## **2.1 RESOURCE ESTIMATION AND ITS COSTS**

Resource estimation is the process of predicting the types and quantities of resources required to complete a project successfully which include Skill Inventory, Need Inventory, Staff Task Allocation, Human Resource Allocation, Equipment and Materials, and other tangible or intangible assets necessary for project execution.

Resource estimation is a critical component of project planning and management, as it helps organizations allocate resources effectively, optimize resource utilization, and ensure that project objectives are met within budget and schedule constraints.

Noe, R. A., Hollenbeck, J. R., Gerhart, B., & Wright, P. M. (2019). Human resource management: Gaining a competitive advantage (11th ed.). McGraw-Hill Education.

### 2.1.1 IT SKILL INVENTORY

A skill inventory is a comprehensive repository of information about an individual’s professional capabilities/strengths/competencies, qualifications, experience, areas for professional development, and potential career opportunities which are commonly used in project management to access and match an individual’s skills and organizational needs.

Society for Human Resource Management. (2018). Developing a Skill Inventory: A Guide for HR Professionals. Retrieved from https://www.shrm.org/resourcesandtools/tools-and-samples/toolkits/pages/developingskillinventory.aspx

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **SKILLS** | | | | | | | | | | |
| **STAFF** | **Analysis** | **Programming** | **Systems Design** | **Implementation** | **Interviewing** | **Communication Skills** | **Report Writing** | **Documentation Skills** | **Leadership Skills** | **Testing** | **Algorithm Design** |
| Mr.Jayshil Singh | **B** | **A** | **P** | **A** | **B** | **P** | **B** | **P** | **A** | **B** | **A** |
| (Project Manager) |
| Mr. Yash Prasad | **A** | **P** | **B** | **P** | **P** | **A** | **B** | **P** | **A** | **P** | **A** |
| (Finance Manager) |
| Eng. Ryan Kumar | **P** | **B** | **B** | **B** | **A** | **P** | **A** | **A** | **B** | **B** | **B** |
| (NLP Software Engineer) |
| Mrs. Sashtika Prasad | **A** | **P** | **A** | **A** | **B** | **B** | **B** | **B** | **P** | **P** | **B** |
| (Risk and Change Management Analyst) |
| Eng. Avichal Nath | **P** | **B** | **B** | **B** | **P** | **P** | **P** | **A** | **B** | **A** | **B** |
| (Quality Assurance  Engineer) |

Caption: *This table below shows the skills inventory and match of individual skill contribution in this project (number) Chatbot for Fiji Eats PTE Ltd.*

**KEY:**

A – Advance Qualification *(More than 5 years’ experience)*

P – Professional Qualification *(graduate qualification with supporting professional developments)*

B – Basic Qualification *(Fresh Graduate)*

### 2.1.2 NEED INVENTORY

It is a systematic process that is used to identify and evaluate the need to develop a Chatbot for Fiji Eats PTE Ltd. This process helps in developing an understanding of strategies, interventions, and resource allocation to address at each stage (conceptualization (stage 1), planning (stage 2), execution (stage 3), and termination (stage 4) processes) of Chatbot development.

**Stage 1: Conceptualisation Phase**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **WBS**  **Code** | **Activity Name** | **Skills** | | | | | |
| **Host Evaluation and Selection** | **NLP Algorithms Assessment** | **ChatBot’s Requirements gathering** | **Project Charter Development** | **Identification & Engagement of stakeholders** | **Project Commencement Meeting** |
| **1.0** | **Chatbot Implementation System** | | | | | | |
| **1.1** | **Conceptualization Phase** | | | | | | |
| 1.1.1 | Deliverable: Meeting Agenda and Schedule |  |  |  |  | √ | √ |
| 1.1.2 | Deliverable: Stakeholders List and Engagement Plan | √ |  |  |  | √ |  |
| 1.1.3 | Deliverable: Approved Project Charter |  | √ | √ | √ |  | √ |
| 1.1.4 | Deliverable: Feature Requirement Documents | √ |  | √ | √ |  |  |
| 1.1.5 | Deliverable: Technology Assessment Report |  | √ | √ | √ |  |  |
| 1.1.6 | Deliverable: Platform Comparison Report | √ | √ |  | √ |  |  |

