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## 1. Project Charter

## 1.1 Purpose Statement

To develop a digital education outreach platform at UNSW aimed at supporting students from disadvantaged backgrounds. The platform will enhance students' academic and personal development, foster mentorship and peer support, and provide career exploration opportunities, in line with UNSW's 2025 Strategy for social impact.

## 1.2 Objectives and Success Criteria

#### **Academic Excellence:**

- 1. Support high-quality research and maintain UNSW's status among the top 50 research-intensive universities.
- 2. Provide practical coursework resources, enhancing educational excellence.
- 3. Offer hands-on experience to over 500 students and researchers annually.
- 4. Facilitate the publication of at least five Q1 journal articles each year.

## **Innovation and Engagement:**

- 1. Foster collaboration within UNSW and with external universities and industries.
- 2. Attract new international research collaborations.
- 3. Promote entrepreneurship, increasing UNSW Founders Program start-ups to 1100 by 2025.
- 4. Secure \$5 million in research funding within five years post-project completion.
- 5. Enhance UNSW's campus and gain media recognition.
- 6. Support local manufacturing with sustainable techniques.

# 1.3 Requirements

## **Functional Requirements:**

- 1. Resource Repository:
- Articles, videos, tutorials, and webinars for academic and personal development.

- 2. Mentorship and Support:
- Connect students with UNSW and industry mentors for academic and personal growth.
- 3. Community Engagement and Peer Support:
- Online communities for student interaction.
- 4. Career Exploration and Networking:
- Virtual and in-person events for career path exposure.
- 5. Progress Tracking and Goal Setting:
- Tools for tracking progress and setting goals with mentor feedback.

## **Non-Functional Requirements:**

- 1. User-Friendly Interface:
- Intuitive and easy-to-navigate.
- 2. Scalability:
- Support a growing number of users and resources.
- 3. Security and Privacy:
- Protect user data and communications.
- 4. Reliability and Availability:
- Ensure uninterrupted access with backup plans.
- 5. Performance:
- Fast loading times and minimal latency.
- 6. Accessibility:
- Comply with WCAG standards.
- 7. Compliance:
- Adhere to educational, legal, and data protection regulations.

## **Other Requirements:**

- Screen mentors for student safety.
- Collect user feedback to improve functionality.
- Partner with NSW schools for platform access.
- Engage stakeholders effectively.
- Follow standard software development practices.

# 1.4 Project Boundaries

## **Scope:**

Development and deployment of the digital education outreach platform with specified features.

## Time:

Project duration is accepted to be 10 months.

## **Cost:**

The budget is constrained to \$450,000.

## **Project Priority Matrix**

	Constrain	Optimise	Accept
Scope		✓	
Time			✓ 10 months
Cost	<b>√</b> \$450,000		

## 1.5 Stakeholder List

	STAKEHO	LDERS REC	GISTER	
Name	Position	Classification	UNSW Association	Organisation or Group
Individual or Partnership Investors	Sponsor	Primary	Internal	UNSW
Traditional Educators		Primary	Internal	UNSW
Professor and Tutor	UNSW Academic Staff	Primary	Internal	UNSW
Researchers		Primary	Internal	UNSW
Administration Staff		Primary	Internal	UNSW
Technical Support Staff	UNSW Professinal Staff	Primary	Internal	UNSW
Logistics Staff	UNSW Professinal Staff	Primary	Internal	UNSW
Finance		Primary	Internal	UNSW
Alumni		Secondary	Internal	UNSW
Current Students	Students Community	Secondary	Internal	UNSW
Future Sudents	Students Community	Secondary	Internal	UNSW
International Students		Secondary	Internal	UNSW
Competing Platforms		Secondary	External	Academic Community
Other Universities		Secondary	External	Academic Community
Educatinal Institutions	Social Community	Secondary	External	Academic Community
General Public	Social Community	Secondary	External	Public Sector
IT Development Teams		Secondary	External	Private Companies
Local Businesses		Secondary	External	Private Companies
Related Department	Government	Secondary	External	Australian Government
Education Bloggers & Journalists	Media	Secondary	External	Media Companies
Industry Leaders	Industry Resources	Secondary	External	Public Sector
Industry Professionals	mustry Resources	Secondary	External	Public Sector

## 1.6 High Level Risks

The main high-level risks, which in Digital Educational Platform project, have delays in publish documents and technical development, database, not follow the rules, passive stakeholder participation and not meet user needs. To reduce these risks, the project will use clear documentation control, strong security measures, regular compliance checks, better communication methods, and detailed user experience research and testing.

## 1.7 Summary of Schedule and Milestones

August 2024: Project start.

**September 2024 - November 2024:** Initial development phase, including design the structure and database.

December 2024 - February 2025: Focused on fronted and backend design.

March 2025: Some testing phase, such as feedback of users.

April 2025 - May 2025: Final all of create phase and prepare for testing.

**June 2025:** Final testing and publish project document.

# 1.8 Summary of Preliminary Budget

Key budget allocations include:

**Total Budget:** \$450,000

**Monthly Spending Breakdown:** 

**August 2024:** \$7,949 - project setup and early development.

**September 2024:** \$7,519 - Continued initial development.

October 2024: \$9,069 - Early technical development.

November 2024: \$36,045 - Main development.

**December 2024:** \$26,158.5 - Midterm development costs and interface design.

**January 2025:** \$17,247.5 - Continued design and security implementation.

**February 2025:** \$87,289 - Integration and performance testing.

March 2025: \$59,863 - Continued integration and testing.

**April 2025:** \$65,551 - Scalability enhancements.

May 2025: \$16,364.5 - User feedback incorporation.

**June 2025:** \$76,001.5 - Final development adjustments, Final testing and preparations, Launch preparation and post-launch support.

This budget ensures that all critical aspects of the project, from initial development to final deployment, are adequately funded. Regular budget reviews and adjustments will be conducted to ensure financial control and project success.

## 2. Scope Plan

# 2.1 Collect Requirements

## How to collect requirements from clients:

- According to communicate with students and stakeholders, get their requirements and expectations.
- Organize meeting with groups in order to collect detailed feedback on specific aspects of the platform.
- Review existed literature and researches that on similar educational platforms, in order to find identify best practices.
- Analyze data from existing systems at UNSW which can identify gaps and opportunities for improvement.

## **Requirements:**

- This platform, which should be designed user-friendly, safe, and reliable.
- Something important must be provided, such as educational resources, mentoring programs, peer support, career exploration opportunities, and progress tracking and goal setting tools.
- The features of the platform should be usable, extensible, secure, reliable, and accessible.
- Compliance with educational and legal regulations.
- Registration must be made on UNSW's platform.

