

**CSP332/ITP323 IT/CS RESEARCH METHODS
ACCOMPLISHMENT REPORT**

November 7, 2024

TEAM NAME:	NexDev	DATE:	
TEAM MEMBERS:	San Jose, Ar-jay Stephenbel P. Muni, Rodge Romer B. Singuancia, Charles Roy		

PROECT TITLE:	SwapShop: A Community E-Commerce and Barter-Bidding Platform for Olongapo
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NO.	CHAPTER AREA / PART	ACTIVITY / TASK	DETAILED ACCOMPLISHMENT
1	1	Conceptual Framework	I created two conceptual models and discussed them.
2	1	Statement of the Problem	In this section, I have already outlined the problems.
3	1	Significance of the Study	I have completed this section and included all the stakeholders here.
4		Questionnare	I created a questionnaire for our users and beneficiaries.
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Note: Attach proof/evidence for the mentioned accomplishment. Make sure to submit and create proper documentation.

Conceptual Framework:



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1.2.2 Conceptual Framework

The Input-Process-Output (IPO) model is used to illustrate the flow of information and processes within the SwapShop system. This model demonstrates how various inputs are transformed through system processes to produce the desired outputs, fostering sustainable practices, economic accessibility, and stronger community connections among Olongapo City residents.

The inputs include user registration details, item descriptions, and trade or barter proposals. These inputs are processed through item matching algorithms, user authentication, and transaction management systems, ensuring efficient and secure operations. The outputs consist of successfully completed swaps, user feedback, trust-building ratings, and overall reductions in waste accumulation.

This framework highlights SwapShop's potential to address community needs by creating an accessible and eco-friendly platform that encourages resource sharing and strengthens bonds within the community.



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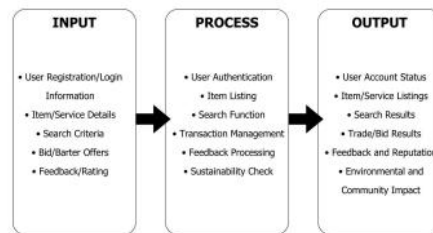


Figure 1. Input-Process-Output (IPO) Model for SwapShop Platform

Entity Relational Diagram

The ERD for SwapShop designs an organized system for managing community exchanges. It includes primary entities like Users, Items, Barter Transactions, Bidding, Feedback, and Categories. These entities track the items people offer, how they exchange them, and how users interact with each other. The structure helps ensure smooth and secure transactions, promotes resource-sharing, and builds trust within the community. This system not only supports current user needs but also provides data for future improvements, aiming to enhance sustainability, reduce waste, and strengthen community bonds.



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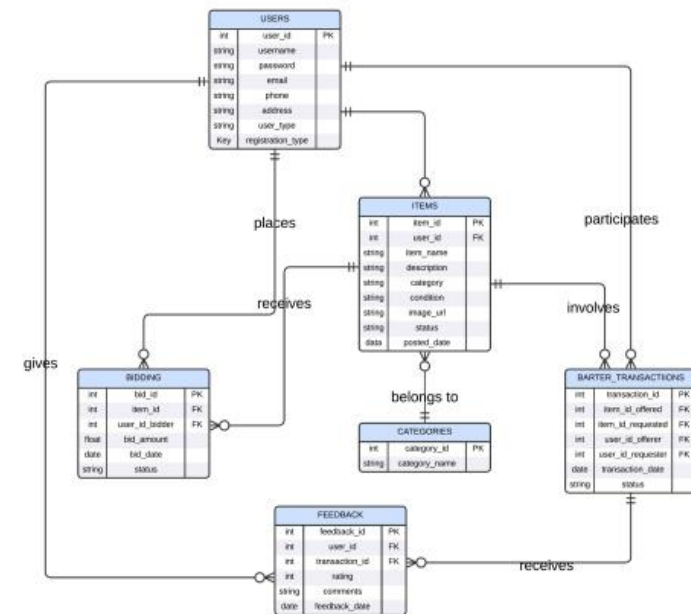


Figure 2. Entity Relational Diagram of SwapShop

Statement of the Problem:

1.3 Statement of the Problem

This study aims to evaluate the current access to essential goods and services in Olongapo City and assess the community's readiness to adopt a digital bartering and swapping platform.

