



Republic of the Philippines
EASTERN VISAYAS STATE UNIVERSITY
ORMOC CAMPUS
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JPCS FUND MANAGEMENT SYSTEM

Case Study Analysis Activity

1. Characterize (Identifying the Problem)

Case: The Junior Philippine Computer Society (JPCS) experiences inefficiencies in collecting fees due to its reliance on a manual payment system.

Challenges:

- Manual logbooks cause errors and lost records.
- Officers spend excessive time verifying payments.
- Lack of transparency in financial management.
- Members face long queues and lack an easy way to verify their payments.

2. Hypothesize (Suggest a solution)

Hypothesis:

- The inefficiencies in JPCS's fee collection system are due to manual recording and lack of automation.
- Errors, lost records, and delays occur because there is no structured digital tracking system.

Proposed Solution:

- **Develop a JPCS Fund Management System (FMS) that will:**
 - Record Fee Transactions – Automatically log payments.
 - Generate PDF Reports – Provide digital receipts.
 - Dashboard with Analytics – Display financial summaries.

3. Predict (Estimate the Outcome)

If the solution is implemented, we expect:





- ✓ **Faster Transactions** – Digital payments replace manual logbooks.
- ✓ **Accurate Fund Calculations** – Automated system eliminates errors.
- ✓ **Easy Access to Records** – Officers retrieve data instantly.
- ✓ **More Secure & Reliable** – No risk of lost logbooks.
- ✓ **Less Stress for Everyone** – More efficient operations.

4. Experiment (Testing the solution)

Testing Plan:

- **System Development** – Using Java Swing, MySQL, and FlatLaf.
- **Pilot Testing** – Select JPCS officers & members to use the system.

Performance Metrics:

-  **Transaction Time:** Compare manual vs. digital processing speed.
-  **Error Rate:** Track incorrect/missing records.
-  **User Feedback:** Collect insights through surveys.
-  **Data Accessibility:** Test how quickly officers retrieve payment record

Thank You!

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