



# Pasig City Anti-Drug Abuse Office



**SYSTEM INTEGRATION AND ARCHITECTURE I**  
SUBJECT

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## **TABLE OF CONTENTS**

### **1 INTRODUCTION**

Background.....	Modules
Specification.....	
RACI Matrix.....	
Architectural Design .....	
High - Level .....	
Low - Level .....	



# INTRODUCTION

## 1.1 BACKGROUND

According to the United Nations Office on Drugs and Crime (UNODC), Around 275 million people globally used drugs in 2021, while in the Philippines, the Dangerous Drug Board (DDB) reported that there are 1.8 million current drug users in the Philippines as of 2019, and 4.8 million Filipinos report having used illegal drugs at least once in their lives.

The Pasig City Anti-Drug Abuse Office(PCADAO) is a local government agency in Pasig City, responsible for addressing issues related to drug abuse and addiction within the City. The PCDAO plays a key role in implementing and managing anti-drug initiatives and programs, and in creating a safer and healthier community by tackling drug abuse through a coordinated, multi-faced approach. They contribute to the broader goal of reducing drug-related problems and supporting affected individuals and families in their recovery journey.

## 1.2 MODULE SPECIFICATIONS

The **Pasig City Anti-Drug Office Management Module** is an advanced computerized system specifically designed to enhance the efficiency of treatment and rehabilitation processes for drug abuse cases. With features tailored to streamline patient management, this system ensures a more organized and effective approach to addressing the needs of individuals classified as Persons Who Use Drugs (PWUDs) with severe risk levels.

Integrated with the **City Health Department**, particularly the **Substance Abuse Treatment Office**, this technology facilitates faster and more efficient transactions for clients requiring rehabilitation. It significantly improves the monitoring and processing of patients' documents, ensuring that all necessary steps are completed swiftly and accurately. Additionally, the module expedites the admission process into **Treatment and**

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**Rehabilitation Centers (TRCs)**, supporting Pasig City's mission to provide timely and comprehensive care for individuals undergoing substance abuse treatment.

**Key Module Functionalities:**

**1. Case Management:**

Streamlines the management of cases involving individuals with substance use disorders by ensuring accurate documentation and organized workflows. This functionality supports effective resolution of cases and smooth transitions into rehabilitation programs.

**2. Rehabilitation Progress Monitoring:**

Provides a robust mechanism to track and evaluate the progress of patients undergoing treatment and intervention programs. This feature enables regular assessments, timely follow-ups, and tailored support to enhance recovery outcomes.

**3. Scheduling Management:**

The system is integrated with the **City Health Office (CHO)**, where the **Substance Abuse Treatment Office (SATOP)** has the authority to decide and schedule patient appointments for **Medical Examinations** and **Drug Dependency Examinations**. The specific date and time for each patient will be determined by SATOP to ensure a structured and efficient endorsement process.

**4. Manual Addition of Patient Names:**

Provides users with the ability to manually add patient information into the system. This feature is essential for cases where patients are referred or endorsed without prior system encoding, ensuring that all patients are properly documented and tracked in the system. Users can input:

- Patient Name
- Age
- Gender
- Barangay

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- Referral Source
- Assessment Score
- Initial Assessment Details  
This ensures that even walk-in or manually referred patients are fully integrated into the system workflow.

**5. Integrated Care Coordination:**

Connects the system with the City Health Department and the Substance Abuse Treatment Office, enabling a collaborative approach to patient care, rehabilitation, and post-treatment monitoring.

**6. Real-Time Progress Insights:**

Offers real-time access to data on treatment outcomes and patient recovery trends, empowering healthcare providers and stakeholders to make informed decisions and adjustments to intervention strategies.

**7. Reporting and Statistical Analysis:**

Automates the generation of **Monthly** and **Quarterly Reports** based on patient data encoded by users. This feature provides insights into:

- The total number of patients admitted for treatment.
  - The progress of ongoing rehabilitation cases.
  - Demographics of patients (age, gender, location, etc.).
  - Success rates of intervention programs.
  - Common challenges encountered during rehabilitation.
- These reports allow for evidence-based planning and performance evaluation of rehabilitation programs.

**8. Transparency and Accountability in Rehabilitation:**

Maintains accurate and accessible records of rehabilitation processes, ensuring transparency and promoting accountability in managing patient care and treatment programs.

### Management Accounting

The management accounting module will provide the valuation and recording of financial data, not only for financial reporting but also as the basis for all cost- and revenue-related reporting. As a result, NTDCL's analysts and managers can work with the same basic data.