## 2.2 Define Scope

#### 2.2.1 Deliverables

- **Resource Repository:** A comprehensive collection of educational resources which including articles, videos, tutorials, and webinars.
- Mentorship and Support: A network which used to connecting students with UNSW mentors and industry professionals, offering both online and face-to-face options.
- Community Engagement and Peer Support: Creating interest groups and discussion activities in virtual world.
- Career Exploration and Industry Networking Events: Tools which can use for career planning and lectures.
- Progress Tracking and Goal Setting: Tools that used for students to achieve and check their learning and development goals.

#### 2.2.2 Constraints

- The budget, which this project completed, must be within \$450,000, including all contingencies.
- The time that project completed must be less than 10 months
- The project is sponsored and funded by UNSW.

#### 2.2.3 Exclusions

Projects do not include development, maintenance or installation of potential future extensions.

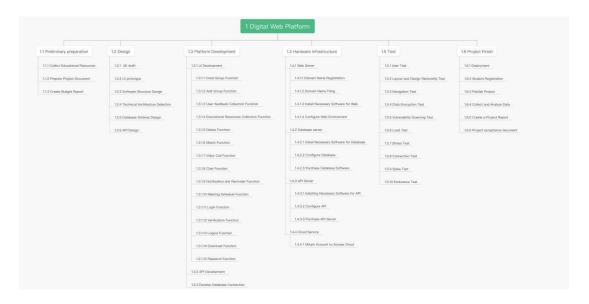
# 2.3 Scope Statement

The aim of this project is developing a digital platform which can support disadvantaged students in transitioning to university. According to this, the platform need to provide some functions, including search for educational resources, get guidance, peer support, career exploration opportunities, and progress tracking tools.

The project will be completed less than 10 months and under the budget of \$450,000,

at same time it need to ensure usability, scalability, security, reliability, and accessibility, while complying with educational and legal regulations. Registration will be through UNSW's platform only.

## 2.4 Work Breakdown Structure (WBS)



WBS chart

# 2.5 PMBOK Referenced PM Methods Used in Scope – Discussion

- Requirements Management: Techniques such as interviews, focus groups, and surveys are used to gather requirements, ensuring stakeholder needs are met.
- Scope Definition: Clear definition of project deliverables and boundaries to prevent scope creep.
- WBS Development: Breaking down the project into manageable components for better planning and control.
- **Scope Verification:** Ensuring that all deliverables meet the predefined criteria and are accepted by the stakeholders.
- Scope Control: Monitoring project scope and managing changes to the scope baseline.

## 3. Stakeholder Management Plan

## 3.1 Stakeholder Identification

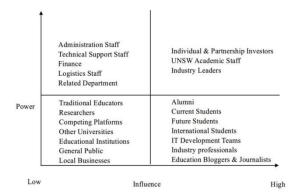
To brainstorm stakeholders:

- Brainstorming Sessions: Conduct brainstorming sessions with the project team
  to identify potential stakeholders based on their benefits from the project and
  contributions to it.
- Stakeholder Analysis Workshops: Organize workshops with key project members to discuss and list individuals and groups who might be impacted by the project or have influence over it.
- Review of Project Documentation: Project charters, business cases, and similar projects should be studied in order to identify stakeholders.
- Stakeholder Mapping: Prepare stakeholder mapping that will comprise internal and external stakeholders such as the students, faculty, the college administration, future employers, and the government.
- Interviews and Surveys: Go to the list of existing stakeholders and ask them who else should be included in the list.

## 3.2 Stakeholder Assessment

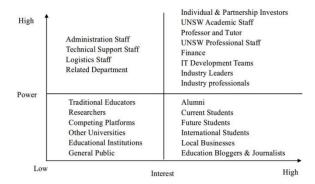
### 3.2.1 Power Influence Grid

Power Influence Grid: The power/Influence Grid that needs to be utilized for staking the project is demonstrated below. This aids in identifying the management action to be taken with regard to the stakeholders.



### 3.2.2 Power Interest Grid

Power Interest Grid: Use the Power/Interest Grid to categorize stakeholders based on their level of power and interest in the project. This helps in prioritizing engagement efforts.



# 3.3 Stakeholder Engagement

## 3.3.1 Engagement Matrix

Engagement Matrix: Develop an engagement matrix that details the level of engagement required for each stakeholder category (e.g., inform, consult, involve, collaborate, empower).

				PROJE	CT STAKEHOLDER ANALYSIS	and MANAGEMENT		
Name	Position	Power	Interest	Enagement Strategy	The most important goal	How will they contribute	The best way to manage	
Individual or Partnership Investors	Sponsor	5	4	Empower	Secure a return on investment	Provide funding and resources	Regular updates and transparent communication	
Fraditional Educators		3	5	Inform		3000000		
Professor and Tutor	UNSW Academic Staff	1	3	Inform	Ensure the plantform enhances academic	Provide feedback, use the platform for teaching and research	Engage in regular feedback sessions	
Researchers		2	3	Consult				
Administration Staff		3	2	Consult				
l'echnical Support Staff	UNSW Professinal Staff	3	2	Consult	Smooth operation and integration of the platform	Support in administration, technical issues, logistices, and financial aspects	Regular training and update sessions	
Logistics Staff	UNSW Professinal Staff	rotessinal Staff 3 2 Consult Smooth operation and integration of the positrorm Support in administration, technical issues, logistices, and financial aspects		Regular training and update sessions				
Finance		3	2	Consult				
Alumni		1	1.	Monitor				
Current Students	Students Community	1 2 Monitor P. C.		Benefit from the platform's features	Use the platform, provide feedback	Surveys, feedback forms, and user experience sessions		
Future Sudents	Students Community 1		2	Monitor	Benefit from the platform's features	Use the platform, provide feedback	Surveys, feedback forms, and user experience session	
International Students		1	2	Monitor				
Competing Platforms		1	1	Monitor				
Other Universities		1	2	Monitor	Understand the platform's value proposition	Potential collabration or competition	Market research and competitive analysis	
Educatinal Institutions	Social Community	1	2	Monitor		1944 A 4 1 (10 1 (10 10 10 10 10 10 10 10 10 10 10 10 10 1		
T Development Teams		2	2	Monitor	Develop and maintain the platform	Handle technical development and maintenance	Regular sprint reviews and agile methodologies	
Local Businesses	2 2 Monitor Benefit from potential collabora		Benefit from potential collaborations	Offer services or collaborations with the platform	Partnership meetings and agreement			
Related Department	Government	2	2	Inform	Ensure the plantform adheres to regulations	Provide regulatory guidance	Regular compliance checks	
Education Bloggers & Journalists	Media	1	1	Monitor	Disseminate information about the platform	Write articles, blogs, and reports	Press releases and media briefings	
Industry Leaders		1	1	Monitor	Enhance the platform's industry relevance	Provide industry insights, quest lectures, mentorship	William Co. Co.	
Industry Professionals	Industry Resources		1 1 Monitor		tinnance the piatrorm's industry relevance	Provide industry insignts, guest lectures, mentorship	Industry forums and partnership agreements	

