



Presented to the DISCS of  
Ateneo de Manila University  
Term 1, A.Y. 2021-2022

In partial fulfillment  
of the course  
MSYS 41: Business Applications Development 2

**Deliverable 1**  
**Barangay GV's Web Portal**

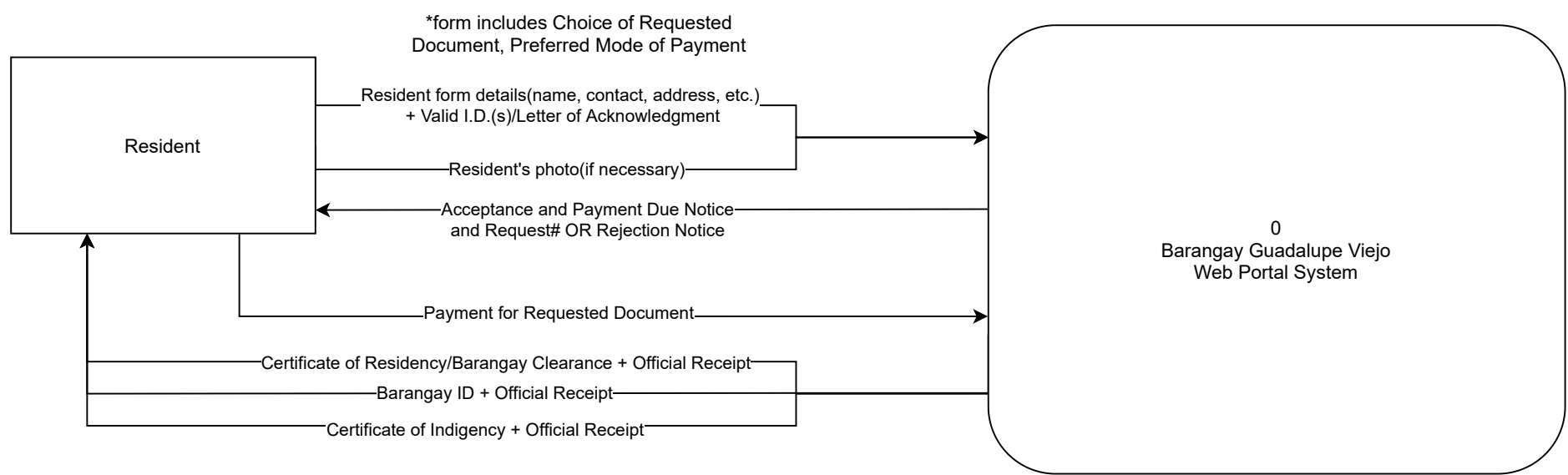
Submitted by:

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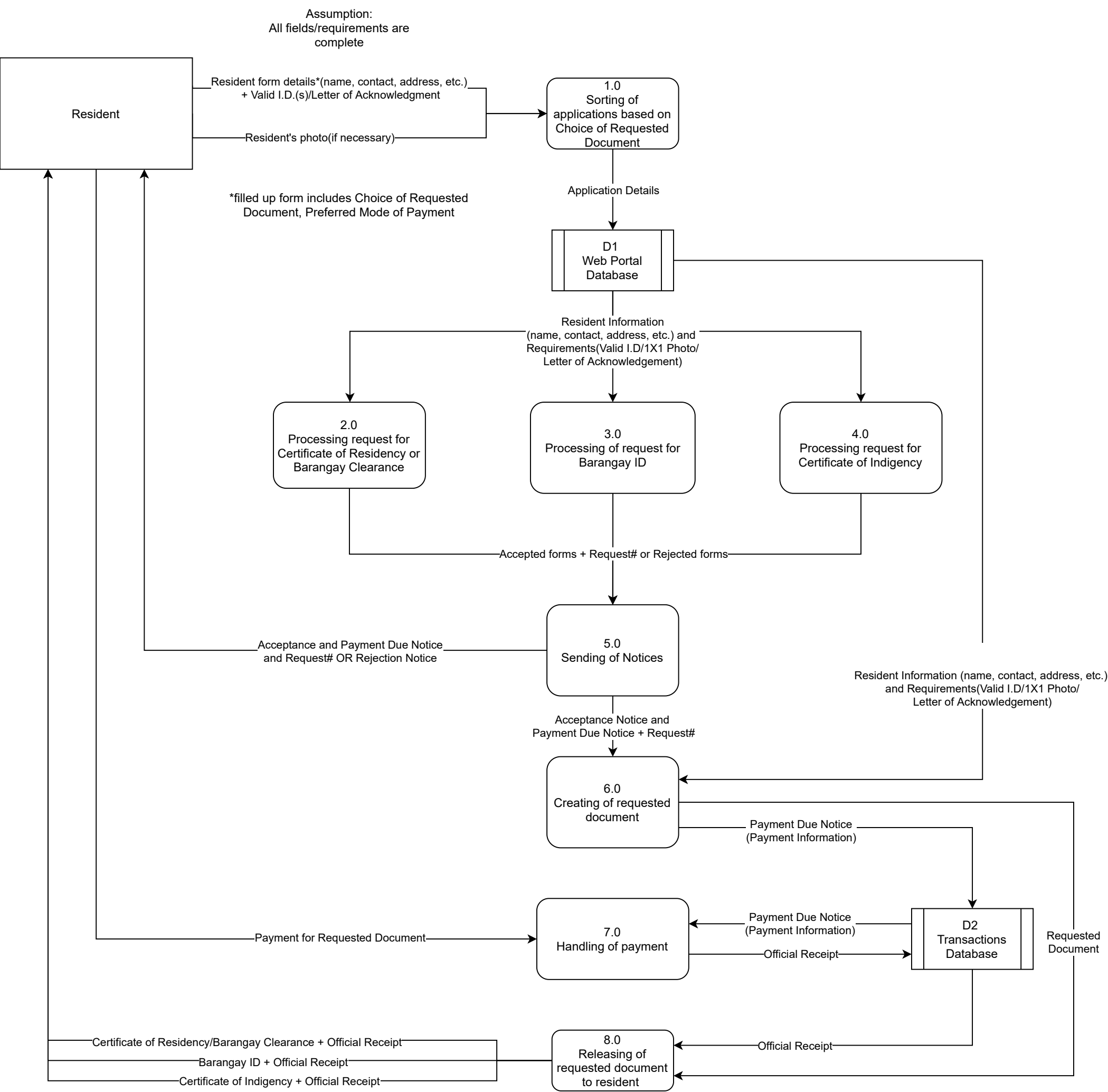
Submitted to:

**Agloro, Jr., Guillermo Paolo M.**

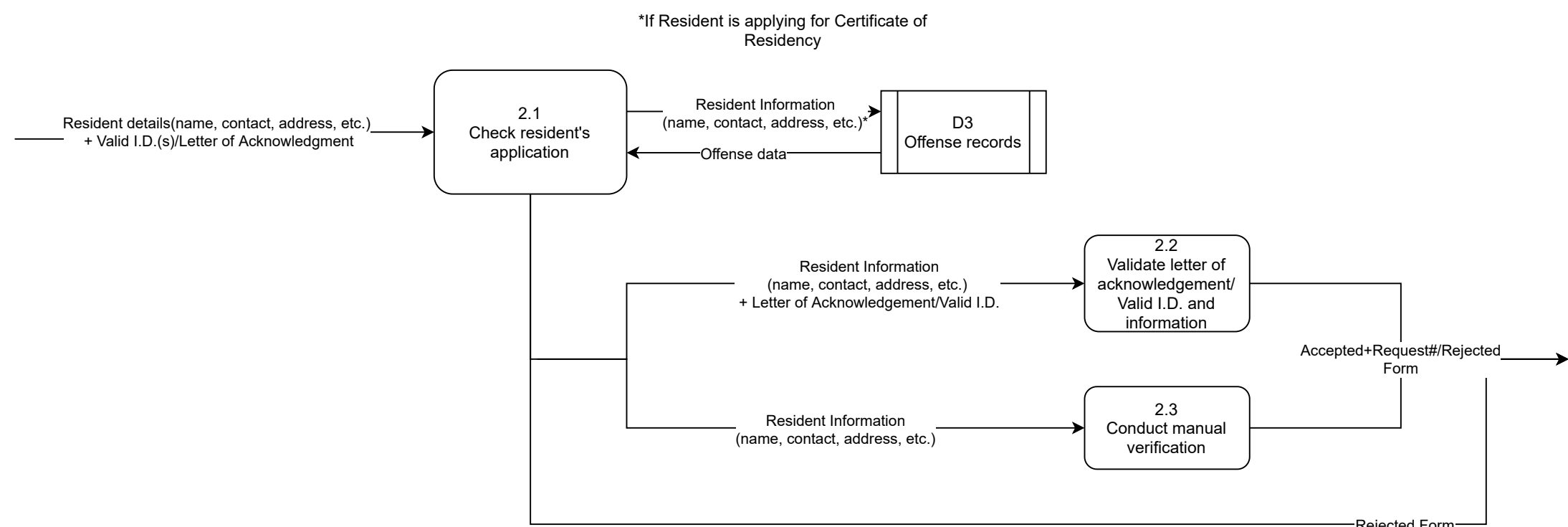
# Proposed Logical CLD



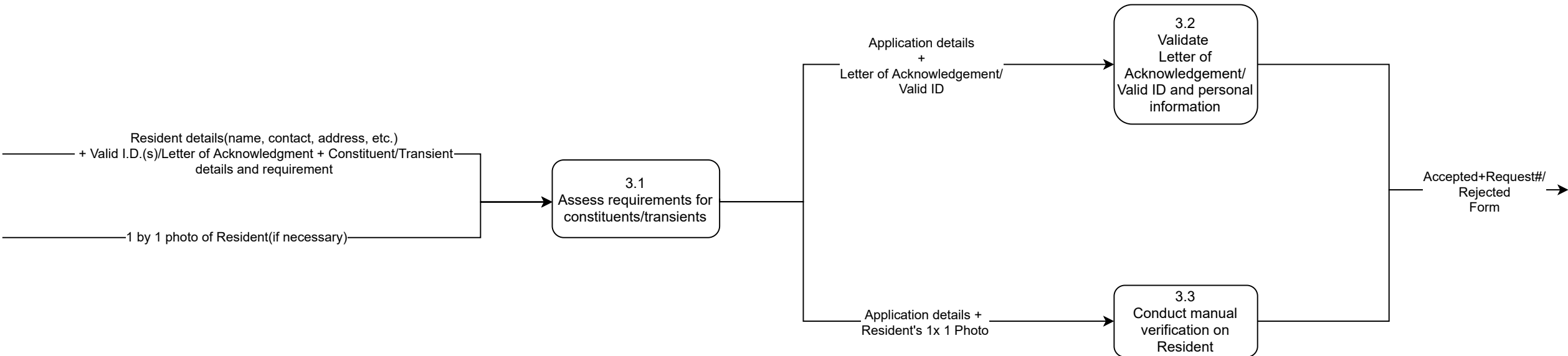
# Proposed Logical Level 0



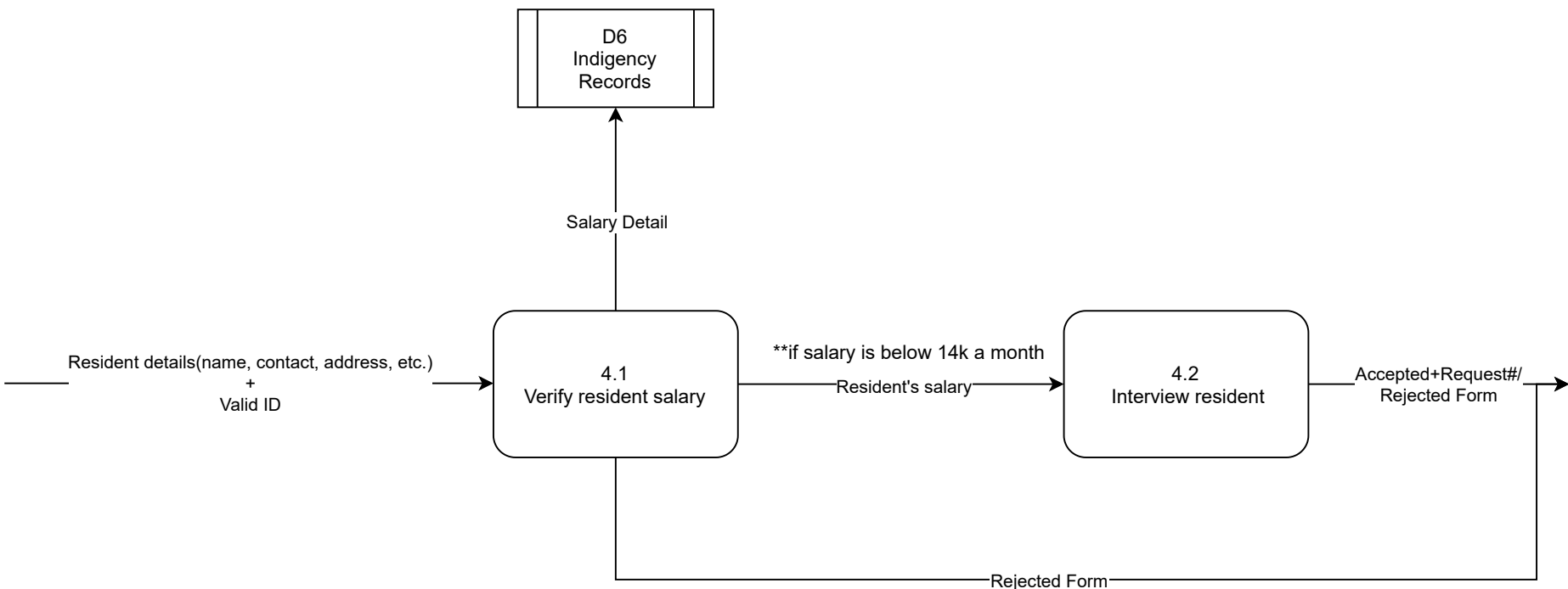
# Proposed Logical L1 Process 2.0



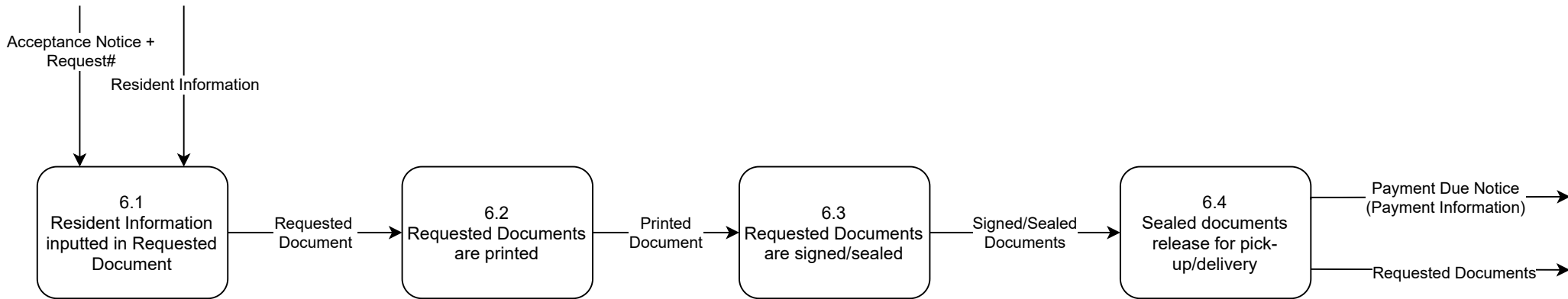
# Proposed Logical L1 Process 3.0



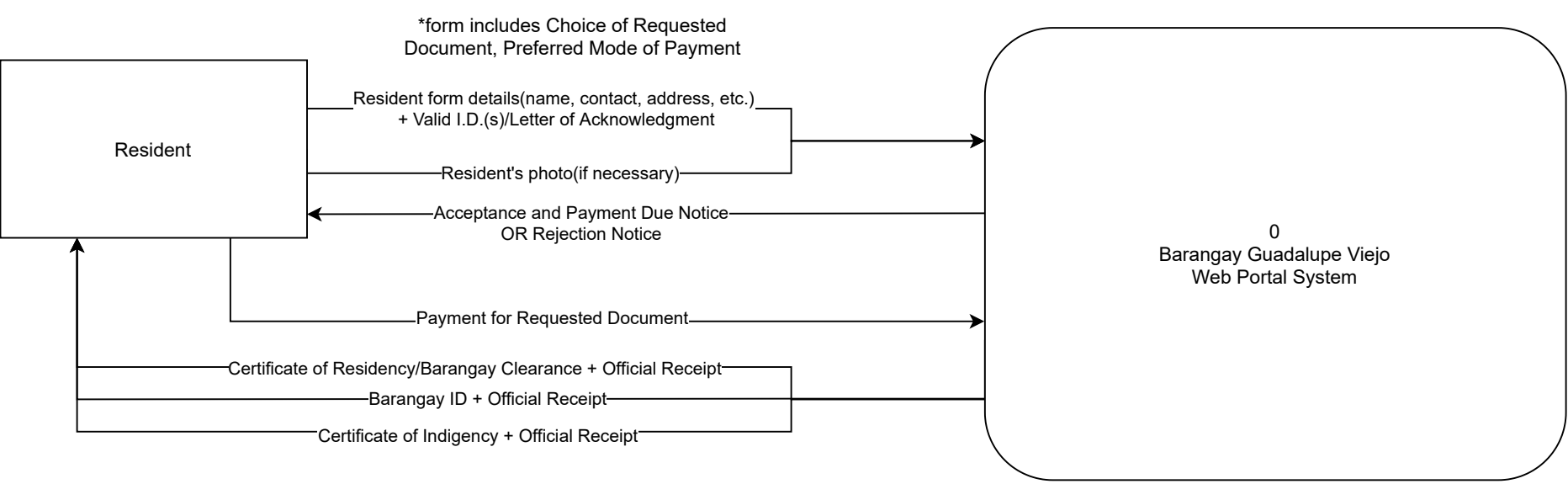
# Proposed Logical L1 Process 4.0



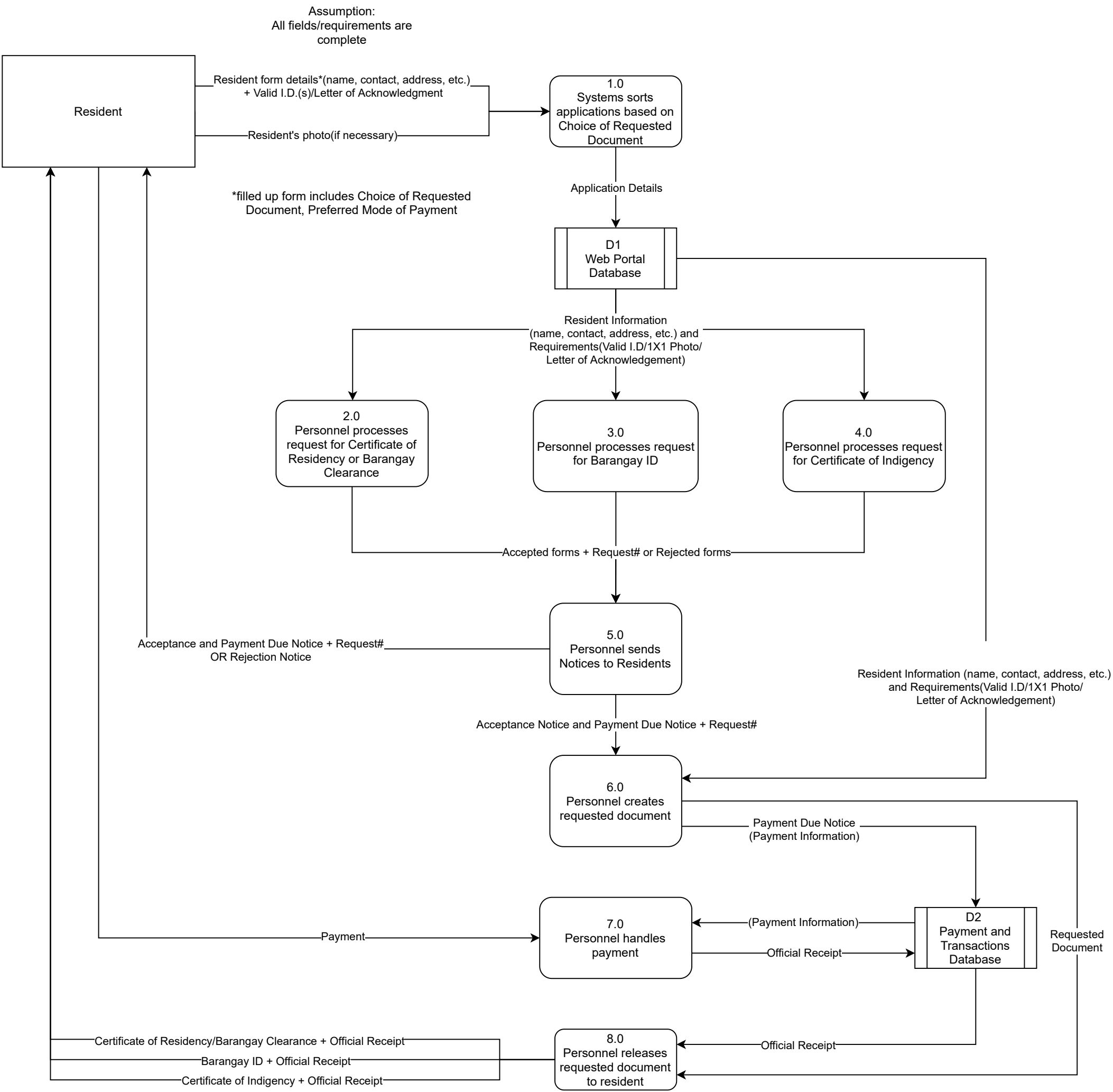
# Proposed Logical L1 Process 6.0



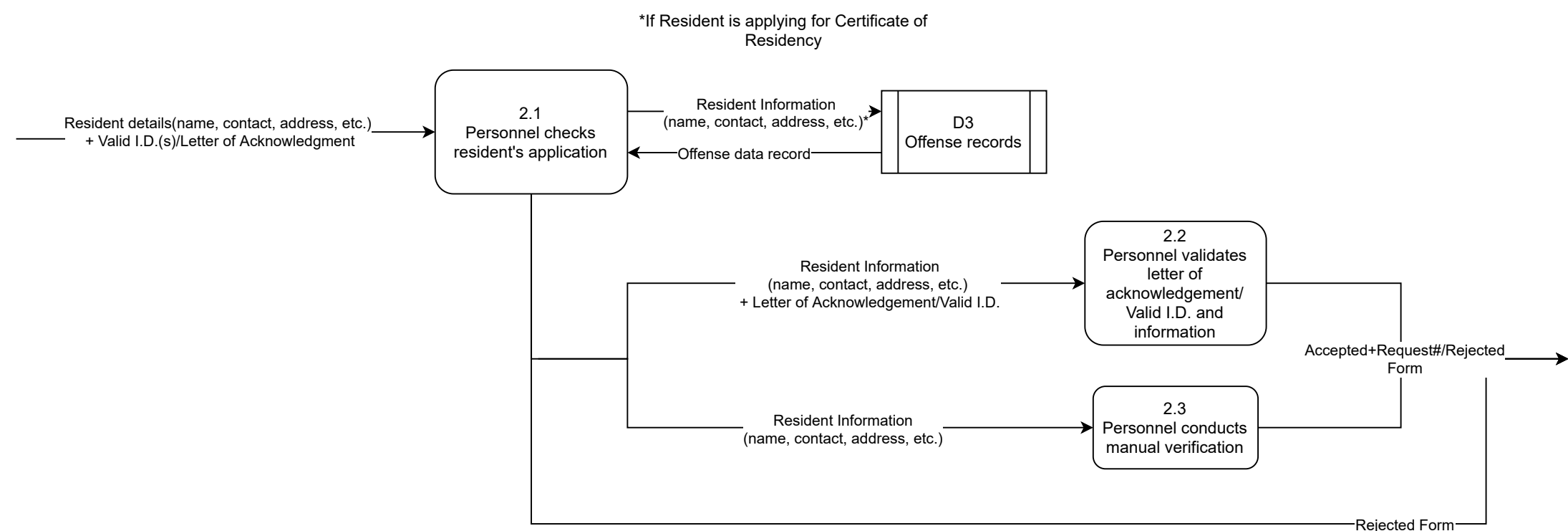