Key features and functions include:

- Contract, profit center, project, product cost, profitability, and cost-center accounting
- Investment management
- Revenue and cost planning
- Transfer pricing
- Master data governance

### Procurement and Inventory Management

NTDCL will improve capital efficiency with better productivity in logistics, and it will reduce costs by lowering inventory levels and consolidating shipments through support of the following business activities:

- and warehouse management
- Record and track the quantity and value of all materials, perform physical inventory, and optimize all warehouse resources



- Plan, enter, and document warehouse-internal stock movements by managing goods receipts, goods issues, storage, picking and packing, physical stock transfers, and transfer postings
- Manage workload planning, wave picking and order consolidation, handling-unit management, cross-docking, and real-time monitoring of all activities
- Inbound and outbound logistics
- Facilitate the movement of incoming and outgoing physical goods, including logistics involving multiple manufacturers
- Support inbound processing with capabilities to monitor the receipt of goods, track external demand, handle advanced shipping notifications, and manage in-yard activities
- Operate outbound processes, including posting goods issues, monitoring delivery and distribution activities, and documenting proof of delivery
- Perform the complete procure-to-pay process, including requisitioning, purchase-order management, and invoice verification

## **1.2 RACI Matrix**

The following section describes the roles and responsibilities of each key individual or group within the project organization.

**Project Sponsor.** The Project Sponsor is the champion of the project, who will serve to:

- Provide strategic direction for the project.
- Obtain funding approval for the project.
- Ensure ongoing commitment throughout the project.
- Work with the Implementation Steering Committee to facilitate timely decisions.





**Implementation Steering Committee.** The Implementation Steering Committee will serve to:

- Establish the overall direction of the project.
- Review and Approve the Project Charter.
- Ensure the availability of appropriate resources.
- Provide decision support.
- Provide management support to the project team.
- Liaise with the President's Council and the project team.

**Project Director.** The Project Director, in conjunction with the Project Management Office (PMO), will serve to:

Provide project management for the duration of the project ensuring the overall direction and management of all aspects of the implementation align with the strategy established by the Project Sponsor and the Steering Committee.

Provide project coordination and administrative support.

- Coordinate activities to ensure timely dissemination of project information by the Project Communication Plan as defined in the Project Charter.
- Develop implement and maintain/update the master Project Plan.
- Provide coordination of all internal resources.
- Provide project liaison with external consultants.
- Monitor project tasks to ensure the timely delivery of work products.
- Develop, maintain, and update all project-related documentation, such as:

Project Issue Logis is designed to track issues identified throughout the project life cycle.

Training materials were developed in conjunction with the Project Consultant and other sources.

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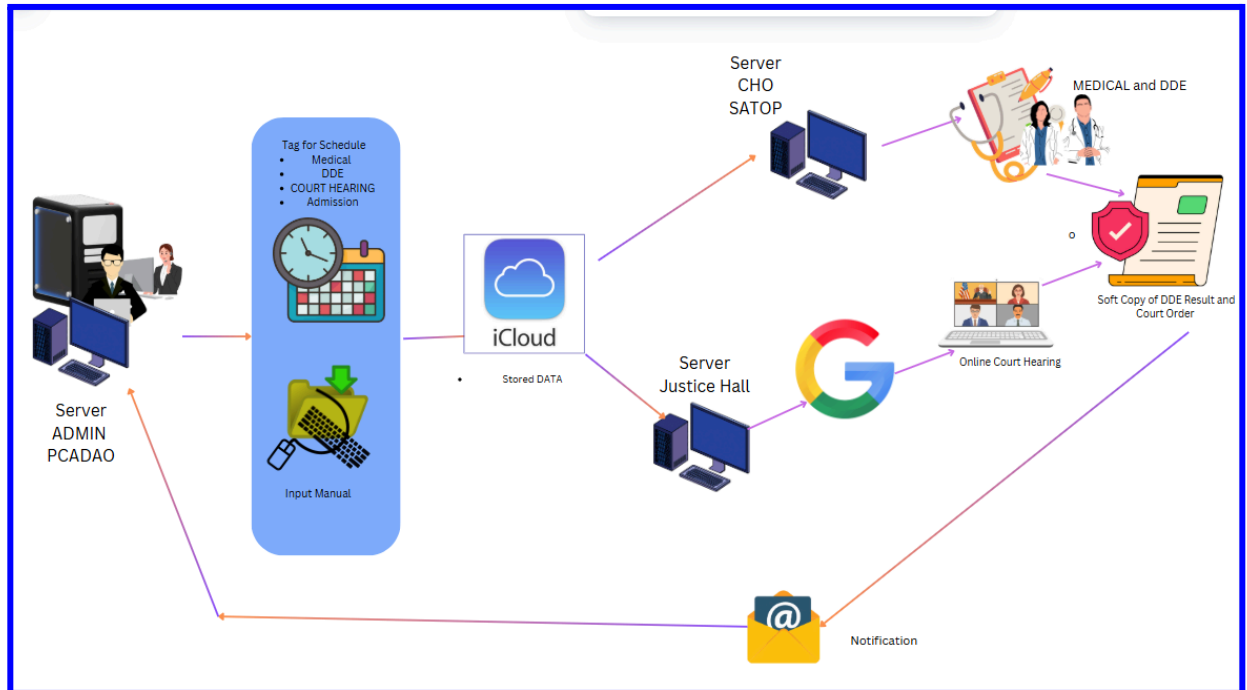
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Functional, user, and technical documentation.