**Caption:** *The conceptualization phase is shown in the table along with the resource*

*Allocation at this stage.*

**Key:**

√ - Indicates the Requirements

**Stage 2: Planning Phase**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **WBS**  **Code** | **Activity Name** | **Skills** | | | | | |
| **Quality Management Plan** | **Change Management Plan** | **Risk Management Planning** | **Budget Planning and Cost Estimation** | **Resource Allocation and Management** | **Project Schedule Plan Development** |
|  | **Chatbot Implementation System** | | | | | | |
| **1.2** | **Planning Phase** | | | | | | |
| 1.2.1 | Deliverable: Project Schedule and Timeline | √ |  | √ |  |  | √ |
| 1.2.2 | Deliverable: Resource Allocation Timeline | √ |  | √ |  | √ |  |
| 1.2.3 | Deliverable: Budget Planning and Cost Estimation | √ |  | √ | √ |  |  |
| 1.2.4 | Deliverable: Risk Management Planning | √ |  | √ |  |  |  |
| 1.2.5 | Deliverable: Plans Outlining how Changes will Cater and accommodate for quality management plans | √ | √ | √ |  |  |  |
| 1.2.6 | Deliverable: Predefined Quality Standards and Criterions | √ |  | √ |  |  |  |

**Caption:** *The Planning phase is shown in the table along with the resource*

*Allocation at this stage.*

**Key:**

√ - Indicates the Requirements

**Stage 3: Execution Phase**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **WBS**  **Code** | **Activity Name** | **Skills** | | | | | | | | | | |
| **User Acceptance Testing (UAT)** | **UI /UX Testing and Ptimization** | **Integration Testing with Backend Systems** | **Unit Testing of Chatbot Features** | **Testing Environment Setup** | **UI/UX Design and Development** | **Backend system integration** | **Database Setup and Confrigration** | **AI Algorithm Development** | **Fronted Implementation** | **Chatbot system prototype Development** |
|  | **Chatbot Implementation System** | | | | | | | | | | | |
| **1.3** | **Execution Phase** | | | | | | | | | | | |
| 1.3.1 | Deliverable: Chatbot Prototype |  |  |  | √ |  |  |  |  |  |  | √ |
| 1.3.2 | Deliverable: Functional Frontend Interface |  |  |  | √ |  |  |  |  |  | √ |  |
| 1.3.3 | Deliverable: Developed AI Algorithm |  |  |  |  | √ | √ | √ | √ | √ |  | √ |
| 1.3.4 | Deliverable: Configured Database system |  |  |  |  |  | √ | √ | √ | √ |  |  |
| 1.3.5 | Deliverable: Integrated Backend System |  | √ |  |  | √ | √ | √ |  |  |  |  |
| 1.3.6 | Deliverable: User interface design | √ |  |  | √ |  | √ |  |  |  |  | √ |
| 1.3.7 | Deliverable: Testing Environment Ready | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 1.3.8 | Deliverable: Unit Testing Result Report | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 1.3.9 | Deliverable: Integration Testing Result Report | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 1.3.10 | Deliverable: UI/UX Testing Report | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| 1.3.11 | Deliverable: UAT Feedback and Acceptance Report | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |

**Caption:** *The Execution phase is shown in the table along with the resource*

*Allocation at this stage.*

**Key:**

√ - Indicates the Requirements

**Stage 3: Termination Phase**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **WBS**  **Code** | **Activity Name** | **Skills** | | | | | | | | | | |
| **Checklist** | **Memorandum of Understanding** | **Documentation and Knowledge Transfer** | **Final Release of Chatbot** | **Review and Evaluation** | **Recommendation and Planning** | **Update Chatbot System** | **Performance Montering Setup** | **Training Fiji Eat Administration** | **Deployed Chatbot on Website and App** | **Deployed Plan** |
|  | **Chatbot Implementation System** | | | | | | | | | | | |
| **1.4** | **Termination Phase** | | | | | | | | | | | |
| 1.4.1 | Deployment planning and Preparation of Fiji Eats PTE Ltd Chatbot |  |  |  |  |  |  |  |  |  |  | √ |
| 1.4.2 | Rollout of Chatbot version on Websites and Mobile Apps |  |  |  |  |  |  |  |  |  | √ |  |
| 1.4.3 | Conducting Professional Development for Fiji Eats PTE Ltd Administration |  |  |  |  |  |  |  |  | √ |  |  |
| 1.4.4 | Performance Monitoring Tools and Reporting |  |  |  |  |  |  |  | √ |  |  |  |
| 1.4.5 | Bug Fixing and updating( Post Beta Testing Review) |  |  |  |  |  |  | √ |  |  |  |  |
| 1.4.6 | Continuous Improvement Initiatives and Support and maintenance |  |  |  |  |  | √ |  |  |  |  |  |
| 1.4.7 | Overall Project Preview |  |  |  |  | √ |  |  |  |  |  |  |
| 1.4.8 | Release Chatbot System on the Platform |  |  |  | √ |  |  |  |  |  |  |  |
| 1.4.9 | Compilation and project completion Document for Fiji Eats PTE Ltd |  |  | √ |  |  |  |  |  |  |  |  |
| 1.4.10 | Client Acceptance and Signing off |  | √ |  |  |  |  |  |  |  |  |  |
| 1.4.11 | Project Closure activities and final Checklist | √ |  |  |  |  |  |  |  |  |  |  |

**Key:**

√ - Indicates the Requirements

### 2.1.3 STAFF JOB DESCRIPTION

This documentation serves as a critical tool in project management, ensuring clarity of details about the job title, duties, reporting relationships, required skills and qualifications, and performance expectations hence facilitating effective team coordination in successfully achieving the objective of the project.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **WBS CODE** | **Activity Name** | **Staff** | | | | |
| Eng. Avichal Nath | Mrs Sashtika Prasad | Eng.Ryan Kumar | Mr. Yash Prasad | Mr. Jayshil Singh |
| **1.0** | **Chatbot** | | | | | |
| **1.1** | **Conceptualization Phase** | | | | | |
| 1.1.1 | Deliverable: Meeting Agenda and Schedule | √ | √ | √ | √ | √ |
| 1.1.2 | Deliverable: Stakeholders List and Engagement Plan | √ | √ | √ | √ | √ |
| 1.1.3 | Deliverable: Approved Project Charter | √ | √ | √ | √ | √ |
| 1.1.4 | Deliverable: Feature Requirement Documents | √ | √ | √ | √ | √ |
| 1.1.5 | Deliverable: Technology Assessment Report | √ | √ | √ | √ | √ |
| 1.1.6 | Deliverable: Platform Comparison Report | √ | √ | √ | √ | √ |
| **1.2** | **Planning Phase** | | | | | |
| 1.2.1 | Deliverable: Project Schedule and Timeline | √ |  |  |  |  |
| 1.2.2 | Deliverable: Resource Allocation Timeline | √ |  |  |  |  |
| 1.2.3 | Deliverable: Budget Planning and Cost Estimation | √ | v |  |  |  |
| 1.2.4 | Deliverable: Risk Management Planning |  |  |  | √ |  |
| 1.2.5 | Deliverable: Plans Outlining how Changes will Cater and accommodate for quality management plans | √ |  |  |  | √ |
| 1.2.6 | Deliverable: Predefined Quality Standards and Criterions | √ |  |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **1.3** | **Execution Phase** | | | | | |
| 1.3.1 | Deliverable: Chatbot Prototype |  |  | √ |  |  |
| 1.3.2 | Deliverable: Functional Frontend Interface |  |  | √ |  |  |
| 1.3.3 | Deliverable: Developed AI Algorithm |  |  | √ |  |  |
| 1.3.4 | Deliverable: Configured Database system |  |  | √ |  |  |
| 1.3.5 | Deliverable: Integrated Backend System |  |  | √ |  |  |
| 1.3.6 | Deliverable: User interface design |  |  | √ |  |  |
| 1.3.7 | Deliverable: Testing Environment Ready | √ |  | √ |  | √ |
| 1.3.8 | Deliverable: Unit Testing Result Report | √ |  | √ |  |  |
| 1.3.9 | Deliverable: Integration Testing Result Report | √ |  | √ |  |  |
| 1.3.10 | Deliverable: UI/UX Testing Report |  |  | √ |  | √ |
| 1.3.11 | Deliverable: UAT Feedback and Acceptance Report | √ |  |  |  | √ |
| **1.4** | **Termination Phase** | | | | | |
| 1.4.1 | Deliverable: Deployment planning and Preparation of Fiji Eats PTE Ltd Chatbot |  |  | √ |  |  |
| 1.4.2 | Deliverable: Rollout of Chatbot version on Websites and Mobile Apps |  |  | √ |  |  |
| 1.4.3 | Deliverable: Conducting Professional Development for Fiji Eats PTE Ltd Administration | √ |  | √ |  | √ |
| 1.4.4 | Deliverable: Performance Monitoring Tools and Reporting |  |  |  |  | √ |
| 1.4.5 | Deliverable: Bug Fixing and updating( Post Beta Testing Review) | √ |  | √ |  |  |
| 1.4.6 | Deliverable: Continuous Improvement Initiatives and Support and maintenance |  |  |  | √ | √ |
| 1.4.7 | Deliverable: Overall Project Preview | √ |  |  |  |  |
| 1.4.8 | Deliverable: Release Chatbot System on the Platform |  |  | √ |  |  |
| 1.4.9 | Deliverable: Compilation and project completion Document for Fiji Eats PTE Ltd |  |  |  |  | √ |
| 1.4.10 | Deliverable: Client Acceptance and Signing off | √ |  |  |  |  |
| 1.4.11 | Deliverable: Project Closure activities and final Checklist | √ |  |  |  |  |