RATING	POWER	DEFINITION						
5	Very High	The stakeholder can direct the course of the project						
4	High	The stakeholder can have a major impact the course of the project's schedule and/or budget						
3	Moderate	The stakeholder can have a minor impact the course of the project's schedule and/or budget						
2	Low	The stakeholder cannot impact he project. But may know someone who can						
1	Very Low	The stakeholder cannot directly impact tthe project						
			RATING	1	2	3	4	5
RATING	INTEREST	DEFINITION	5	Consult	Involve	Collaborate	Empower	Empower
5	Very High	The stakeholder is passionately for the project, and will be devastated once the project failed.	4	Inform	Consult	Involve	Collaborate	Empower
4	High	The stakeholder is highly supportive and don't want the project fails	3	Inform	Consult	Consult	Involve	Collaborate
3	Moderate	The stakeholder sees benefits to themselves and will be annoyed the failure of the project	2	Monitor	Inform	Consult	Consult	Involve
2	Low	The stakeholder sees benefits to others and perfer the succeed of the project but not very strong.	1	Monitor	Monitor	Inform	Inform	Consult
1	Very Low	The stakeholder have no interest of the project.						
STRATEGY	CAPABILITIES	DEFINITION						
Empower	Maintain	The stakeholder can make specific decisions about the project						
Consult	Meet	Obtain the feedback on key decisions						
Inform	Manage	Provide with revelent, high-level information about the project						
Monitor	Monitor	Track the stakeholder's commentary to see if their level or interest changes						

#### 3.3.2 Detailed Plan

- Regular Communications: Schedule regular updates, meetings, and feedback sessions tailored to the needs of different stakeholder groups.
- Feedback Mechanisms: Implement channels, such as suggestion boxes, online forums and regular surveys, can provide continuous feedback.
- Transparent Reporting: Cultivate the trust and support that is needed for a
  report, such as the status of the project, issues, and/or alterations that may have
  arisen during the course of the project implementation.
- **Training and Support:** Share with the stakeholders of the project, including but not limited to training and assistance to enable them to participate in the project.

# 3.4 PMBOK Referenced PM Methods Used in Stakeholder Management

- Stakeholder Identification: Stakeholder Analysis (PMBOK 6th Edition, Section 13.1.2.3): This entails the process of identifying all the stakeholders of the project and recording information concerning their interests, roles required, interdependency, power, and the effect they can have on the project's success.
- Planning Stakeholder Engagement: Stakeholder Engagement Assessment Matrix (PMBOK 6th Edition, Section 13.2.2.5): This tool is used to determine the extent of engagement of the stakeholders at the current point in time against the level of engagement that is deemed necessary to support the project. It will be useful for the purpose of building long and short-term plans on how to influence the stakeholders effectively.

- Managing Stakeholder Engagement: Communication Management Plan (PMBOK 6th Edition, Section 10.1.3.1): This tool assists in determining the level of engagement of the current stakeholders in relation to the level of engagement that is expected to be achieved by the stakeholders for the success of the project, is very useful. It also assists in the measurement of specific strategies that are called for to enhance the relational strategies with the stakeholders.
- Monitoring Stakeholder Engagement: Stakeholder Register (PMBOK 6th Edition, Section 13.1.3.1): The power/interest grid, which presents the assessment and the classification of the aforesaid stakeholders, is also crucial, as is this document. By it, the communications of the project stakeholders are managed, and their needs and expectations, which can be termed as major decision-making success factors of a project, are fulfilled during the course of the projects.
- Power/Interest Grid and Power/Influence Grid: Power/Interest Grid (PMBOK 6th Edition, Section 13.1.2.4): This tool, which is known as the power-interest matrix, splits the stakeholders in terms of the amount of power they possess in relation to the project and the extent of their interest in the project is useful. It assists in identifying who shall be a stakeholder and the kind of relationship that is required between him and the organization.
- Stakeholder Engagement Plan: Stakeholder Engagement Plan (PMBOK 6th Edition, Section 13.2.3.1): The plan that contains the strategies and activities directed at improving the efficiency of the stakeholders' actions regarding the consideration and implementation of the project decisions is viewed as strategic. This section predicates when and in what manner the team of people that are going to be implementing the project will communicate to the stakeholders regarding their needs.
- Feedback Mechanisms: Feedback Collection (PMBOK 6th Edition, Section 4.7.2): It is necessary to apply tools like surveys, focus groups, and feedback forms that are aimed at collecting stakeholders' opinions. That way, it is easier to determine how stakeholders view the project and what changes can be made where necessary.

# 4. Budget

# 4.1 Cost & Time Estimation Table

Work Packages	Scheduled days	Actual working days	Duration in hours	Salary cost (\$)	Materia 1 cost (\$)	Total cost (\$)
Collect Educational Resources	29	20	160	7232	717	7949
Prepare Project	29	20	160	7232	287	7519
Document	23	20	100	1232	201	1019
Create Budget Report	31	22	184	7921	1148	9069
UE Draft	29	20	160	7232	430	7662
UI Prototype	31	20	160	7576	1004	8580
Software Structure	26	20	160	6199	861	7060
Design Technical						
Architecture Design	26	20	160	6199	1435	7634
Database Schema						
Design	26	20	160	6199	717	6916
API Design	26	20	160	6199	574	6773
Developing UI	26	20	160	6199	861	7060
Create Group	17	13	104	4132	430	4562
Function						
Add Group Function	17	13	104	4132	430	4562
User Feedback	17	13	104	4132	287	4419
Collection Function						
Educational	17	10	104	4190	007	4410
Resources Collection Function	17	13	104	4132	287	4419
Delete Function	17	13	104	4132	287	4419
Matching Function	17	13	104	4132	287	4419
Video Call Function	17	13	104	4132	287	4419
Video Call I diletion	- 11	10	104	4132	201	7113
Chat Function	17	13	104	4132	287	4419
Notification and						
Reminder Function	17	13	104	4132	287	4419
Meeting Schedule	17	19	104	4199	997	4410
Function	17	13	104	4132	287	4419
Login Function	17	13	104	4132	287	4419
Verification Function	17	13	104	4132	287	4419
Logout Function	17	13	104	4132	287	4419
Download Function	17	13	104	4132	287	4419
Research Function	17	13	104	4132	287	4419
API Development	30	22	176	7576	1435	9011
Develop Database	58	44	352	14465	2870	17335
Connection						
Domain Name Registration	24	18	144	5854	430	6284
Domain Name Filing	29	21	168	7232	717	7949
Obtaining Account to						
Access Cloud	29	21	168	7232	717	7949
Installing Necessary	7	5	40	1722	287	2009
Software for Web	,	J	-10	1122	201	2009
Configuring Web	13	9	72	3099	430	3529
Environment						
Purchase Database Software	25	19	152	5854	717	6571
Installing Necessary						
Software for	7	5	40	1722	287	2009
Database						
Configuring Database	21	15	120	5166	861	6027
Purchase API Server	25	19	152	5854	1148	7002
Installing Necessary	7	5	40	1722	143	1865
Software for API		3		1122	140	
Configuring API	20	14	112	4821	717	5538
User Testing	30	21	168	7576	1004	8580
Layout and Design	57	20	160	13776	2152	15928
Rationality Testing						
Navigation Testing	26	20	160	6199	861	7060
Data Encryption	28	20	160	6888	1148	8036
Testing Vulnerability						
Scanning Testing	28	20	160	6888	1148	8036
Load Testing	28	20	160	6888	1148	8036
Stress Testing	28		160	6888	1148	8036
Connection Testing	28		160	6888	1148	8036
Spike Testing	28		160	6888	1148	8036
Endurance Testing	28		160	14465	2870	17335
Deployment	58	42	336	14465	2870	17335
Student Registraton						
Process	14	11	88	14120	2152	16272
Create a Project	12	10	80	7232	1148	8380
Report						
Publish Project Files	5	4. 88	39. 04	15498	2870	18368
Collect and Analyze	28	20.88	167. 04	14465	2152	16617
Data  Project Acceptance						
Project Acceptance Document	58	42	336	13156	2238	15394
Document						