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## Architectural Design

### High-Level Diagram



(pinagdadaan / laptop icon/database: nka cloud ba sya ? may backup ba sya ? / ano ang next mangyayare / )

This high-level diagram illustrates the flow of data and functionalities within the Pasig City Anti-Drug Office system. Below is a breakdown of the components and their roles:

#### 1. Server - ADMIN PCADAO:

- This server acts as the central hub for administrative functions.
- It allows for manual input of patient information, tagging schedules, and initiating the processing of key events like Medical Exams, DDE (Drug Dependency Examination), Court Hearings, and Admissions.
- This server communicates with other connected systems and is critical for managing data.

**2. Input Manual and Tagging System:**

- This module is responsible for managing the schedules of Medical Exams, DDE, Court Hearings, and Admissions.
- It ensures that patient data and schedules are systematically logged for further processing.
- Provides flexibility for manual updates to the database when necessary.

**3. Cloud Storage (iCloud):**

- Stores all patient-related data, documents, and schedules securely.
- Acts as a central repository accessible by other servers like CHO (City Health Office) SATOP and Justice Hall.
- Enables data synchronization and real-time access across different modules.

**4. Server - CHO SATOP:**

- This server manages the medical and rehabilitation processes.
- It connects to the Medical and DDE systems, where assessments, results, and treatment plans are generated.
- Facilitates the exchange of information with the PCDAO server and ensures timely processing for patients.

**5. Medical and DDE:**

- Handles medical examinations and drug dependency evaluations.
- Results are generated and shared as soft copies, which are then forwarded to the appropriate stakeholders like the court and administrative systems.
- Enhances efficiency by automating the examination process and ensuring data integrity.

**6. Server - Justice Hall:**

- Facilitates the legal aspects of the system, including court hearings.
- Integrates with the court system for processing hearings related to patients.
- Uses online tools for virtual hearings and ensures soft copies of DDE results and court orders are accessible.