**Caption:** *The table shows the staff engagement in the implementation of Chatbot for Fiji Eats PTE Ltd.*

***Key:***

√ - Represent the Staff Assignment towards the development of a New Chatbot for Fiji Eats PTE Ltd

### 2.1.4 HUMAN RESOURCE ALLOCATION/ ESTIMATION

The key to productivity is finding the correct person or employees for a particular project and cutting costs where it makes sense on the profitable job site. This also helps to reduce risk factors like a lack of resources or filling in gaps.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Activities** | | **Duration (Hours)** | **Staff** | | Team | | | | | | | |
| MR. JAYSHIL SINGH | MR. YASH PRASAD | | ENG. RYAN KUMAR | | MR. SASHTIKA PRASAD | ENG. AVICHAL NATH | |
| **Position** | | PROJECT MANAGER | FINANCE MANAGER | | NLP SOFTWARE ENGINEER | | RISK AND CHANGE MANAGEMENT ANALYST | QUALITY ASSURANCE ENGINEER | |
| **Pay Rate**  **($/hour)** | | $ 45.00 | $ 25.00 | | $105.00 | | $ 10.50 | $50.00 | |
| **1.0** | **Chatbot** | | | | | | | | | | | | |
| **1.1** | **Conceptualization Phase** | | | | | | | | | | | | |
| 1.1.1 | Deliverable: Meeting Agenda and Schedule | | 15 |  | | $ 675.00 | **$ 375.00** | | $ 1575.00 | | $ 157.50 | $750.00 | |
| 1.1.2 | Deliverable: Stakeholders List and Engagement Plan | | 15 | $ 675.00 | **$ 375.00** | | $ 1575.00 | | $ 157.50 | $750.00 | |
| 1.1.3 | Deliverable: Approved Project Charter | | 15 | $ 675.00 | **$ 375.00** | | $ 1575.00 | | $ 157.50 | $750.00 | |
| 1.1.4 | Deliverable: Feature Requirement Documents | | 15 | $ 675.00 | **$ 375.00** | | $ 1575.00 | | $ 157.50 | $750.00 | |
| 1.1.5 | Deliverable: Technology Assessment Report | | 15 | $ 675.00 | **$ 375.00** | | $ 1575.00 | | $ 157.50 | $750.00 | |
| 1.1.6 | Deliverable: Platform Comparison Report | | 15 | $ 675.00 | **$ 375.00** | | $ 1575.00 | | $ 157.50 | $750.00 | |
| **1.2** | **Planning Phase** | | |  | | | | | | | |
| 1.2.1 | Deliverable: Project Schedule and Timeline | | 3 | $135.00 |  | |  | |  |  | |
| 1.2.2 | Deliverable: Resource Allocation Timeline | | 14 | $630.00 |  | |  | |  |  | |
| 1.2.3 | Deliverable: Budget Planning and Cost Estimation | | 14 | $630.00 | **$350.00** | |  | |  |  | |
| 1.2.4 | Deliverable: Risk Management Planning | | 10 |  |  | |  | | $105.00 |  | |
| 1.2.5 | Deliverable: Plans Outlining how Changes will Cater and accommodate for quality management plans | | 5 | $225.00 |  | |  | |  | $250.00 | |
| 1.2.6 | Deliverable: Predefined Quality Standards and Criterions | | 2 | $90.00 |  | |  | |  |  | |
