**Project Schedule &**

**Work Breakdown Structure (WBS)**

**New Solutions Enterprise New Product Launch**

**New Solutions Enterprise**

**555 Numbers Way**

**Helena, MT Zip 59601**

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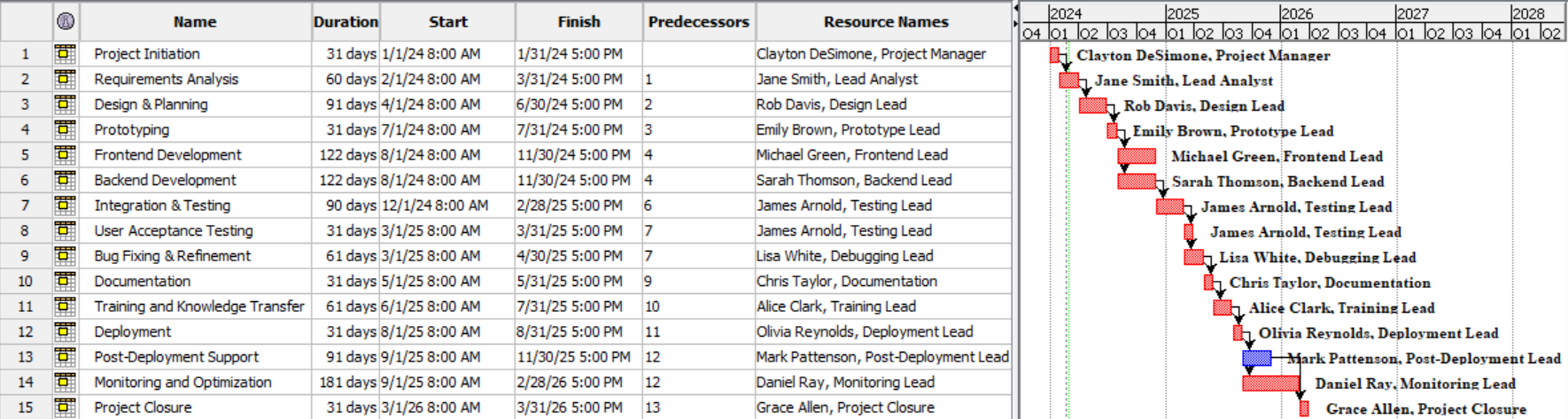
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# 

# Introduction

The Project Schedule and Work Breakdown Structure presented here represent all the work required to complete this project. The Project Schedule is represented with a Gantt Chart and PERT Diagram.