# Proposed Physical CLD



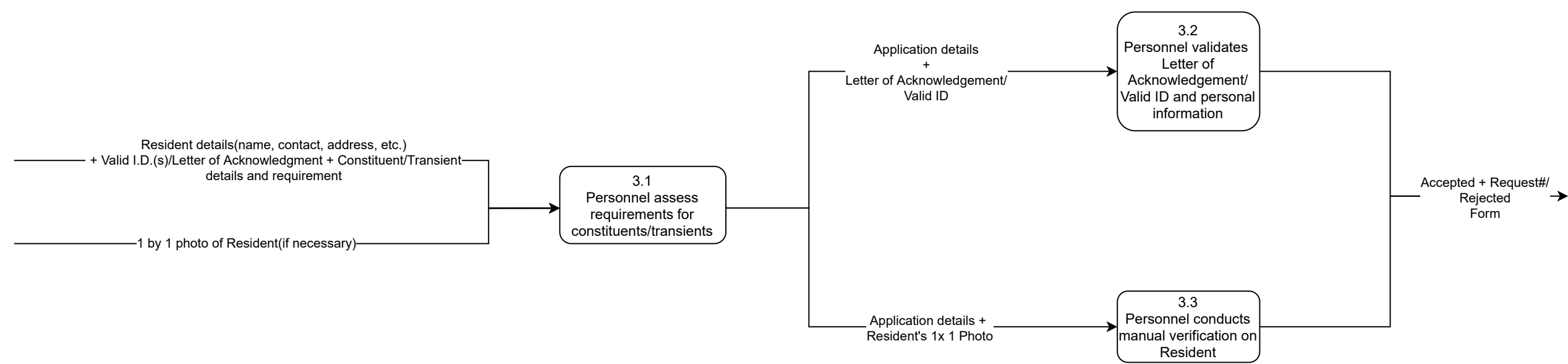
# Proposed Physical Level 0



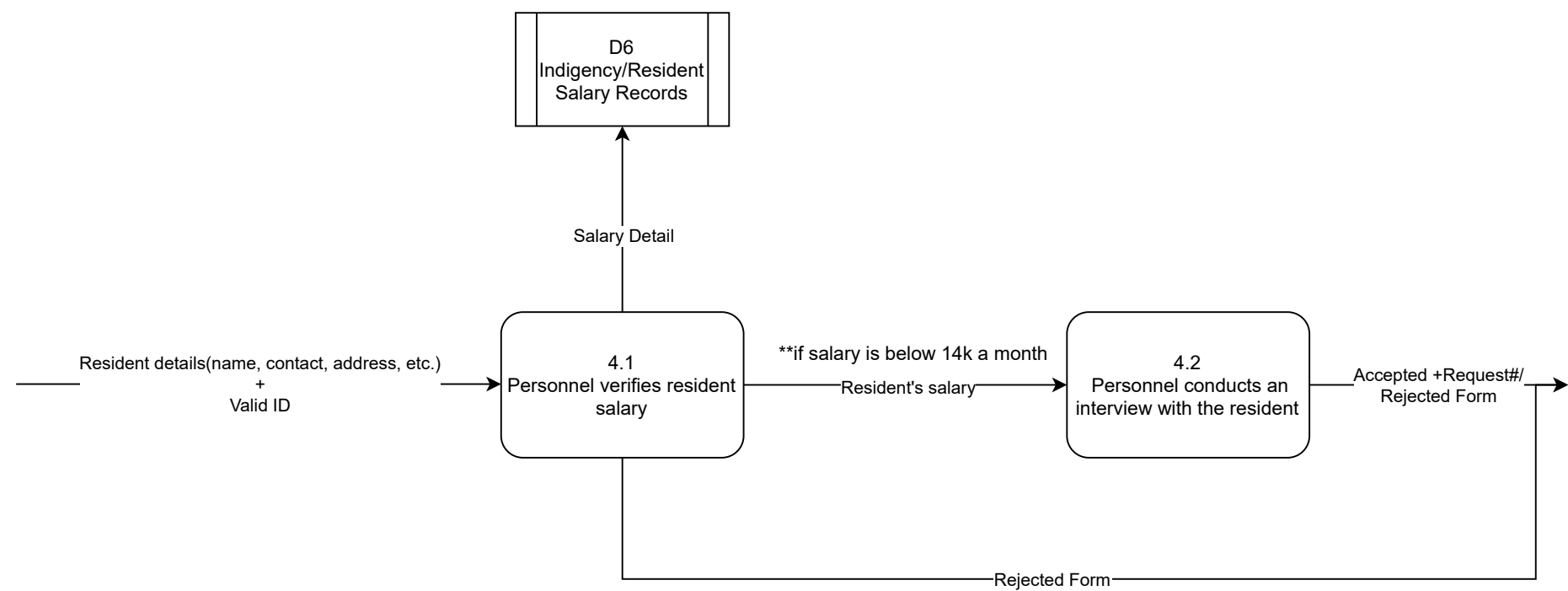
# Proposed Physical L1 Process 2.0



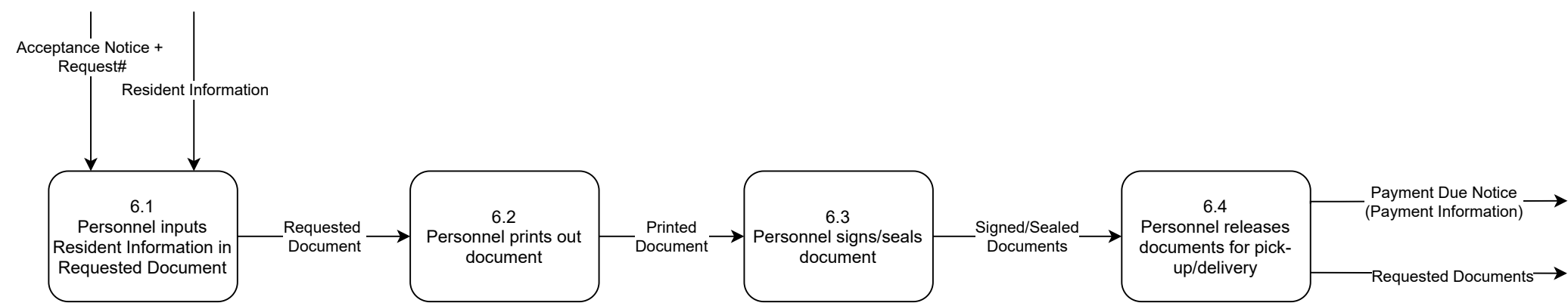
# Proposed Physical L1 Process 3.0



# Proposed Physical L1 Process 4.0



# Proposed Physical L1 Process 6.0



## List of Functional and Nonfunctional Requirements

### A. Functional Requirements

Req. no	Req. Name	Req. Description	Related Use Case/s	Priority
1	System should sort application forms.	The system should sort out all application forms based on the type of document (Barangay clearance/Barangay ID/Certificate of indigency) being applied for by the users. This would allow for the personnel to easily work on and classify each application based on the specifics needed for each document.	UC 4	High
2	System should notify accepted or rejected forms.	The system should notify the user if his/her form request was accepted or rejected. This is so that the user will know whether he/she will have to claim it or not.	UC 16	High
3	System should allow personnel to access data in the necessary parts of the process.	The system should allow personnel to access the data stored in the system to be able to process requests and create the document requested.	UC 22	High
4	System should allow personnel to update payment status upon notification for release of documents.	The system should allow the personnel to update the payment status of the user upon notification of payment so that they may prepare the release of the document. This is so that the system can keep track of those who have not yet paid the fee for the requested document.	UC 13	High