# 4.2 Project Budget

## • Contingency Plan:

To ensure we stay within budget, we will include a contingency fund. A typical contingency fund is around 10-15% of the total project cost. For this project, let's use 12.5%.Contingency Fund:

Contingency Percentage=12.5%

Contingency Amount=12.5% × 399,962=49,995.25

• Total Budget Including Contingency:

Total Budget=Total Cost+Contingency Amount

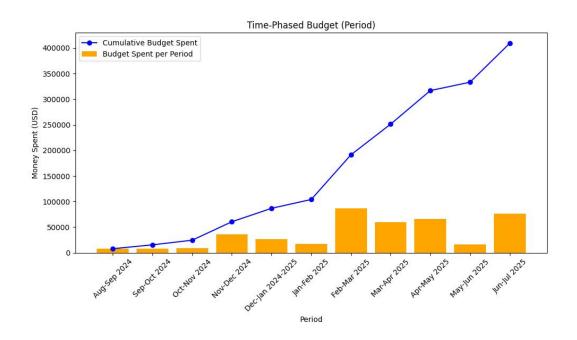
Total Budget=399,962+49,995.25=449,957.25

Therefore, the total project budget, including a contingency plan, is \$449,957.25.

This budget includes a buffer for unexpected expenses, ensuring that we will not exceed the budget limit even if some unplanned costs arise.

# 4.3 Time Phased Budget

Work Package	Cost	August-24	September-24	October-24	November-24	December-24	January-25	February-25	March-25	April-25	May-25	June-25	July-25
Collect Educational Resources	\$717.00	\$717.00	September-24	Ottobereza	NOVEMBER 24	Determour-24	Amuary-23	reuruary-25	marcines	April-23	may-23	Aute-23	Augres
	\$717.00	\$71700	\$287.00										
Prepare Project Document			\$287.00										
Create Budget Report	\$1,148.00			\$1,148.00									
UE Draft	\$430.00				\$430.00								
Ut Prototype	\$1,00400						\$1,004.00						
Software Structure Design	\$861.00				\$861.00								
Technical Architecture Design	\$1,43500				\$1,435.00								
Database Schema Design	\$717.00				\$717.00								
API Design	\$574.00				\$574.00								
Developing UI	\$861.00							\$861.00					
Create Group Function	\$430.00							\$430.00					
Add Group Function	\$430.00							\$430.00					
User Feedback Collection	\$287.00							\$287.00					
Educational Resources	15000000							1 10000000					
Collection Function	\$287.00							\$287.00					
Delete Function	\$287.00							\$287.00					
Matching Function	\$287.00							\$287.00					
Video Call Function	\$287.00							5287.00					
Chat Function	\$287.00							\$287.00					
Notification and Reminder	\$287.00							\$287.00					
function	\$287.00												
Meeting Schedule Function							-	\$287.00 \$287.00				l	<b> </b>
Login Function	\$287.00									-			
Verification Function	\$287.00							\$287.00					
Logout Function	\$287.00						8	\$287.00					
Download Function	\$287.00							\$287.00					
Research Function	\$287.00							\$287.00					
API Development	\$1,435.00					\$1,435.00	0	0 -					
Develop Database Connection	\$2,87000					\$1,435.00	\$1,485.00	10					
Domain Name Registration	\$430.00							\$430.00					
Domain Name Filing	\$717.00								\$717.00				
Obtaining Account to Access	\$717.00								\$717.00				
Cloud Installing Necessary Software													
for Web	\$287.00								\$287.00				
Configuring Web Environment	\$430.00								\$430.00				
Purchase Database Software	\$717.00	4					14	\$717.00					
								-	1270803110				
Installing Necessary Software for Database	\$287.00								\$287.00				
Configuring Database	\$861.00								\$861.00				
Purchase API Server	\$1,14800							\$1,148.00					
Installing Necessary Software	1000								2				
for API	\$143.00						80		\$143.00				
Configuring API	\$717.00							45	\$717.00				
User Testing	\$1,00400					\$1,004,00							
Layout and Design Rationality	\$2,15200								\$2,15200				
Testing													
Navigation Testing	\$861,00								\$861.00				
Data Encryption Testing	\$1,14800									\$1,148.00			
Vulnerability Scanning Testing	\$1,14800									\$1,148.00			
Load Testing	\$1,14800							1		\$1,148.00			
Stress Testing	\$1,14800									\$1,148.00			
Connection Testing	\$1,14800									\$1,148.00			
Spike Testing	\$1,14800									\$1,148.00			
Endurance Testing	\$2,87000									\$2,870.00			<u> </u>
300000000000000000000000000000000000000	\$2,87000	-			_	<u> </u>		-		\$2,870.00	\$1,485.00	\$1,435.00	<b>-</b>
Deployment	W. P. D. C. L.										\$1,485.00		
Student Registraton Process	\$2,15200						-					\$2,152.00	
Create a Project Report	\$1,148.00											\$1,148.00	
Publish Project Files	\$2,87000											\$2,870.00	
Collect and Analyze Data	\$2,15200											\$2,152.00	
Project Acceptance Document	\$2,238.00			1							\$1,119.00	\$1,119.00	
Salary of HR	\$358,568.00	\$7,232.00	\$7,232.00	\$7,921.00	\$32,028.00	\$22,38450	\$14,808.50	\$79,542.00	\$52,691.00	\$55,793.00	\$13,810.50	\$65,125.50	
Total	\$409,157.00	\$7,949.00	\$7,519.00	\$9,069.00	\$36,045.00	\$26,258.50	\$17,247.50	\$87,289.00	\$59,863.00	\$65,551.00	\$16,364.50	\$76,001.50	
					\$40,582.00	\$86,840.50	\$104,088.00	\$191,377.00					



# 4.4 PMBOK Referenced PM Methods Used in Cost – Discussion

In order to manage the projects of the PMBOK Digital Education Platform, the PMBOK name covers many aspects:

Using a bottom-up approach, accurate cost projections are prepared by aggregating the costs of individual activities and preparing comprehensive budgets.