| **1.3** | **Execution Phase** | | |  | | | | | | | |
| 1.3.1 | | Deliverable: Chatbot Prototype | 2 |  |  | |  | $210.00 | |  | | |  |
| 1.3.2 | | Deliverable: Functional Frontend Interface | 6 |  | |  | $630.00 | |  | | |  |
| 1.3.3 | | Deliverable: Developed AI Algorithm | 4 |  | |  | $420.00 | |  | | |  |
| 1.3.4 | | Deliverable: Configured Database system | 5 |  | |  | $525.00 | |  | | |  |
| 1.3.5 | | Deliverable: Integrated Backend System | 21 |  | |  | $2,205.00 | |  | | |  |
| 1.3.6 | | Deliverable: User interface design | 59 |  | |  | $6,195.00 | |  | | |  |
| 1.3.7 | | Deliverable: Testing Environment Ready | 27 | $1,215.00 | |  | $2,835.00 | |  | | | **$1,350.00** |
| 1.3.8 | | Deliverable: Unit Testing Result Report | 8 | **$360.00** | |  | $840.00 | |  | | |  |
| 1.3.9 | | Deliverable: Integration Testing Result Report | 5 | **$225.00** | |  | $525.00 | |  | | |  |
| 1.3.10 | | Deliverable: UI/UX Testing Report | 4 |  | |  | $420.00 | |  | | | $200.00 |
| 1.3.11 | | Deliverable: UAT Feedback and Acceptance Report | 5 | $225.00 | |  |  | |  | | | $250.00 |
| **1.4** | **Termination Phase** | | |  | |  | | | | | | | |
| 1.4.1 | Deliverable: Deployment planning and Preparation of Fiji Eats PTE Ltd Chatbot | | 8 |  |  | | $840.00 | |  |  | |
| 1.4.2 | Deliverable: Rollout of Chatbot version on Websites and Mobile Apps | | 3 |  |  | | $ 315.00 | |  |  | |
| 1.4.3 | Deliverable: Conducting Professional Development for Fiji Eats PTE Ltd Administration | | 5 | $225.00 |  | | $525.00 | |  | **$250.00** | |
| 1.4.4 | Deliverable: Performance Monitoring Tools and Reporting | | 4 |  |  | |  | |  | $$200.00 | |
| 1.4.5 | Deliverable: Bug Fixing and updating( Post Beta Testing Review) | | 2 | $90.00 |  | | $210.00 | |  |  | |
| 1.4.6 | Deliverable: Continuous Improvement Initiatives and Support and maintenance | | 8 |  |  | |  | | $84.00 | $400.00 | |
| 1.4.7 | Deliverable: Overall Project Preview | | 8 | $360.00 |  | |  | |  |  | |
| 1.4.8 | Deliverable: Release Chatbot System on the Platform | | 5 |  |  | | $525.00 | |  |  | |
| 1.4.9 | Deliverable: Compilation and project completion Document for Fiji Eats PTE Ltd | | 8 |  |  | |  | |  | $400.00 | |
| 1.4.10 | Deliverable: Client Acceptance and Signing off | | 5 | $225.00 | **$125.00** | |  | |  |  | |
| 1.4.11 | Deliverable: Project Closure activities and final Checklist | | 2 | $90.00 | **$50.00** | |  | |  |  | |
| **Sub-Total** | | | | **$8,775.00** | **$2,775.00** | | **$26,670.00** | | **$1,134.00** | **$7,800.00** | |
| **TOTAL** | | | **$ 46,629.00** | | | | | | | | | | |

