P

Allocation of each resource to each task:

	Develop business plans and financial proje	**60 days?**	**9/11/24 8:00 AM**	**11/9/24 5:00 PM**		
	Market Research	30 days?	9/11/24 8:00 AM	10/10/24 5:00 PM		Project Manager
	Financial Planning	30 days?	10/11/24 8:00 AM	11/9/24 5:00 PM	2	Project Manager
	Business Model and Strategy	**7 days?**	**11/10/24 8:00 AM**	**11/16/24 5:00 PM**	**1**	
	Service Offering Definition	3 days?	11/10/24 8:00 AM	11/12/24 5:00 PM	3	Marketing and Sales Team
	Pricing Strategy	4 days?	11/13/24 8:00 AM	11/16/24 5:00 PM	5	Marketing and Sales Team
	Secure funding and resources	**75 days?**	**11/17/24 8:00 AM**	**1/30/25 5:00 PM**	**4**	
	Identifying Funding Sources	22 days?	11/17/24 8:00 AM	12/8/24 5:00 PM	6	Project Manager
	Investor Meetings	23 days?	12/9/24 8:00 AM	12/31/24 5:00 PM	8	Project Manager
	Incorporation and Legal Registration	30 days?	1/1/25 8:00 AM	1/30/25 5:00 PM	9	Project Manager
	Build brand and marketing	**60 days?**	**1/31/25 8:00 AM**	**3/31/25 5:00 PM**	**7**	
	Logo and Tagline Creation	30 days?	1/31/25 8:00 AM	3/1/25 5:00 PM	10	Project Manager
	Brand Guidelines Documentation	30 days?	3/2/25 8:00 AM	3/31/25 5:00 PM	12	Project Manager
	Build a website and online services	**40 days?**	**4/1/25 8:00 AM**	**5/10/25 5:00 PM**	**11**	
	Website Design and Development	20 days?	4/1/25 8:00 AM	4/20/25 5:00 PM	13	Project Manager
	Social Media Account Setup	10 days?	4/21/25 8:00 AM	4/30/25 5:00 PM	15	Project Manager
	Content creating	5 days?	5/1/25 8:00 AM	5/5/25 5:00 PM	16	Project Manager
	Blogs	5 days?	5/6/25 8:00 AM	5/10/25 5:00 PM	17	Project Manager
	Implementing services of pricing and offer	**20 days?**	**5/11/25 8:00 AM**	**5/30/25 5:00 PM**	**14**	
	Observing and planning	5 days?	5/11/25 8:00 AM	5/15/25 5:00 PM	18	Security Consultants
	Core Service Offering (Risk Assessment, Penetr	5 days?	5/16/25 8:00 AM	5/20/25 5:00 PM	20	Security Consultants
	Custom Service Bundles and Packages	5 days?	5/21/25 8:00 AM	5/25/25 5:00 PM	21	Security Consultants
	Finalizing Pricing (Hourly, Project-based)	5 days?	5/26/25 8:00 AM	5/30/25 5:00 PM	22	Security Consultants
	Recruitment and Team Development	**60 days?**	**5/31/25 8:00 AM**	**7/29/25 5:00 PM**	**19**	
	Job Role Definitions and Descriptions	5 days?	5/31/25 8:00 AM	6/4/25 5:00 PM	23	Security Analysts;Security ...
	Candidate Sourcing	10 days?	6/5/25 8:00 AM	6/14/25 5:00 PM	25	Security Awareness Trainers
	Interviewing and Hiring	25 days?	6/15/25 8:00 AM	7/9/25 5:00 PM	26	Security Awareness Trainer...
	Team Training	20 days?	7/10/25 8:00 AM	7/29/25 5:00 PM	27	Security Awareness Trainers
	Implement a cyber security office	**60 days?**	**7/30/25 8:00 AM**	**9/27/25 5:00 PM**	**24**	
	Cybersecurity Tools Installation	30 days?	7/30/25 8:00 AM	8/28/25 5:00 PM	28	UPS;Firewall Appliances;Ro...
	Internal Communication and Collaboration Tool	30 days?	8/29/25 8:00 AM	9/27/25 5:00 PM	30	Mobile Devices;Laptops/Des...
	Implement operations and growth	**90 days?**	**9/28/25 8:00 AM**	**12/26/25 5:00 PM**	**29**	
	Client Management Tools Setup	25 days?	9/28/25 8:00 AM	10/22/25 5:00 PM	31	Marketing and Sales Team
	Day-to-Day Operations Management	15 days?	10/23/25 8:00 AM	11/6/25 5:00 PM	33	Marketing and Sales Team;S...
	Partnership Development	20 days?	11/7/25 8:00 AM	11/26/25 5:00 PM	34	Project Manager
	Expanding Service Offerings	10 days?	11/27/25 8:00 AM	12/6/25 5:00 PM	35	Project Manager
	Team Growth	20 days?	12/7/25 8:00 AM	12/26/25 5:00 PM	36	Security Consultants;Securi...

CONCLUSION

Estimated Duration of the whole project: 1.5 year (547 days approximate)	Critical Duration: 472 days
Overtime Period/ Buffer: 547 days – 472 days = 75 days	
Estimated Cost/ Final Budget (After allocation): $172,860.00	Initial Budget: $200,000.00
Revised Budget: $200,000.00 - $172,860.00 = $27,140	

Time Buffer:

The buffer time refers to the additional time factor in our project plan to ensure our project is not delayed when some of the sub-tasks get delayed. It is the period of overtime to resolve the project plan. The time buffer in our cybersecurity consultancy startup is extra time added to project schedules to account for unexpected delays or challenges. Since our cybersecurity projects can be complex and unpredictable, issues like technical difficulties, evolving security threats, compliance hurdles, or client-side delays can arise. By building in a time buffer, the startup ensures it has enough flexibility to handle these unexpected events without missing deadlines. This will help us to manage client expectations, reduce stress on the team, and maintain a high level of service quality. Time buffers is an important factor in cybersecurity, where delays can have serious consequences if systems aren't secured on time.

Revised Budget:

The revised budget in our cybersecurity consultancy startup is an updated version of the original financial plan. It adjusts for new or unexpected costs and changes in the business. For example, our startup might need to hire more staff or reduce the team, which affects salaries. It could also need to spend more on important security software or tools. The budget may change to cover costs related to certifications or meeting legal requirements. Other areas like office expenses, marketing to get new clients, and staff training might also be adjusted. Sometimes, emergency situations or extra client work can lead to changes in the budget. A revised budget will help us in the startup stay flexible and manage its finances effectively.