The estimated cost is integrated into the project cost by adding costs together, thus ensuring that there is a proper allocation of funds at all stages of the project.

Therefore, use results management (EVM) to monitor projects, that is, compare cost and schedule levels to identify and address cost differences.

Establish contingency reserves to cover identified risks and provide a buffer against unforeseen costs.

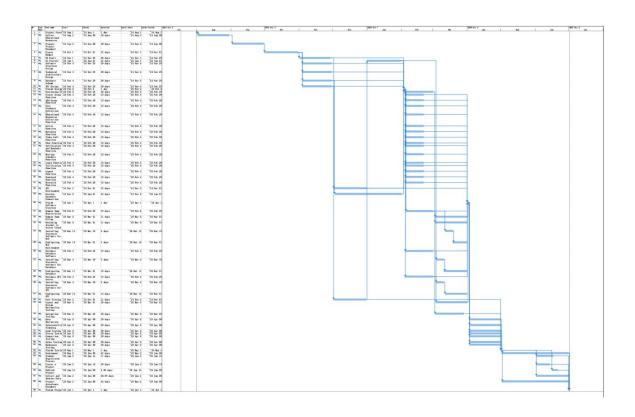
Regular and routine surveys of future project costs should be conducted against current performance indicators to support predictability and control of overruns.

Revision Control Board (CZB) to review and approve changes to the budget to maintain the integrity of the cost baseline.

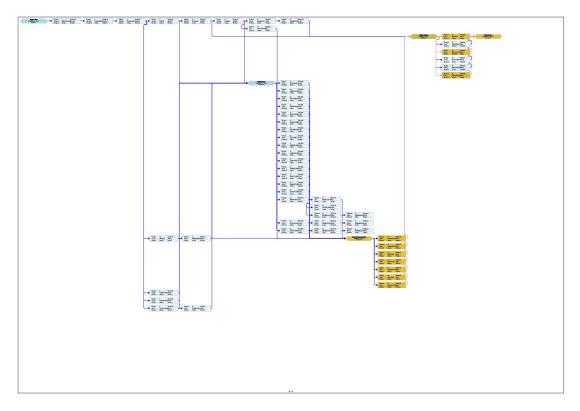
Assess financial viability and ensure that project objectives match value by comparing expected benefits and associated costs.

## 5. Schedule

## 5.1 Gantt Chart



## 5.2 Web Chart



The orange color means critical path

# 6. Risk Management Plan

Effective risk management is crucial for successfully delivering the digital web platform designed to support students from low-socioeconomic status backgrounds. The following sections outline the approach to identifying, assessing, and managing the risks associated with this project.

# 6.1 Risk Identification

Item	Failure Mode	Cause	of	Effect	Remedy:
		Failure			Recommended
					Action
1.	Delay in	Failure	in	Project	Effective
Specification	documentation	program		delivery delay	control in
Documentation		monitoring			documentation

2. Technical	Delayed	Insufficient	Project	Effective
Development	implementatio	developers	delivery delay	control in labor
3. Security &	n Data breach	Inadaguata	Loss of user	budgeting Implement
Privacy	Data breach	Inadequate security	trust and legal	robust security
Tilvacy		measures	issues	protocols
4. Compliance	Regulatory	Lack of	Legal penalties	Regular
compilation	non-complianc	awareness of	and project	compliance
	e	regulations	delays	audits and
				training
5. Stakeholder	Low	Ineffective	Reduced	Enhance
Engagement	engagement	communicatio	support and	stakeholder
	levels	n strategies	adoption	communicatio
				n plans
6. User	Low platform	Poor user	Limited impact	Conduct user
Adoption	adoption	interface	of the platform	experience
		design		research and
7. Equipment	Technical	Poor	Project	testing Regular
& Machines	failures	maintenance	delivery delay	maintenance
& Machines	Tarrures	mamicinance	derivery deray	and having
				backup
				equipment
8. Training and	Inadequate	Insufficient	User	Develop
Support	training	resources	dissatisfaction	comprehensive
	materials	allocated	and reduced	training
			platform usage	materials
9. Data	Data loss	Poor data	Loss of critical	Implement
Management		management	user data	data backup
		practices		and recovery
10.	Slow platform	Inadequate	User	solutions Invest in
Performance	performance	infrastructure	frustration and	scalable
Terrormance	performance	mmastractare	reduced	infrastructure
			platform usage	
11. Feedback	Ineffective	Lack of	Missed	Implement
Mechanism	feedback	structured	opportunities	structured
	collection	feedback	for	feedback
		processes	improvement	collection
			_	processes
12. Mentorship	Mismatch of	Ineffective	Poor	Develop robust
Program	mentors and	matching	mentorship	matching
	mentees	algorithms	experiences	algorithms

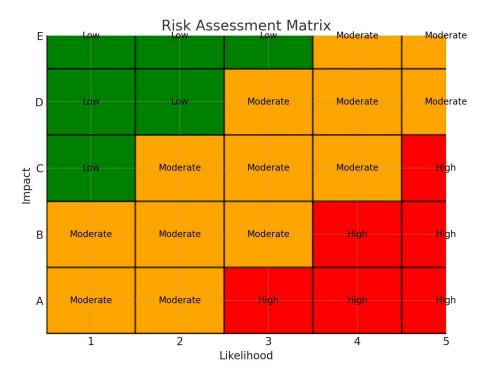
13. Resource Repository	Outdated resources	Lack of regular updates	Reduced usefulness of resources	Schedule regular updates and reviews
14. Community Engagement	Low community participation	Ineffective community management	Reduced peer support	Enhance community management strategies
15. Event Coordination	Poorly organized events	Lack of coordination among stakeholders	Low attendance and engagement	Improve event planning and coordination
16. Accessibility	Non-complian ce with accessibility standards	Lack of awareness and training	Exclusion of some user groups	Ensure compliance with accessibility standards
17. Scalability	Inability to handle increased load	Insufficient planning for growth	Platform crashes and user dissatisfaction	Plan for scalability from the outset
18. Reliability & Availability	Platform downtime	Poor system architecture and maintenance	Interrupted access for users	Implement robust system architecture and regular maintenance
19. User Feedback and Improvement	Ignored user feedback	Ineffective feedback loops	Reduced platform effectiveness	Establish effective feedback loops
20. Communicatio n	Poor communicatio n between team members	Lack of communicatio n protocols	Project delays and misunderstandi ngs	Implement clear communicatio n protocols

Risk identification involves recognizing potential risks that could affect the project's objectives. The following are some identified risks for this project in this Table.