# Gantt Chart

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# PERT Diagram

**A diagram of a flowchart

Description automatically generated**

# Work Breakdown Structure

Data Analytics Platform

1

Project Initiation

1.1

Requirements Analysis

1.2

Design & Planning

1.3

Prototyping

1.4

Gather User Requirements

1.2.1

Frontend Development

1.5

Define Project Objectives

1.1.1

Identify Stakeholders

1.1.2

Develop Project Charter

1.1.3

Obtain Project Charter Approval 1.1.4

Kickoff Meeting 1.1.5

Analyze Requirements

1.2.2

Define Functional Requirements

1.2.3

Document Requirements

1.2.4

Create System Architecture

1.3.1

Develop Detailed Design Specifications

1.3.2

Define Project Plan 1.3.3

Resource Allocation

1.3.4

Risk Management Plan

1.3.5

Build Prototype 1.4.1

Test Prototype 1.4.2

Gather Feedback

1.4.3

Design User Interface

1.5.1

Develop Frontend Components

1.5.2

Conduct Frontend Testing

1.5.3

Design Database Schema

1.6.1

Develop Backend Logic

1.6.2

Implement Data Integration

1.6.3

Perform Backend Testing

1.6.4

Backend Development 1.6

Data Analytics Platform

1

Integration & Testing

1.7

User Acceptance Testing

1.8

Bug Fixing & Refinement

1.9

Documentation

1.10

Prepare Test Cases 1.8.1

Training and Knowledge Transfer

1.11

Integrate Frontend and Backend Systems

1.7.1

Conduct System Testing

1.7.2

Perform Integration Testing 1.7.3

Execute Test Cases 1.8.2

Gather User Feedback

1.8.3

Identify and Prioritize Bugs 1.9.1

Fix Bugs

1.9.2

Retest Fixed Issues 1.9.3

Create User Manuals

1.10.1

Develop Technical Documentation 1.10.2

Write Installation Guides

1.10.3

Develop Training Materials

1.11.1

Conduct User Training Sessions 1.11.2

Transfer Knowledge to Support Team 1.11.3

Plan Deployment Strategy

1.12.1

Execute Deployment Plan 1.12.2

Verify System Availability

1.12.3

Deployment

1.12

**WBS Dictionary**

Data Analytics Platform

1

Post-Deployment Support

1.13

Monitoring and Optimization

1.14

Project Closure

1.15

Provide User Support

1.13.1

Address Post-Deployment Issues 1.13.2

Monitor System Performance

1.13.3

Monitor System Usage

1.14.1

Identify Optimization Opportunities

1.14.2

Implement Performance Improvements 1.14.3

Conduct Project Review

1.15.1

Archive Project Documentation

1.15.2

Release Project Resources

1.15.3

Celebrate Project Success

1.15.4

| WBS Code | Element Name | Definition |
| --- | --- | --- |
| 1 | Data Analytics Platform | All work related to the development and implementation of a new AI-integrated data analytics platform. |
| 1.1 | Project Initiation | Objectives are defined, stakeholders are identified, the project charter is developed, approval for the project charter is obtained, and a kickoff meeting is conducted. |
| 1.1.1 | Define Project Objectives | Clearly articulate the goals and objectives of the data analytics platform project, including the integration of third-party AI tools. |
| 1.1.2 | Identify Stakeholders | Identify all individuals and entities who will be affected by or have an interest in the project and analyze their needs and expectations. |
| 1.1.3 | Develop Project Charter | Create a formal document that outlines the project's objectives, scope, stakeholders, risks, assumptions, and constraints. |
| 1.1.4 | Obtain Project Charter Approval | Seek approval from key stakeholders, typically the project sponsor, for the project charter to authorize project initiation. |
| 1.1.5 | Kickoff Meeting | Conduct a meeting involving the project manager, project team, and optionally the project sponsor to officially launch the project and align all stakeholders. |
| 1.2 | Requirements Analysis | User requirements, including those related to the integration of the third-party AI tool, are gathered, analyzed, documented, and transformed into functional requirements for the data analytics platform. |
| 1.2.1 | Gather User Requirements | Collect and document the needs and expectations of the platform's end-users. Decide on specific AI vendor. |
| 1.2.2 | Analyze Requirements | Analyze gathered requirements to ensure they are clear, complete, and feasible. Ensure AI compatibility. |
| 1.2.3 | Define Functional Requirements | Translate user requirements into detailed functional specifications that describe the system's behavior and features. |
| 1.2.4 | Document Requirements | Document all gathered and analyzed requirements for reference throughout the project lifecycle. |
| 1.3 | Design & Planning | System architecture involving AI integration is designed, detailed design specifications are developed, project plans are defined, resources are allocated, and a risk management plan is established. |
| 1.3.1 | Create System Architecture | Design the overall structure and organization of the data analytics platform with the newly added AI. |