**7. Online Court Hearing:**

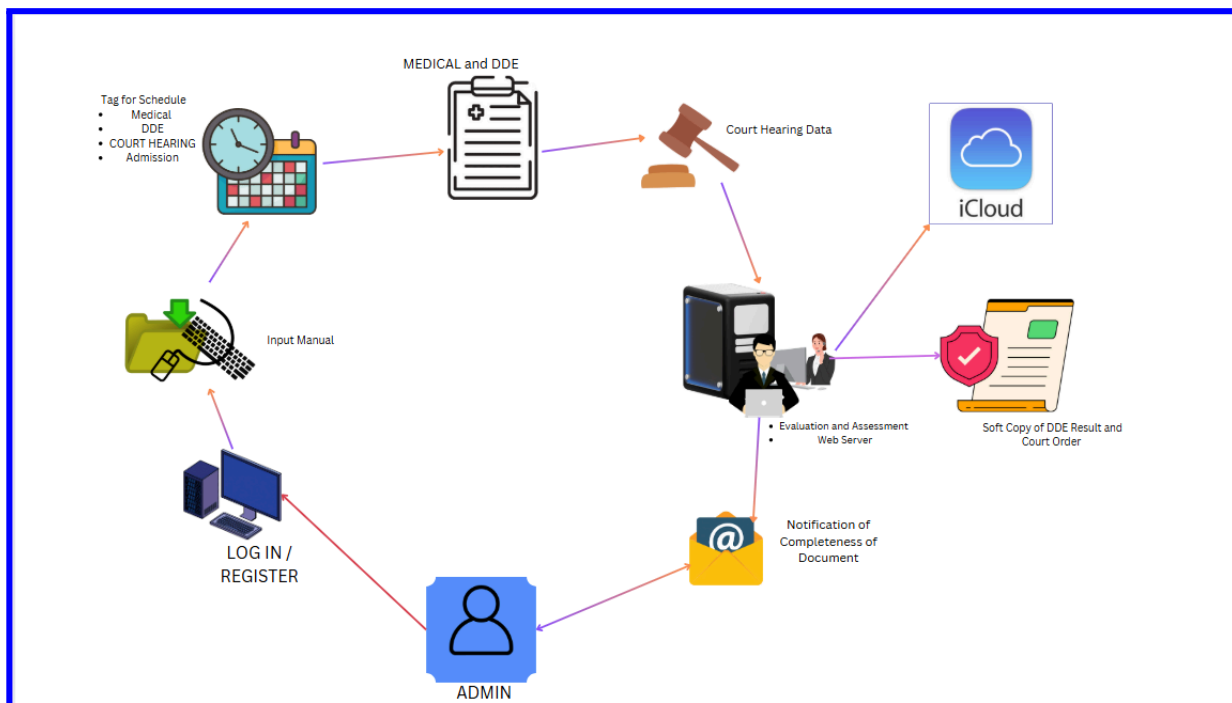
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- Enables remote participation in court proceedings, reducing logistical challenges.
- Linked with the Justice Hall server to streamline legal processing.

**8. Notification System:**

- Sends out alerts and updates regarding the status of schedules, document completeness, and other key events.
- Ensures stakeholders are informed in real time about the progress of cases and treatments.