## 6.2 Risk Assessment

Risk assessment evaluates the likelihood and potential impact of each identified risk. This process helps prioritize risks and focus on those that could significantly affect the project. Based on the assessment, risks are categorized into high, medium, and low priority levels. High-priority risks require immediate attention and robust

mitigation strategies. Risks are then categorized as Low, Moderate or High depending on their Likelihood and Consequence scores, as shown in Table 2.



# 6.3 Risk Response and Contingency Plan

The Project Manager has evaluated and prioritized all identified risks. The most probable and impactful risks are integrated into the project schedule for timely mitigation. Upon project completion, the PM will review each risk and assess the risk management process. This analysis will identify areas for improvement to be included in the lessons learned for future projects.

# 6.4 Risk Register Table

Risk Category	an ID	Risk Statement	Scope	Impact - Quality	Impact - Schedule	Cost	d (Before)		ion	Mitigation	d (After)	Score (After)	(After)	Contingency	Action By
Technical Risks	1	Project purpose and scope not well- defined.	3	3	3 2		2 C	3	Moderate	Define project scope clearly and communicate effectively.	D	2	Low	Communicate with project sponsor to redefine project scope if necessary.	Project Sponse
Fechnical Risks	2	Project design and deliverables definition is incomplete.	3	5	3 2		2 C	3	Moderate	Conduct detailed design workshops and define deliverables clearly.	D	2	Low	Revisit design workshops to refine project deliverables.	Project Spons
Security Risks	3	Data breach due to inadequate security measures.	3	5	3 3		3 B	4	High	Implement robust security measures and conduct regular audits.	С	3	Moderate	Conduct security audits and improve measures as needed.	Project Manager
Compliance Risks	4	Regulatory non- compliance due to lack of awareness.	3		3 2		3 B	4	High	Ensure regular compliance audits and provide training.	С	3	Moderate	Reassess compliance strategies regularly.	Project Manager
Stakeholder Engagement Risks	5	Low stakeholder engagement.	2	1	2 2		2 C	3	Moderate	Enhance stakeholder communication strategies.	D	2	Low	Revisit stakeholder engagement plans.	Project Manager
User Adoption Risks	6	Low platform adoption due to poor user interface design.	3		3 3		2 B	4	High	Conduct user experience research and testing.	С	3	Moderate	Conduct additional user experience testing.	Project Manager
Equipment & Machines	7	Technical failures due to poor maintenance.	2	3	3 3		2 B	3	Moderate	Regular maintenance and having backup equipment.	С	3	Moderate	Contact supplier for spare parts, and ensure backup equipment availability.	Project Manager
Training and Support	8	Inadequate training materials due to insufficient resources.	2	2	2 2		2 C	3	Moderate	Develop comprehensive training materials.	D	2	Low	Update training materials regularly.	Project Manager
Data Management	9	Data loss due to poor data management practices.	3		3 2		3 C	3	Moderate	Implement data backup and recovery solutions.	D	2	Low	Schedule regular data backups.	Project Manager
Performance	10	Slow platform performance due to inadequate infrastructure.	3	3	3 2		2 C	3	Moderate	Invest in scalable infrastructure.	D	2	Low	Scale infrastructure as needed.	Project Manager
Feedback Mechanism	11	Ineffective feedback collection processes.	2	2	2 2		2 C	2	Moderate	Implement structured feedback collection processes.	D	2	Low	Review feedback processes and adjust accordingly.	Project Manager
Mentorship Program	12	Mismatch of mentors and mentees.	2	2	2 2		2 C	2	Moderate	Develop robust matching algorithms.	D	2	Low	Reassess matching algorithms periodically.	Project Manager
Resource Repository	13	Outdated resources due to lack of regular	2	2	2 2		2 C	2	Moderate	Schedule regular updates and reviews.	D	2	Low	Review and update resource repository regularly.	Project Manager
Community Engagement	14	Low community participation.	2	2	2 2		2 C	2	Moderate	Enhance community management strategies.	D	2	Low	Revisit community management strategies.	Project Manager
Event Coordination	15	Poorly organized events due to lack of coordination.	2	2	2 2		2 C	2	Moderate	Improve event planning and coordination.	D	2	Low	Improve event coordination processes.	Project Manager
Accessibility	16	Non-compliance with accessibility standards.	2	2	2 2		2 C	2	Moderate	Ensure compliance with accessibility standards.	D	2	Low	Regularly review accessibility compliance.	Project Manager
Scalability	17	Inability to handle increased load due to insufficient planning.	3	3	3 3		3 C	3	High	Plan for scalability from the outset.	D	3	Moderate	Assess scalability needs periodically.	Project Manager
Reliability & Availability	18	Platform downtime due to poor system architecture.	3		3 3		3 C	3	High	Implement robust system architecture and regular maintenance.	D	3	Moderate	Conduct regular maintenance and system audits.	Project Manager
User Feedback and Improvement	19	Ignored user feedback due to ineffective feedback loops.	2	2	2 2		2 C	2	Moderate	Establish effective feedback loops.	D	2	Low	Review feedback loops and improve if necessary.	Project Manager
Communication	20	Poor communication between team members	2	2	2 2		2 C	2	Moderate	Implement clear communication protocols.	D	2	Low	Ensure regular team communication updates	Project Manager

# 6.5 Monitoring and Controlling Risks

The Project Manager will monitor and review risks fortnightly at steering committee meetings with project sponsors to assess their status and the effectiveness of mitigation strategies. During fortnightly project team meetings, the PM will discuss current risks, provide updates to stakeholders, and ensure documentation of risk responses as risks approach. Mitigation strategies will be adjusted based on the evolving risk landscape and project progress. Effective risk management ensures the

successful delivery of the digital web platform, aligning with UNSW's commitment to supporting students from low socioeconomic backgrounds and advancing social impact. Once the project is completed, risks will be analyzed and included in the lessons learned knowledge base as appropriate. This ongoing process of monitoring risks throughout the project life will improve risk management for future projects.

# 6.6 Feedback of Response Cost and Time back into Budget / Schedule

The key is to integrate the costs and time for risk responses into the project's budget and schedule, which allows for the most effective management. The benefit of this approach is the ability to handle unexpected risks, ensuring the project can proceed smoothly within budget.