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1. What challenges do Olongapo residents face in acquiring essential goods and services without relying on monetary transactions?
2. How can unused or surplus household items be effectively repurposed to reduce environmental waste and promote sustainability?
3. What features and functionalities are necessary for SwapShop to facilitate secure, efficient, and user-friendly bartering and bidding?
4. How can SwapShop strengthen community ties and promote collaboration among Olongapo residents?
5. What are the potential social, economic, and environmental impacts of implementing SwapShop in the community?
6. What challenges might arise during the development and adoption of SwapShop, and how can these be addressed?

Significance of the Study:

1.4 Significance of the Study

This study is valuable to various important stakeholders in healthcare, as detailed below:

Residents of Olongapo City. This study helps residents address rising living costs by providing a platform for bartering and bidding, enabling them to acquire essential goods and services without



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financial strain. It also fosters stronger community bonds and promotes environmental sustainability.

Environmental Advocates. The platform encourages recycling and waste reduction, offering an eco-friendly solution to environmental issues. It serves as a model for promoting sustainability at the community level.

Local Businesses and Vendors. SwapShop provides local businesses and vendors with opportunities to expand their reach and exchange goods or services, reducing operational costs while fostering connections within the community.

Community Organizations. This study supports community organizations by offering a tool to promote resource-sharing initiatives and enhance cooperation among residents.

Future Researchers. Future researchers can use this study as a reference for exploring community-based solutions to socio-economic

and environmental challenges, particularly those involving barter and e-commerce platforms.

Questionnaire:



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Thank you for participating in this survey for SwapShop, A community e-commerce and barter-bidding platform designed for Olongapo residents. Your feedback is essential in helping us understand the platform's potential and how it can best serve your needs.

- **Purpose:** This survey aims to gather your opinions about the SwapShop platform, its features, and how it can improve your experience in trading goods and services within the community.
- **Confidentiality:** Your responses will remain confidential and will only be used for research purposes.

For the first part of the survey, you will rate each question using the following scale:

- 1- Very Dissatisfied
- 2- Dissatisfied
- 3- Neutral
- 4- Satisfied
- 5- Very Satisfied

Questions	5	4	3	2	1
1. How satisfied are you with the idea of using a platform like SwapShop for exchanging goods and services in your community?					
2. How satisfied are you with SwapShop's potential in reducing waste and promoting sustainability?					
3. How satisfied are you with SwapShop's ability to address the needs of low-income households?					
4. How satisfied are you with the platform's ability to promote bartering and bidding as alternatives to traditional buying and selling?					
5. How satisfied are you with the ease of using SwapShop for trading items or services?					



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6. How satisfied are you with SwapShop's potential to reduce the financial strain on households?					
7. How satisfied are you with SwapShop's potential to strengthen community connections?					
8. How satisfied are you with SwapShop's potential to solve the issue of unused items being discarded as waste?					
9. How satisfied are you with the inclusion of features like user feedback and trust-building mechanisms on SwapShop?					
10. How satisfied are you with the overall concept of SwapShop as a platform you would recommend?					

For the last part, you will find a few open-ended questions. Please provide your honest opinions and suggestions in your own words.

- 11. What items or services do you think will be most commonly traded on SwapShop in your community?
- 12. How do you think SwapShop could improve the way residents of Olongapo connect and trade with each other?
- 13. What challenges or barriers do you foresee in using SwapShop, and how do you suggest these be addressed?

Thank you for your valuable feedback! Your input helps us improve SwapShop and build a stronger, more sustainable community in Olongapo City.