



**TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES
TAGUIG CAMPUS**

Bachelor of Technical Vocational Teacher Education
Basic Arts and Sciences Department

Project Charter

ITSD220-T – System Analysis and Design

Output 2

PROJECT NAME	Red Oscar Inventory Management System		
CLIENT	Red Oscar Japanese-Filipino Food House		
DURATION	3 Months & 2 Weeks		
START DATE	06/12/25	END DATE	08/01/25
DESCRIPTION			
<p>The “Red Oscar Inventory Management System” is a comprehensive solution designed to streamline inventory tracking and management for Red Oscar Japanese-Filipino Food House. This system provides real-time visibility into stock levels, automates ordering processes, and helps minimize waste, ultimately improving efficiency and profitability.</p>			
BUSINESS CASE			
<p>PROBLEM</p> <p>The Red Oscar food house currently relies on a manual, paper-based inventory system for tracking raw materials and finished products. This method is inefficient, prone to errors (leading to potential stockouts or overstocking), lacks real-time data visibility, and hinders informed decision-making regarding purchasing and production planning. Our project aims to address these limitations by developing a digital inventory management system.</p> <p>PROJECT JUSTIFICATION</p> <p>Red Oscar's current manual inventory system is inefficient, error-prone, and lacks real-time data. This project justifies the development of a digital inventory management system to improve accuracy, reduce waste, optimize purchasing, and enhance overall profitability. The return on investment will be significant through streamlined operations and minimized losses.</p> <p>PROJECT OBJECTIVES</p> <p>The objectives of this project are as follows:</p> <ul style="list-style-type: none">• Develop a user-friendly digital inventory management system for Red Oscar food house within 3 months and 2 weeks.• Automate the tracking of raw materials and finished products.• Minimize manual data entry and reduce the risk of human error.			



**TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES
TAGUIG CAMPUS**

Bachelor of Technical Vocational Teacher Education
Basic Arts and Sciences Department

Project Charter

ITSD220-T – System Analysis and Design

Output 2

- Provide real-time inventory visibility and reporting capabilities.
- Increase profitability by optimizing stock control and minimizing losses.

PROJECT SCOPE

- **Develop and Test a User-Friendly Inventory Management System**

Design and build an intuitive inventory system that allows Red Oscar staff to efficiently manage products, track stock levels, and monitor transactions in real time. The system will undergo thorough testing, including functional, integration, and user acceptance testing, to ensure it is reliable, secure, and tailored to the organization's specific workflow.

- **Migrate existing data (if applicable)**

If Red Oscar is using an existing database, spreadsheets, or manual records, relevant data will be carefully reviewed and prepared for import. The data migration process will include cleaning, validation, and testing to ensure accuracy and consistency in the new system.

- **Train Red Oscar staff on system usage**

All staff who will interact with the system will receive hands-on training to ensure they are confident and competent in its use. Training sessions will be supported with user manuals, video guides, and direct support to cover tasks such as adding products, updating inventory, and generating reports.

- **Implement and deploy the system**

Once development and testing are complete, the system will be deployed in the live environment and fully configured with appropriate user roles, permissions, and settings. The deployment will be carefully managed to minimize disruption, with a possible phased rollout if needed.

- **Provide initial post-implementation support**

After launch, a dedicated support period will be provided to resolve any issues, gather user feedback, and make any necessary adjustments. Ongoing monitoring will ensure the system operates smoothly, and users will have access to technical assistance as they adapt to the new workflow.



**TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES
TAGUIG CAMPUS**

Bachelor of Technical Vocational Teacher Education
Basic Arts and Sciences Department

Project Charter

ITSD220-T – System Analysis and Design

Output 2

PROJECT CONSTRAINTS

- Project budget limitations.
- The project must be completed within 3 months and 2 weeks.
- Availability of IT Red Oscar staff for training and data migration.
- Potential technical challenges during system integration.
- Limited existing IT infrastructure at Red Oscar.

SYSTEM USERS

INVENTORY MANAGER

- Will use the system to track stock levels, manage orders, and generate reports, utilizing all system features for comprehensive inventory control.

PURCHASING MANAGER

- Uses system reports for data-driven purchasing decisions, optimizing stock and minimizing waste.

KITCHEN STAFF

- Will input data on raw material usage to ensure accurate inventory levels, streamlining the process of tracking ingredients

OWNER

- The owner will use the system to monitor overall business performance, track profitability tied to inventory management, and make high-level strategic decisions based on inventory data and reports.



**TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES
TAGUIG CAMPUS**

Bachelor of Technical Vocational Teacher Education
Basic Arts and Sciences Department

Project Charter

ITSD220-T – System Analysis and Design

Output 2

HARDWARE REQUIREMENTS

HARDWARE	ESTIMATE COST
Desktop/Mobile Computers	₱3,920

PROJECT TEAM

NAME	ROLE
Palallos, Fria Rica S.	Project Manager
Opiana, Mark Joseph F.	Frontend Developer
Brillantes, John Albert B.	Backend Developer
Delmo, Christian D.	Database Manager
Musa, Zander B.	UI/UX Designer
Villaluna, Alexi Keana G.	Researcher

Fria Rica Palallos
Project Leader

Patrick Justin Ariado
Course Instructor