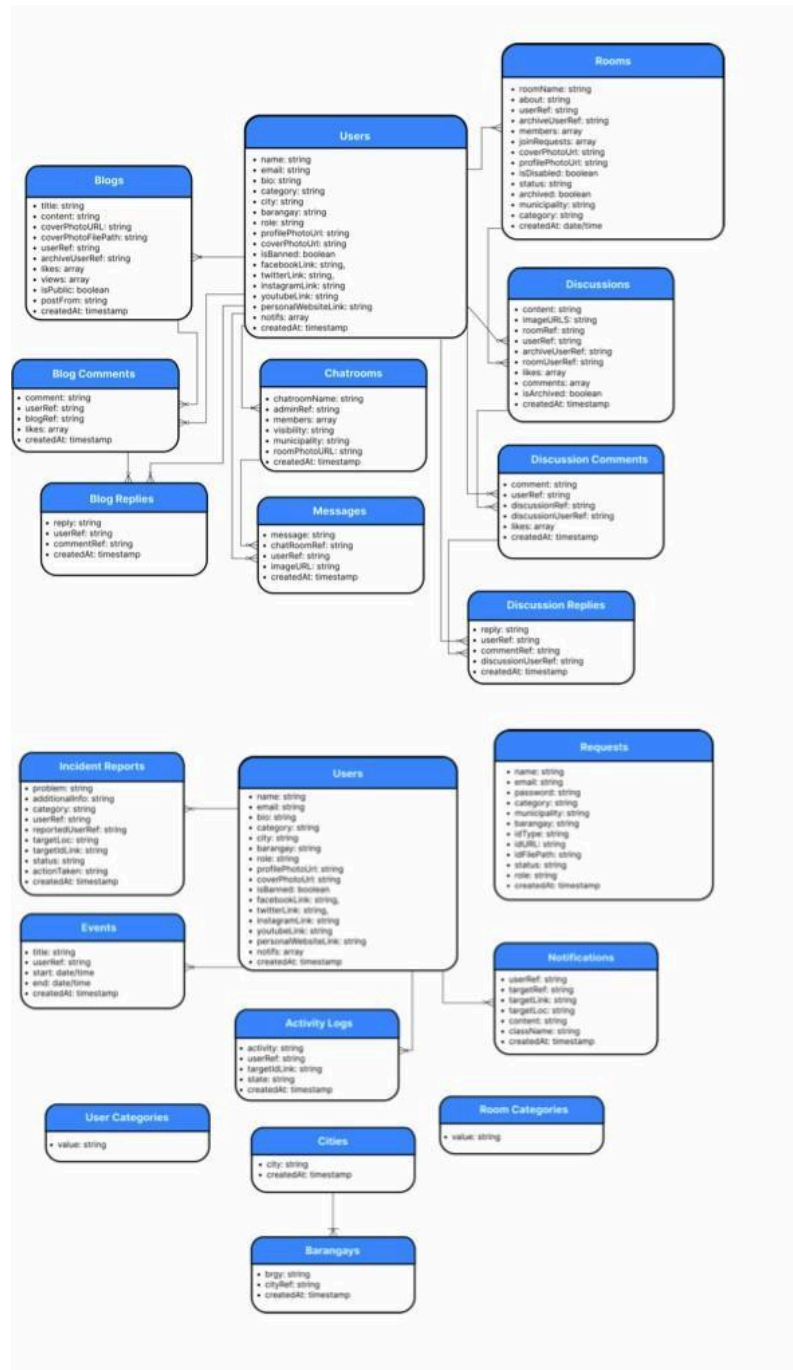
### Low-Level Diagram

1. **Login/Register:** Users authenticate based on their role.
2. **Input Manual:** The admin can manually add patient details into the system.
3. **Scheduling:**
  - ◆ Tag patients for Medical/DDE/Court Hearings/Admissions.
  - ◆ SATOP assigns specific times via CHO.
4. **Medical & DDE Results:** Store data and link it to cases.
5. **Evaluation/Assessment:** Process data through a web server and ensure results are synced with court-related requirements.
6. **Notification:** Notify users when all documents are complete.
7. **Reports:** Generate statistics and trends for monthly/quarterly reviews.
8. **Cloud Backup:** Store critical documents like DDE results and court orders for accessibility.

#### 1.4 Database Schema Diagram



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Client Data Form

Date:	<input type="text" value="mm/dd/yyyy"/>	Time:	<input type="text" value="--:-- --"/>
Name:	<input type="text" value="Last Name, First, Middle"/>	Extended Name:	<input type="text"/>
Alias/Nickname:	<input type="text" value="Jr/Sr"/>		
Date of Birth:	<input type="text" value="mm/dd/yyyy"/>	Age:	<input type="text"/>
Gender:	<input type="text" value="Select Gender"/>		
Number of Siblings:	<input type="text"/>	Female Siblings:	<input type="text"/>
Male Siblings:	<input type="text"/>	Birth Order:	<input type="text"/>
Number of Dependents:	<input type="text"/>		
Nationality:	<input type="text"/>	Ethnic Group:	<input type="text"/>
Religion:	<input type="text"/>		
Contact Number:	<input type="text"/>	Civil Status:	<input type="text" value="Single"/>
Place of Birth:	<input type="text"/>		
Permanent/Present Address:	<input type="text"/>	Foreign/Provincial Address:	<input type="text"/>
Petitioner's Name:	<input type="text"/>	Relation:	<input type="text"/>
Contact No:	<input type="text"/>		

Personal Data Form

Full Name	<input type="text" value="johnmark agravante"/>
Address	<input type="text" value="barangay manggahan"/>
Contact Number	<input type="text" value="09327656876"/>
Screening Result	<input type="text" value="severe"/>
Upload Requirements	<input type="text" value="Choose File   stigma.png"/>
Additional Remarks	<input type="text" value="for medical and DOE Schedule"/>
<input type="button" value="Submit"/>	

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The screenshot shows a web browser window with the address bar displaying 'File C:/xampp/htdocs/PCDAO/Treatment.html'. The browser's top bar includes links for 'online Debugg...', 'Gmail', 'YouTube', 'Maps', and 'Create a new MySQL...'. The main content area features a 'Personal Data Form' with the following fields: 'Full Name' (with placeholder 'Enter your full name'), 'Address' (with placeholder 'Enter your present address'), 'Contact Number' (with placeholder 'Enter your contact number'), 'Screening Result' (with placeholder 'Enter the Screening Result'), 'Upload Requirements' (with a 'Choose File' button and 'No file chosen' text), and 'Additional Remarks' (with placeholder 'Add any additional remarks...'). A blue 'Submit' button is at the bottom of the form. Below the form is a 'Submitted Data' box containing the following information: Name: johnmark agravante, Address: barangay manggahan, Contact Number: 09327656876, Screening Result: severe, Remarks: for Medical and DDE Schedule, and Status: Waiting for DDE schedule.

## ***1.6 References***

- 1. UNODC World Drug Report 2021: Press Release and National Center for Biotechnology Information - The Manila Declaration on the Drug Problem in the Philippines***
- 2. Pasig City Anti-Drug Abuse Mandates and Resolutions - Manual of Operation on Processing of Requirement to Admission of Patient to the Treatment Rehab Facilities***