#### 6.6.1 Cost Feedback

- (1) Estimation and Allocation: The project team needs to estimate the costs of risk responses in advance and include these estimated costs in the final project budget. These funds cater to additional resources, equipment, and any other costs that may be demanded by both known and unknown risks.
- (2) Continuous Monitoring: These risk responses should have actual cost estimates, and these costs must be compared to the initial estimated costs throughout the project. These differences should be evaluated, and the project's budget in relation to the overall project cost should be adjusted so that it is within the overall project cost.

#### 6.6.2 Time Feedback

- (1) Schedule Adjustments: The duration of the risk response is then incorporated into the project schedule. Schedules that are used in planning particular activities and goals allow for the extra time that is needed to undertake the mitigation procedures.
- **(2) Regular Updates:** The behaviours of risk responses need to be updated more frequently to demonstrate the progress in the project schedule.

# 6.7 PMBOK Referenced PM Methods Used in Risk Plan – Discussion

- Risk Identification reference from PMBOK Chapter 11. 2 'Identify Risks':
   Potential risk is described by Failure Mode and Effect Analysis (FMEA), making sure that all potential risk is known.
- Risk Assessment borrowed from PMBOK Chapter 11. 3 'Perform qualitative risk analysis' and Chapter 11. 4 'Perform Quantitative Risk Analysis': Risks are evaluated by their probability of occurrence and their consequences; they are thereafter ranked as Low, Medium, or High to help in implementing the risk management strategy.
- Risk Response Planning reference from PMBOK Chapter 11.5 'Plan Risk Responses': The project manager adds prioritized risks to the project plan and controls when they should be addressed with response and contingency plans.
- Monitoring and Controlling Risks reference from PMBOK Chapter 11.7 'Monitor Risks': Risks are discussed by the Project Manager at least every two weeks to give updates and to make changes in the techniques being used to control risks.

# 7. Communications Management Plan

# 7.1 Project Information System Table

Project Information System Table								
Information	Sender	Recipient	Frequency	Method	Expected Outcome	Owner		
Project Status Report	Project Manager	Project Sponsor	Weekly	Email, Meeting	Keep sponsor updated on project progress, identify issues	Project Manager		
Task Updates	Team Members	Project Manager	Daily	Email, Dashboard	Ensure tasks are on track, identify potential delays	Team Members		
Risk Log	Risk Manager	Project Manager, Stakeholders	weekly	Shared Document	Mitigate risks proactively, update stakeholders	Risk Manager		
Stakeholder Feedback	Project Manager	Stakeholders	Monthly	Survey, Meeting	Gather feedback to improve project processes and engagement	Project Manager		
Budget Report	Finance Officer	Project Manager, Sponsor	Monthly	Email, Report	Ensure project stays within budget, financial transparency	Finance Officer		
Change Requests	Stakeholders	Change Control Board	As needed	Form, Meeting	Evaluate and approve/reject change requests	Change Control Board		
Milestone Review	Project Manager	Project Team, Sponsor	End of Phase	Meeting, Presentation	Review milestone achievements, plan next phas	Project Manager		
Training Materials	Training Coordinator	Team Members	As needed	Workshop, Documentation	Equip team with necessary skills and knowledge	Training Coordinato		

## 7.2 PMBOK Referenced PM Methods Used in Communications

## Discussion

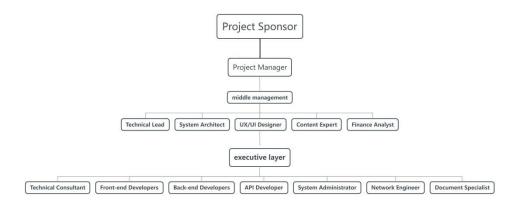
- Push Communication: Information need sending to specific people, who want to receive the information. This includes emails, reports, and messages.
- Pull Communication: Information that is provided to users at their discretion.

Including specific web, knowledge repositories and e-book.

- Meetings: Set regularly or flexible schedule which used to discuss project status, issues, risks, and check the entails of project process.
- Reports and Dashboards: Structured documents that provided some current information of project status, risks and other key data.
- Surveys and Questionnaires: Tools that used for collecting feedback and opinions from stakeholders regarding various aspects of the project.
- Workshops and Training Sessions: In order to discuss how to develop new skills, such as solve problems that have been discovered, or collect requirements from user.

## 8. Human Resource Plan

## 8.1 Project Organization Chart



# 8.2 Roles and Responsibilities Table

Role	Responsibilities	Skills/Qualifications	
Draiget Changer	Provides overall direction, funding, and resources	Senior management experience,	
Project Sponsor	Frovides overall direction, funding, and resources	decision-making	
Project Manager	Managas project acons, schodule, and budget	Project management certification,	
Project Manager	Manages project scope, schedule, and budget	leadership	
Technical Lead	Oversees all technical aspects of the project	Technical expertise, team leadership	
UX/UI Designer	Designs user-friendly interfaces and ensures	UI/UX design experience, knowledge of	
OX/OI Designer	accessibility	accessibility standards	
Content Expert	Collects and organizes educational resources	Subject matter expertise, research skills	
Finance Analyst	Manages project budget and financial planning	Financial analysis, budgeting, and	

		reporting skills
System Architect	Designs system architecture and database schema	System architecture, database design
System Architect	Designs system architecture and database schema	experience
Technical Consultant	Provides technical guidance and support	Technical expertise, problem-solving
Technical Consultant	Provides technical guidance and support	skills
Front and Davidoners	Develope the front and of the platform	Proficiency in HTML, CSS, JavaScript,
Front-end Developers	Develops the front-end of the platform	front-end frameworks
Book and Davolanera	Develope the healt and of the platform and ADIa	Server-side programming, database
Back-end Developers	Develops the back-end of the platform and APIs	management
API Developer	Designs and develops APIs	API design and development experience
Cyatam Administrator	Managas and configures conjugate and cloud conjugate	System administration, network
System Administrator	Manages and configures servers and cloud services	management
Notwork Engineer	Manages network configuration and maintenance	Networking skills, network security
Network Engineer	Manages network configuration and maintenance	knowledge
Document Specialist	Creates project documentation and reports	Technical writing, documentation skills

## 8.3 Position Descriptions

## **Position: Project Sponsor**

- **Purpose**: To provide overall direction, funding, and resources for the project.
- Key Responsibilities:
  - Provide strategic guidance and high-level decision-making.
  - Allocate necessary resources and budget.
  - o Resolve escalated issues and remove obstacles.
- Qualifications: Senior management experience, strong decision-making skills.

## **Position: Project Manager**

- Purpose: To oversee the successful completion of the project within the defined scope, time, and budget.
- Key Responsibilities:
  - Develop and maintain the project plan and schedule.
  - Coordinate project activities and resources.
  - Monitor project progress and performance, and adjust plans as needed.
  - o Communicate with stakeholders and manage expectations.

• **Qualifications**: PMP certification, 5+ years of project management experience, leadership skills.