5	System should allow the user to request for an official document regardless of having an existing account in the system.	The system should allow for the users to request for a document regardless of having an existing account inside the system. It should automatically fill up the document's details if the user already has and is currently logged into an account upon the submitted request for a document. On the other hand, it should require the user to fill up the document's details itself if the user does not have an existing account.	UC 2	High
6	System should allow users to submit required documents as well as fill up any other necessary information inside the forms.	The system should allow for the users to upload any of the required documents to the website's system as well as input any other information asked for inside the forms for each official document.	UC 2	High
7	System should check if all fields are filled up/all needed files are there upon initial submission.	The system should check if all fields are filled up and that all needed files are there upon initial submission. This is so that no invalid forms enter the system to ensure efficiency in that the personnel work only with valid form submissions.	UC 4	High
8	System should allow personnel to update/edit residents'	The system should allow the personnel to update/edit the residents' information in case there was a mistake or the resident	UC 12	Medium

	information upon request.	changed their address/name/etc.		
9	System should allow for users to create their own accounts under the system.	The system should allow the users to create accounts for logging in. This will make requesting for documents more convenient as the system will already have their information ready.	UC 1	Medium
10	System should allow the viewing and passing of necessary and required documents among the personnel in charge of the process.	The system should allow the personnel to access information inputted and requirements submitted by the users in a database and pass it along parts of the process where it is needed.	UC 22	Medium
11	System should allow the user (resident and employees) to log in using an existing account.	The system should allow the user to use their existing credentials for their account to login to the system.	UC 8	Medium
12	System should have an option to create administrator accounts for the employees.	The system should allow for employees to create administrator accounts that can be used to manage the website's functions and capabilities.	UC 15	Medium
13	System should update users on the requested document's status.	The system should be able to update the user on where he/she is on the requirements process by giving them specific status.	UC 9/UC 17	Low
14	System should notify the user when payment is due.	The system should notify the user when the payment is due to serve as a reminder for paying the required amount.	UC 10/UC 18	Low

15	System should save records of all the requests of the users.	The system should be able to record all the details of the current and past requests for documents submitted by users.	UC 2	Low
16	System should allow the users to edit account information.	The system should allow the users to be able to edit all of their account's inputted information.	UC 11	Low
17	System should allow users to recover their account.	The system should allow users to recover their account by sending a password reset to their email.	UC 19	Low
18	System should allow for administrators to post any necessary announcements on the website.	The system should allow for the administrators to create and post any necessary announcements regarding the barangay and its processes on the website.	UC 20	Low
19	System should allow for users to view announcements posted by the barangay on the website.	The system should allow for the users to view the announcements posted by the barangay.	UC 21	Low
20	System should generate a unique request number once a request submitted is approved.	The system should generate a unique request number which the users can then use to view the status of their requested documents on the website once their request for that document has been approved.	UC 16	Low
21	System should allow for users to send in feedback.	The system should allow for the users to send in feedback through the Contact Us page found in the website.	UC 25	Low

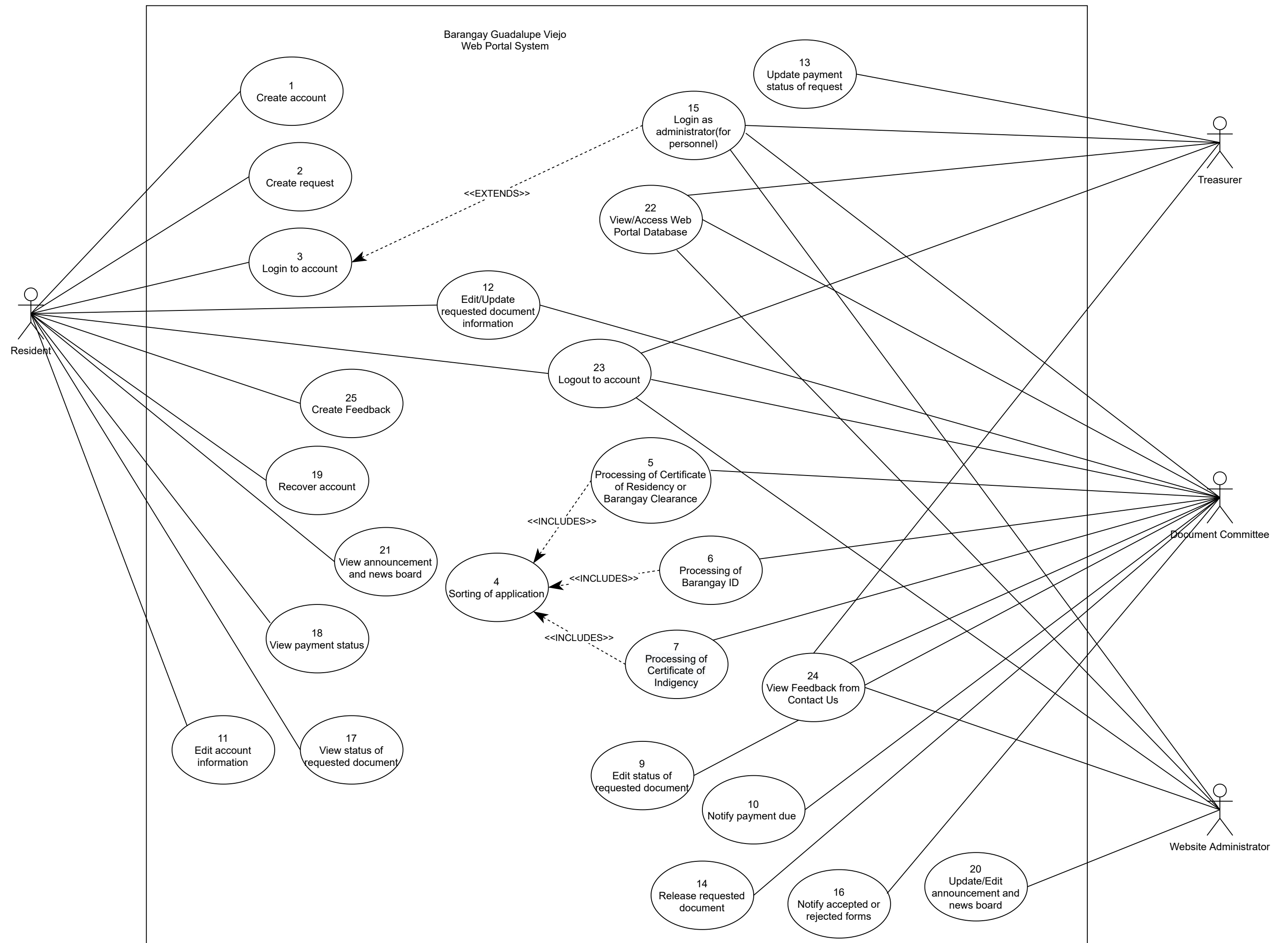
22	System should allow for the administrators to view sent in feedback by the users.	The system should allow for administrators to view the feedback sent in by the users from the Contact Us page of the website.	UC 24	Low
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## B. Non-Functional Requirements