**Caption:** *The table shows the breakdown of cost for each specification in the Chatbot development for Fiji Eats PTE Ltd*

### 2.1.5 EQUIPMENT, MONEY, AND MATERIAL ESTIMATION

Project management involves allocating equipment, funds, and materials in a way that ensures all resources are available and used as efficiently as possible to meet project objectives and output quality.

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **WBS CODE** | **Activity Name** | **Duration (Hours)** | Facility | | | Equipment | | | Material | | | |
| Office Space | Conference Room | **Facility Cost ($)** | Computers & Software | Printer | **Equipment Cost ($)** | Stationary | Whiteboard | References, Internet | **Material Cost ($)** |
| **1.0** | **Chatbot** | | | | | | | | | | | |
| **1.1** | **Conceptualization Phase** | | | | | | | | | | | |
| 1.1.1 | Deliverable: Meeting Agenda and Schedule |  | ▲ | ▲ | 122 |  |  |  | ▲ | ▲ | ▲ | 16 |
| 1.1.2 | Deliverable: Stakeholders List and Engagement Plan |  | ▲ |  | 149 |  | ▲ | 127 | ▲ |  | ▲ | 20 |
| 1.1.3 | Deliverable: Approved Project Charter |  |  |  |  |  | ▲ | 59 | ▲ |  |  | 9 |
| 1.1.4 | Deliverable: Feature Requirement Documents |  |  |  |  | ▲ | ▲ | 22 |  |  |  |  |
| 1.1.5 | Deliverable: Technology Assessment Report |  | ▲ |  | 52 | ▲ |  | 44 | ▲ | ▲ |  | 7 |
| 1.1.6 | Deliverable: Platform Comparison Report |  |  |  |  | ▲ | ▲ | 52 |  |  |  |  |
| **1.2** | **Planning Phase** | | | | | | | | | | | |
| 1.2.1 | Deliverable: Project Schedule and Timeline |  |  | ▲ | 35 |  |  |  | ▲ | ▲ |  | 2 |
| 1.2.2 | Deliverable: Resource Allocation Timeline |  |  |  |  | ▲ |  | 29 | ▲ | ▲ | ▲ | 5 |
| 1.2.3 | Deliverable: Budget Planning and Cost Estimation |  | ▲ |  | 79 | ▲ |  | 67 |  |  |  |  |
| 1.2.4 | Deliverable: Risk Management Planning |  | ▲ |  | 97 | ▲ |  | 82 |  |  |  |  |
| 1.2.5 | Deliverable: Plans Outlining how Changes will Cater and accommodate for quality management plans |  | ▲ |  | 44 | ▲ | ▲ | 37 |  |  |  |  |
| 1.2.6 | Deliverable: Predefined Quality Standards and Criterions |  | ▲ |  | 79 | ▲ | ▲ | 67 | ▲ | ▲ | ▲ | 11 |
| **1.3** | **Execution Phase** | | | | | | | | | | | |
| 1.3.1 | Deliverable: Chatbot Prototype |  |  | ▲ | 26 | ▲ | ▲ | 14 | ▲ | ▲ | ▲ | 2 |
| 1.3.2 | Deliverable: Functional Frontend Interface |  |  |  |  | ▲ |  | 22 |  |  | ▲ | 4 |
| 1.3.3 | Deliverable: Developed AI Algorithm |  |  | ▲ | 35 | ▲ | ▲ | 29 | ▲ | ▲ | ▲ | 5 |
| 1.3.4 | Deliverable: Configured Database system |  |  |  |  | ▲ |  | 37 | ▲ |  |  | 6 |
| 1.3.5 | Deliverable: Integrated Backend System |  | ▲ |  | 508 | ▲ |  | 308 |  |  |  |  |
| 1.3.6 | Deliverable: User interface design |  | ▲ |  | 368 | ▲ |  | 288 |  |  | ▲ | 50 |