## Position: UX/UI Designer

- **Purpose**: To design user-friendly interfaces and ensure accessibility.
- Key Responsibilities:
  - o Create wireframes, prototypes, and UI designs.
  - o Conduct user research and usability testing.
  - Ensure the platform complies with accessibility standards.
  - Collaborate with developers to implement designs.
- **Qualifications**: UI/UX design experience, knowledge of WCAG standards, proficiency in design tools (e.g., Adobe XD, Sketch).

## **Position: Content Expert**

- Purpose: To collect and organize educational resources.
- Key Responsibilities:
  - Research and curate relevant educational content.
  - Ensure content accuracy and quality.
  - o Update and maintain the content repository.
- Qualifications: Subject matter expertise, research skills, excellent organizational skills.

### **Position: System Architect**

- **Purpose**: To design the system architecture and database schema.
- Key Responsibilities:
  - o Develop and document system architecture and design.
  - Create database schemas and ensure data integrity.
  - Ensure system scalability, security, and performance.
  - o Collaborate with developers to implement the architecture.
- **Qualifications**: Experience in system architecture and database design, strong analytical skills, knowledge of software development methodologies.

#### **Position: Technical Consultant**

- Purpose: To provide technical guidance and support.
- Key Responsibilities:
  - Advise on technical decisions and solutions.
  - o Helps resolve technical issues.
  - o Keeps updated with the latest technologies and best practices.
  - o Provides the development team with technical expertise.
- **Qualifications**: Technical expertise, problem-solving skills, experience in consulting or technical advisory roles.

## **Position: Front-end Developer**

- Key Responsibilities:
  - o Turns UI designs into functional front-end code.
  - o Ensures cross-browser compatibility and responsive design.
  - o Optimize front-end performance.
  - o Collaborates with UX/UI designers and back-end developers.
- Qualifications: Proficient in HTML, CSS, JavaScript, and front-end frameworks (e.g., React, Angular).

### **Position: Back-end Developer**

- **Purpose:** To develop the back-end of the platform and APIs.
- Key Responsibilities:
  - o Develops server-side logic and integrates with front-end components.
  - Creates and maintains APIs.
  - o Ensures data security and integrity.
  - o Collaborates with front-end developers and system architects.
- **Qualifications**: Server-side programming skills, experience with databases and API development, and knowledge of security best practices.

## **Position: API Developer**

• **Purpose**: To design and develop APIs.

- Key Responsibilities:
  - Design and develop RESTful APIs.
  - o Ensure API security and documentation.
  - o Integrate APIs with front-end and back-end systems.
  - Monitor and optimize API performance.
- Qualifications: API design and development experience, knowledge of RESTful principles, proficiency in relevant programming languages.

## **Position: System Administrator**

- Purpose: To manage and configure servers and cloud services.
- Key Responsibilities:
  - Configures and maintains servers and cloud infrastructure.
  - Monitors system performance and ensures availability.
  - Implements security measures and backup solutions.
  - o Troubleshoots and resolves system issues.
- Qualifications: System administration experience, knowledge of server and cloud technologies, proficiency in scripting and automation tools.

#### **Position: Network Engineer**

- Purpose: To manage network configuration and maintenance.
- Key Responsibilities:
  - Designs and manages network configurations.
  - o Ensurse network security and performance.
  - o Troubleshoots and resolves network issues.
  - o Monitors network traffic and optimize performance.
- **Qualifications**: Networking skills, experience with network security, and knowledge of network protocols and hardware.

### **Position: Document Specialist**

- **Purpose**: To create and maintain project documentation.
- Key Responsibilities:
  - o Prepares user manuals, technical guides, and project reports.

- Ensures documentation is clear, concise, and up-to-date.
- o Collaborates with team members to gather information.
- Maintains documentation standards and templates.
- **Qualifications**: Technical writing skills, attention to detail, experience with documentation tools and software.

## 8.4 Project Staffing Strategy

#### 8.4.1 Recruitment Plan

## • Roles and Responsibilities:

### 1.HR Team

- Oversee the entire recruitment process
- Handle job postings, screenings, and initial interviews

## 2.Project Manager

- Participate in final interviews
- Involved in the selection of candidates

### • Recruitment Process:

## **Screening**

- Review applications
- Shortlist candidates based on qualifications

### **Interviewing**

- Conduct initial HR interviews
- Follow up with technical interviews

#### **Selection**

- Choose the best candidates
- Extend job offers

#### 8.4.2 Onboarding Plan

### **Roles and Responsibilities:**

- **HR Team**: Facilitate the onboarding process and provide necessary resources.
- Project Manager: Introduce new hires to the project and team members.

- Technical Lead: Provide technical orientation and assign initial tasks.
- 8.4.3 Training and Development Plan

## **Roles and Responsibilities:**

- Screening: Review applications and shortlist candidates based on qualifications.
- Interviewing: Conduct initial HR interviews followed by technical interviews.
- **Selection:** Choose the best candidates and extend job offers.
- 8.4.4 Performance Management Plan

## **Roles and Responsibilities:**

- **Project Manager:** Conduct regular performance reviews and provide feedback.
- Technical Lead: Monitor technical performance and provide guidance.

#### 8.4.5 Retention Plan

## **Roles and Responsibilities:**

- **HR Team:** Develop and implement retention strategies.
- **Project Manager:** Foster a positive team culture and address team concerns.

#### **Process:**

- **Compensation:** Offer competitive salaries and benefits packages.
- Career Development: Provide opportunities for career advancement and professional growth.
- Work-life Balance: Promotes balance between work and life through flexible working arrangements.
- Recognition: Establishes a recognition program to reward exceptional performance.

# 8.5 PMBOK Referenced PM Methods Used in HR Plan – Discussion

- Work Breakdown Structure (WBS): Helps identify all tasks and subtasks needed for the project so that roles and responsibilities can be precisely assigned.
- Responsibility Assignment Matrix (RAM): Clarifies the roles and

- responsibilities of team members, by assigning tasks to specific individuals or groups, which ensures accountability.
- RACI Chart (Responsible, Accountable, Consulted, Informed): Specifies who
  is responsible for each task, who is accountable, who needs to be consulted, and
  who should be informed, which helps clear communication and decision-making
  processes.
- Organizational Breakdown Structure (OBS): Shows the project team structure, helping to align project tasks with organizational departments or units.
- **Resource Histogram:** Shows the allocation of resources over time, allowing for effective planning and balancing of workload among team members.
- Staffing Management Plan: Explains how and when project team members will be acquired, trained, and released, ensuring the project has the right skills at the right times.
- Training Needs Analysis: Identifies gaps in skills and knowledge among team members, allowing targeted training programs to enhance team capability.
- Team Building Activities: Improves collaboration and communication among project members.

## References

A Guide to the Project Management Body of Knowledge (PMBOK Guide): And, Agile Practice Guide (Project Management Institute, 6th edition., 2017)