| 1.3.2 | Develop Detailed Design Specifications | Create detailed technical specifications for the AI component of the platform. |
| 1.3.3 | Define Project Plan | Develop a comprehensive project plan that outlines tasks, schedules, milestones, and dependencies. |
| 1.3.4 | Resource Allocation | Allocate human, financial, and other resources required for the project's execution. |
| 1.3.5 | Risk Management Plan | Identify potential risks to the project's success and develop strategies for mitigating or managing them. |
| 1.4 | Prototyping | Prototype development for the data analytics platform involves integrating the third-party AI tool, followed by rigorous testing and refinement based on user feedback. |
| 1.4.1 | Build Prototype | Develop an initial version of the platform with basic functionality to demonstrate the AI integration. |
| 1.4.2 | Test Prototype | Conduct thorough testing of the prototype to identify any defects or areas for improvement. |
| 1.4.3 | Gather Feedback | Solicit feedback from stakeholders and end-users to assess the prototype's effectiveness and usability with the newly integrated AI. |
| 1.5 | Frontend Development | User interface of the data analytics platform is designed, developed, and tested; showcasing the AI’s functionality. |
| 1.5.1 | Design User Interface | Design visually engaging and intuitive interfaces that facilitate seamless user interaction with the platform, integrating the third-party AI tool where applicable. |
| 1.5.2 | Develop Frontend Components | Implement frontend components affected by the AI, such as forms, buttons, and visualizations according to the design specifications. |
| 1.5.3 | Conduct Frontend Testing | Perform rigorous testing of the frontend components to ensure they function as intended across different devices and browsers. |
| 1.6 | Backend Development | Develop the backend logic, establish the database schema, and integrate data seamlessly within the data analytics platform, leveraging the capabilities of the third-party AI tool. |
| 1.6.1 | Design Database Schema | Outline the architecture and organization of the database system responsible for storing and managing data within the platform, ensuring compatibility and seamless integration with the third-party AI tool. |
| 1.6.2 | Develop Backend Logic | Write the code and algorithms that handle data processing, analysis, and other backend operations involving AI. |
| 1.6.3 | Implement Data Integration | Utilizing the AI functionality, integrate data sources and systems to ensure seamless flow and exchange of information within the platform. |
| 1.6.4 | Perform Backend Testing | Validate the integrity and reliability of the backend functionality, encompassing data processing, storage, and retrieval, ensuring seamless compatibility with the integrated third-party AI tool. |
| 1.7 | Integration & Testing | Frontend and backend systems are integrated, and comprehensive testing is conducted to validate the platform's functionality and performance using AI. |
| 1.7.1 | Integrate Frontend and Backend Systems | Combine the frontend and backend components to create a unified and cohesive platform. |
| 1.7.2 | Conduct System Testing | Perform end-to-end testing of the entire system to identify and resolve any issues or inconsistencies. |
| 1.7.3 | Perform Integration Testing | Test the integration points between different modules and components of the platform to ensure they work together seamlessly. |
| 1.8 | User Acceptance Testing | Data analytics platform is tested by end-users to ensure it meets their requirements and expectations with the addition of AI. |
| 1.8.1 | Prepare Test Cases | Develop test cases based on user requirements and use cases to validate the platform's functionality. |
| 1.8.2 | Execute Test Cases | Conduct user acceptance testing according to the prepared test cases, documenting any issues or discrepancies encountered. |
| 1.8.3 | Gather User Feedback | Solicit feedback from end-users during the testing process to identify areas for improvement and refinement. |
| 1.9 | Bug Fixing & Refinement | Identified bugs and issues are addressed, and the platform is refined based on user feedback. |
| 1.9.1 | Identify and Prioritize Bugs | Identify and prioritize reported bugs and issues based on their severity and impact on the platform's functionality. |
| 1.9.2 | Fix Bugs | Develop and implement solutions to resolve identified bugs and issues, ensuring they are thoroughly tested before deployment. |
| 1.9.3 | Retest Fixed Issues | Verify that the fixes implemented for identified bugs have resolved the issues satisfactorily through retesting. |
| 1.10 | Documentation | User manuals, technical documentation, and installation guides for the data analytics platform are created. |