| 1.3.7 | Deliverable: Testing Environment Ready |  | ▲ |  | 298 | ▲ |  | 253 |  |  | ▲ | 40 |
| 1.3.8 | Deliverable: Unit Testing Result Report |  | ▲ |  | 237 | ▲ |  | 201 |  |  |  |  |
| 1.3.9 | Deliverable: Integration Testing Result Report |  |  | ▲ | 130 | ▲ |  | 119 |  |  | ▲ | 19 |
| 1.3.10 | Deliverable: UI/UX Testing Report |  |  | ▲ | 62 | ▲ |  | 52 |  |  | ▲ | 8 |
| 1.3.11 | Deliverable: UAT Feedback and Acceptance Report |  |  | ▲ | 97 | ▲ |  | 82 | ▲ | ▲ |  | 13 |
| **1.4** | **Termination Phase** | | | | | | | | | | | |
| 1.4.1 | Deliverable: Deployment planning and Preparation of Fiji Eats PTE Ltd Chatbot |  | ▲ |  | 60 | ▲ | ▲ | 59 |  |  | ▲ | 7 |
| 1.4.2 | Deliverable: Rollout of Chatbot version on Websites and Mobile Apps |  | ▲ |  | 27 | ▲ | ▲ | 22 |  |  | ▲ | 4 |
| 1.4.3 | Deliverable: Conducting Professional Development for Fiji Eats PTE Ltd Administration |  | ▲ |  | 27 | ▲ | ▲ | 22 |  |  | ▲ | 4 |
| 1.4.4 | Deliverable: Performance Monitoring Tools and Reporting |  |  | ▲ | 35 | ▲ | ▲ | 29 |  |  | ▲ | 6 |
| 1.4.5 | Deliverable: Bug Fixing and updating( Post Beta Testing Review) |  | ▲ |  | 17 | ▲ | ▲ | 15 |  |  | ▲ | 6 |
| 1.4.6 | Deliverable: Continuous Improvement Initiatives and Support and maintenance |  |  | ▲ | 105 | ▲ |  | 375 |  | ▲ | ▲ | 6 |
| 1.4.7 | Deliverable: Overall Project Preview |  |  | ▲ | 566 | ▲ |  | 250 |  | ▲ | ▲ | 6 |
| 1.4.8 | Deliverable: Release Chatbot System on the Platform |  |  | ▲ | 2000 | ▲ |  | 989 |  |  | ▲ | 6 |
| 1.4.9 | Deliverable: Compilation and project completion Document for Fiji Eats PTE Ltd |  | ▲ |  | 35 | ▲ | ▲ | 35 | ▲ |  | ▲ | 6 |
| 1.4.10 | Deliverable: Client Acceptance and Signing off |  |  | ▲ | 35 |  | ▲ | 35 | ▲ |  | ▲ | 2 |
| 1.4.11 | Deliverable: Project Closure activities and final Checklist |  | ▲ |  | 5 | ▲ | ▲ | 5 | ▲ |  | ▲ | 2 |
| 1.4.1 | Deliverable: Deployment planning and Preparation of Fiji Eats PTE Ltd Chatbot |  |  | ▲ | 150 | ▲ |  | 2500 |  |  | ▲ | 6 |
| **Sub-Total** | |  | **$ 5,480.00** | | | **$ 6,327** | | | **$ 278.00** | | | |
| **TOTAL** | | **$** |  | | |  | | | **12,085.00** | | | |

**Caption:** This table shows the breakdown of resources according to specifications. Firstly, *Equipment Allocation: This involves planning how to use the equipment, keeping it in excellent operating order, and making sure it's available when needed for the right stage of development. Secondly, Money Allocation: This entails organizing and managing the project budget to guarantee that all tasks can be completed without going over the allocated funds. Finally, Material Allocation: This involves making certain that resources are used effectively, stored correctly, and accessible when needed.*