Req. No.	Req. Name	Req. Description	Priority
1	System should sort requests quickly.	The system should finalize sorting the documents in less than 2 seconds	High
2	System should be law-abiding.	The system must follow the government's rules and regulations.	High
3	System must be accessible at all times.	The website must be open all 24 hours, all 7 days a week.	High
4	System should display the right format of documents.	The system must show the right proportion per edited document when printed. ID 3.88" x 3.37" and Paper Documents 11" x 8.5"	High
5	System should encrypt user information.	The system must encrypt user information when given the option	High
6	System should be usable universally.	The website should be portable, a change in OS won't create any problem.	High
7	System should be able to process requests quickly.	After filling up a request for a document, the system should send the request to the staff in less than 5 minutes.	High
8	System should load quickly.	The system should load in less than 1 second when the number of simultaneous users < 100.	High

9	System should have a consistent user interface.	The system's style of the user interface for the creation of each document must be the same all throughout.	Medium
10	System should allow users to verify accounts.	Users shall be prompted to verify their account first.	Medium
11	System should follow a flow for inputs.	The system should prompt the user to input their password after editing their information	Medium
12	System should update changes quickly.	The system must be able to update the status of each individual, 1 minute after a change of process	Low
13	System should follow the main color palette.	When accessing the site, the main colors of the site must be blue, white and black	Low
14	System should send updates to users as soon as possible.	Emails or Texts messages for updates should be sent in less than 10 minutes.	Low
15	System should have a static navigation bar.	Whenever scrolling, the navigation bar should be fixed on top.	Low

# Use Case Model



## User Interfaces

### INPUTS

#### Sign-In Screen

The image shows a web application interface for a local government website. At the top, a dark blue header contains the website name, navigation links (Home, Contact, About Us), and buttons for Sign In and Register. The main content area is light gray with a repeating watermark of a local government seal. A dark blue modal box is centered over the page, titled 'SIGN IN' with a close button. It contains input fields for Email and Password, a 'Forgot Password? Click here!' link, a yellow 'Sign In' button, and a 'Create New Account' link. The background features a 'Welcome to Guadalupe' banner, an 'Announcements' section with placeholder text, and a 'Services' section with buttons for requesting various documents (Barangay I.D., Clearance, Certificate of Residency, Certificate of Indigency, Barangay Certificate) and a 'Check Ongoing Request' button.

Website Name Home Contact About Us Sign In Register

Welcome to Guadalupe

Announcements

Services

Request for Barangay I.D.

Request for Barangay Clearance

Request for Certificate of Residency

Request for Certificate of Indigency

Request for Barangay Certificate

Check Ongoing Request

**SIGN IN**

Email

Password


Forgot Password? Click [here!](#)

Sign In

[Create New Account](#)

#### Use Case # 3

## Registration Screens

 Website Name

[Home](#) [Contact](#) [About Us](#) [Sign In](#) [Register](#)

### Register an account

01 Personal Details ☒

02 Account Info ☐

03 Address ☐

04 Submit ☐

Last Name

First Name

Middle Name


Birth day

Age

Nationality

Civil Status

1x1 Photo  

  
Click or drag a file to this area to upload

Sex

Civil Status

[Next](#)

 Website Name

[Home](#) [Contact](#) [About Us](#) [Sign In](#) [Register](#)

### Register an account

01 Personal Details ☒

02 Account Info ☒

03 Address ☐

04 Submit ☐

Email

Contact Number

Password

Confirm Email

Confirm Password


[Back](#)

[Next](#)

## Use Case # 1



## Application Screen

 Website Name [Home](#) [Contact](#) [About Us](#) [Sign In](#) [Register](#)

### Barangay ID (Bonafide)

[Back](#)

#### Personal Details


Last Name

First Name

Middle Name

Age

1x1 Photo  

  
Click or drag a file to this area to upload

Birthdate  
 |  |

Sex  
 ▼

Nationality

Civil Status  
 ▼

Email

Contact Number

#### Address

House Number - Blk - Street


City

Barangay

Province

Zip Code

Government ID ▼


  
Click or drag a file to this area to upload.

[Next](#)

[Back to top ↑](#)

Use Case # 2, 4, 6

## Contact Us Screen

 Website Name

Home Contact About Us [Sign In](#) [Register](#)

# Contact Us

### Send us a message

Last Name

First Name


Email


Message


Submit

### Have any questions?

Feel free to contact us!


 Lorem Ipsum

 Lorem Ipsum

 Lorem Ipsum

Use Case # 25

## Document Tracking Screen

 Website Name [Home](#) [Contact](#) [About Us](#) [Sign In](#) [Register](#)

### Document Tracking

#### Document Status

Document Request Number:

Document Requested: DOCUMENT NAME

Current Status of Document: Document STATUS

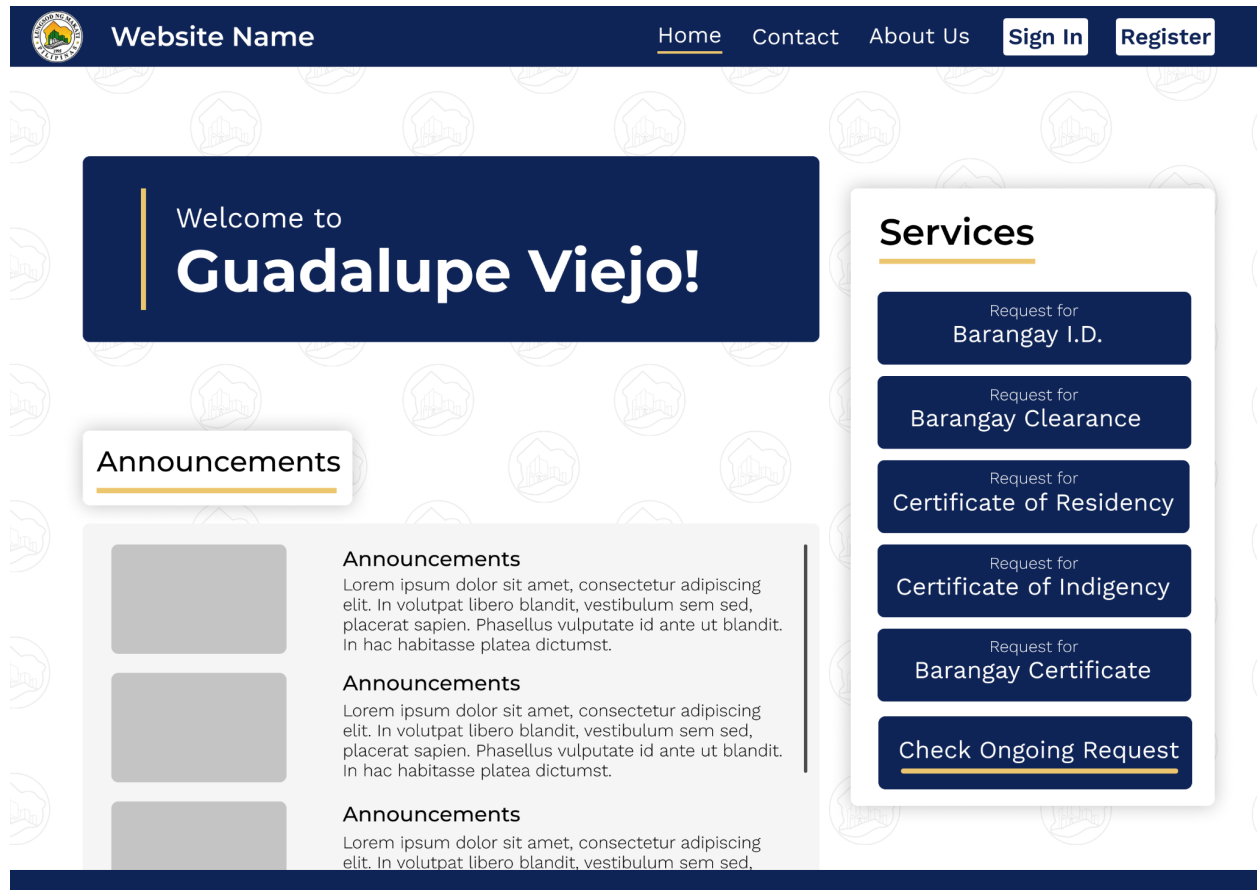
Additional Details: Additional Details

[Back](#)[Submit](#)

Use Case # 17, 18

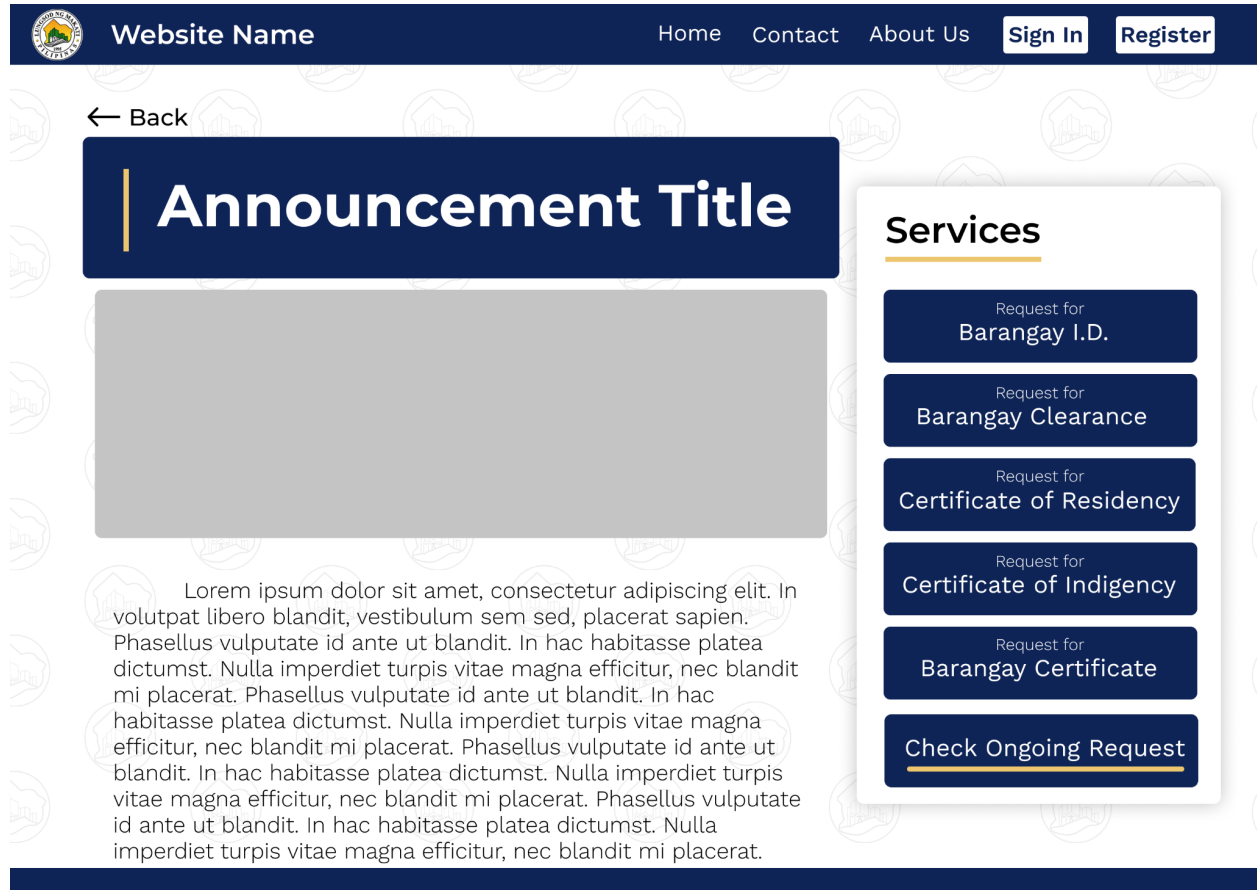
## OUTPUTS

### Landing Screen



### Use Case # 21

## Announcements Screen



## Use Case # 21