| 1.10.1 | Create User Manuals | Develop comprehensive user manuals that provide instructions and guidance on how to use the platform effectively. |
| 1.10.2 | Develop Technical Documentation | Create detailed technical documentation that outlines the platform's architecture, components, and implementation details. |
| 1.10.3 | Write Installation Guides | Prepare installation guides to assist users in installing and configuring the data analytics platform in their environment. |
| 1.11 | Training and Knowledge Transfer | Training materials are developed, user training sessions are conducted, and knowledge is transferred to the support team. |
| 1.11.1 | Develop Training Materials | Create training materials, such as manuals, presentations, and tutorials, to educate users on how to effectively utilize the platform. |
| 1.11.2 | Conduct User Training Sessions | Organize and facilitate training sessions for end-users to familiarize them with the features and functionality of the platform. |
| 1.11.3 | Transfer Knowledge to Support Team | Transfer knowledge and expertise gained during the project to the support team responsible for maintaining and supporting the platform. |
| 1.12 | Deployment | AI-integrated data analytics platform is deployed into the production environment following a well-defined deployment strategy. |
| 1.12.1 | Plan Deployment Strategy | Develop a comprehensive deployment plan that outlines the steps, timelines, and resources required for a successful deployment. |
| 1.12.2 | Execute Deployment Plan | Implement the deployment plan, including installing, configuring, and testing the platform’s AI functionality in the production environment. |
| 1.12.3 | Verify System Availability | Verify that the deployed platform is accessible and operational and address any issues that arise during the deployment process. |
| 1.13 | Post-Deployment Support | User support is provided, post-deployment issues are addressed, and system performance is monitored. |
| 1.13.1 | Provide User Support | Offer assistance and support to end-users to address any questions, concerns, or issues they encounter while using the platform. |
| 1.13.2 | Address Post-Deployment Issues | Identify and resolve any issues or discrepancies that arise in the platform's functionality or performance after deployment. |
| 1.13.3 | Monitor System Performance | Continuously monitor the performance and usage of the platform to identify any potential issues or optimization opportunities. |
| 1.14 | Monitoring and Optimization | System usage is monitored, optimization opportunities are identified, and performance improvements are implemented. |
| 1.14.1 | Monitor System Usage | Track and analyze the usage patterns and performance metrics of the data analytics platform to ensure optimal operation. |
| 1.14.2 | Identify Optimization Opportunities | Identify areas for improvement and optimization within the platform based on performance data and user feedback. |
| 1.14.3 | Implement Performance Improvements | Develop and implement enhancements and optimizations to improve the efficiency, scalability, and reliability of the platform. |
| 1.15 | Project Closure | The project is formally closed out, project documentation is archived, resources are released, and project success is celebrated. |
| 1.15.1 | Conduct Project Review | Evaluate the project's performance, achievements, and lessons learned through a comprehensive project review. |
| 1.15.2 | Archive Project Documentation | Organize and archive all project documentation, including plans, reports, and deliverables, for future reference. |
| 1.15.3 | Release Project Resources | Release project resources, including human and financial resources, equipment, and infrastructure, back to their respective stakeholders. |
| 1.15.4 | Celebrate Project Success | Recognize and celebrate the successful completion of the AI- integrated data analytics platform project with the project team and stakeholders. |

# Glossary of Terms

Level of Effort: Level of Effort (LOE) is how much work is required to complete a task.

WBS Code: A unique identifier assigned to each element in a Work Breakdown Structure for the purpose of designating the elements hierarchical location within the WBS.

Work Package: A Work Package is a deliverable or work component at the lowest level of its WBS branch.

WBS Component: A component of a WBS which is located at any level. It can be a Work Package or a WBS Element as there's no restriction on what a WBS Component is.

WBS Element: A WBS Element is a single WBS component and its associated attributes located anywhere within a WBS. A WBS Element can contain work, or it can contain other WBS Elements or Work Packages.

**Sponsor Acceptance**

Approved by the Project Sponsor:

*John’s signature* 02/01/2024

Date:

John Doe

Vice President