Final project

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Project start: Mon, 11/18/2024

Display week: 1

TASK	DURATION	START	END
Project Planning and Requirements Gathering			
Define project goals and objectives	2	18/11/24	19/11/24
Identify stakeholders and gather requirements	3	20/11/24	22/11/24
Research similar systems for functionality benchmarks	2	23/11/24	24/11/24
Outline project scope and deliverables	3	25/11/24	27/11/24
Create initial project timeline and milestone planning	2	28/11/24	29/11/24
Approval and finalization of requirements	2	30/11/24	01/12/24
System Design (UML Diagrams)			
Define system components and modules	2	02/12/24	03/12/24
Create use case diagrams for system interactions	1	04/12/24	04/12/24
Develop class diagrams to outline data structure	2	05/12/24	06/12/24
Create sequence diagrams to map workflows	1	07/12/24	07/12/24
Review and finalize UML diagrams with stakeholders	1	08/12/24	08/12/24
Database Design and Development			
Design database schema and relationships	3	09/12/24	11/12/24
Create tables for products, inventory, transactions, suppliers	3	12/12/24	14/12/24
Define primary keys, foreign keys, and constraints	2	15/12/24	16/12/24
Develop stored procedures and triggers	3	17/12/24	19/12/24
Conduct initial testing on database integrity	3	20/12/24	22/12/24
Python Scripting for Automation			
Script to handle inventory updates	8	23/12/24	30/12/24
Develop reorder alert generation script	4	31/12/24	03/01/25
Script for real-time data fetching and updating	4	04/01/25	07/01/25
Testing and debugging of scripts	5	08/01/25	12/01/25
Data Analysis and Visualisation Development			
Connect Python to database for data retrieval	3	13/01/25	15/01/25
Implement data processing and analysis functions	3	16/01/25	18/01/25
Develop visualisations	5	19/01/25	23/01/25
Testing visualisations for accuracy and clarity	3	24/01/25	26/01/25
System Integration and Unit Testing			
Integrate Python scripts with MySQL database	4	27/01/25	30/01/25
Conduct unit testing on individual modules	4	31/01/25	03/02/25
Perform integration testing across modules	4	04/02/25	07/02/25
Document test cases and results	2	08/02/25	09/02/25
User Training and Documentation			
Develop user manual with step-by-step instructions	3	10/02/25	12/02/25
Create technical documentation for system structure	3	13/02/25	15/02/25
Collect feedback from users and make adjustments	1	16/02/25	16/02/25
Final Review and Adjustments			
Conduct final review with stakeholders	2	17/02/25	18/02/25
Implement minor adjustments and fixes	2	19/02/25	20/02/25
Finalize documentation and close-out report	2	21/02/25	22/02/25
Project handover and sign-off	1	23/02/25	23/02/25

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