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# Haweytak

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# 1 Project Overview

## 1.1 Project Description

Haweytak is an application that contains all your governmental documents, such as your Passport, ID, Medical File, Taxes etc. It also reminds you if you have any unpaid taxes or if any renewal for a document is needed.

## 1.2 Project Stakeholders

Stakeholder	Description
Citizens	Users will enter their information and their medical record and they will login using their national ID.
Public Security Directorate	They will use it to identify citizens and they can update citizens status
Medical sector	Will use medical records of the citizens and they will have access on the medical history of citizens

## 1.3 Project Scope

Project Title	Haweytak
Project Implementation	<p>This project aims to make our life easier, in order to do that, we must make a barcode which contains all our data and information. In addition to that, we should make this barcode at high level of safety to avoid hacking and technical issues. And to have our customers satisfied, we could add a reminder in the application that help users to remember the dates when their registration, legal papers expire and due payments.</p>
Project Scope Description	<p><u>Within Scope:</u></p> <ul style="list-style-type: none"> <li>❖ The Application must be able to store user's official documents</li> <li>❖ The Application must be safe and secure</li> <li>❖ The Application should allow official government organizations to access needed documents after scanning the barcode</li> <li>❖ The Application should work properly and smoothly</li> <li>❖ The Application should remind users of upcoming due payments</li> <li>❖ The Application should reminder users of upcoming expiry dates of legal papers</li> <li>❖ The Application should have the user's medical file</li> </ul> <p>❖</p> <p><u>Out of Scope:</u></p> <ul style="list-style-type: none"> <li>❖ The Application won't store user documents associated with the court of law</li> <li>❖ The Application won't remind user of due payments in non-governmental organizations.</li> </ul>

<b>Constraints</b>	The Development on the project will depend on the team member's free time, as they are still students in the university.
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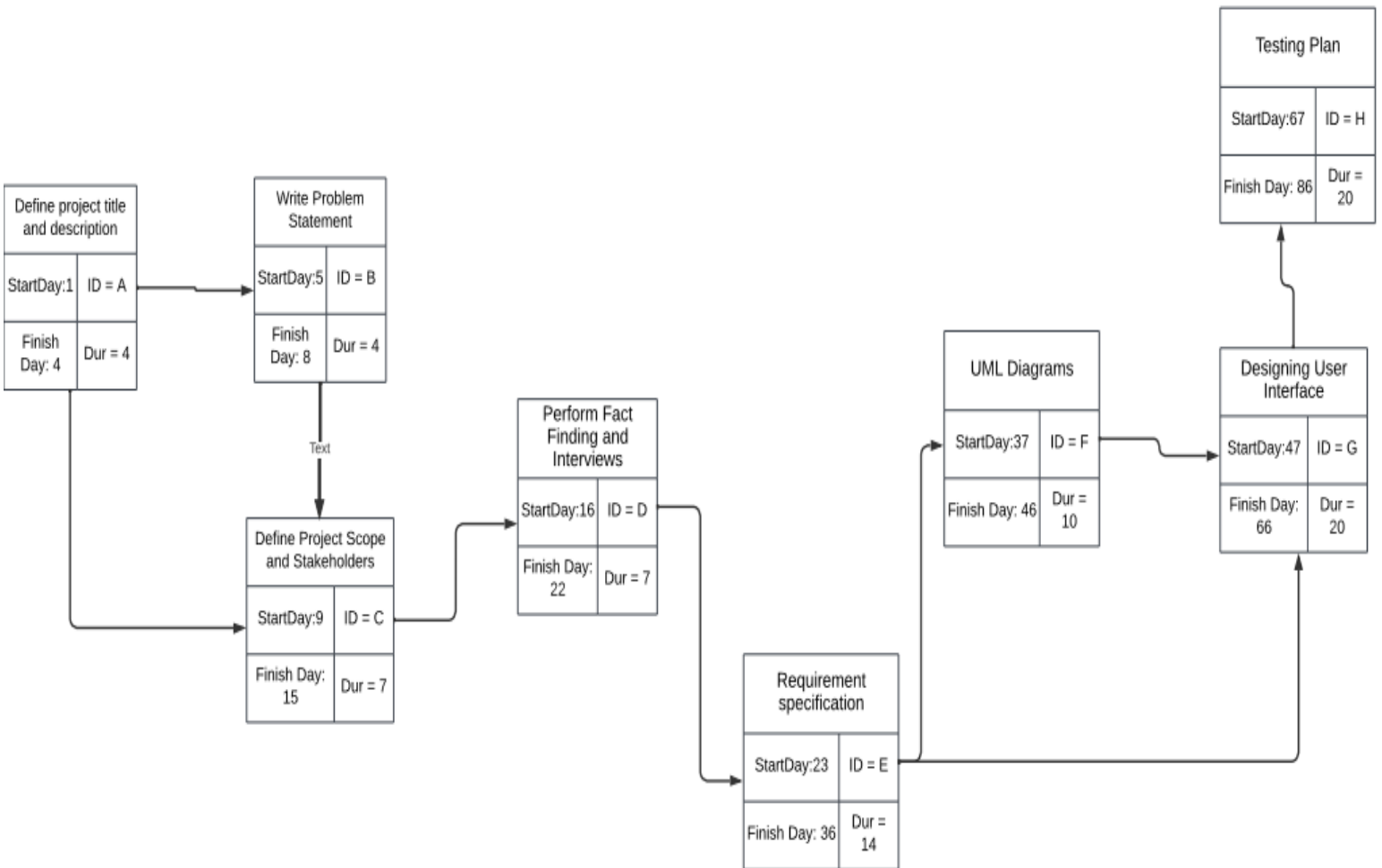
## 1.4 Project Plan

### 1.4.1 Project Schedule

Task ID	Task Name	Task Description	Predecessors	Duration(Days)
A	Define Project Title and Description(Overview)	Discuss and research to find suitable title and an overview of the system.	.....	4
B	Write Problem Statement	Discuss issues related to the idea and how we intend to resolve these issues.	A	4
C	Define Project Scope and Stakeholders	Discuss Project constraints and extent.	A , B	7
D	Perform Fact Finding and Interviews	Conduct interviews and questionnaires to collect data.	C	7
E	Requirement specification	A detailed list of the system's functional, non-functional, and user requirements.	D	14
F	UML Diagrams	Design and create multiple UML diagrams to show system's features and design.	E	10
G	Designing User Interface	Planning and designing user Interface for an application.	F,E	20
H	Testing Plan	Conduct tests to Measure and evaluate the product.	H	20

## 1.4.2 Project Pert Chart

Critical Path : A-B-C-D-E-F-G-H



## 1.5 Fact Finding Techniques

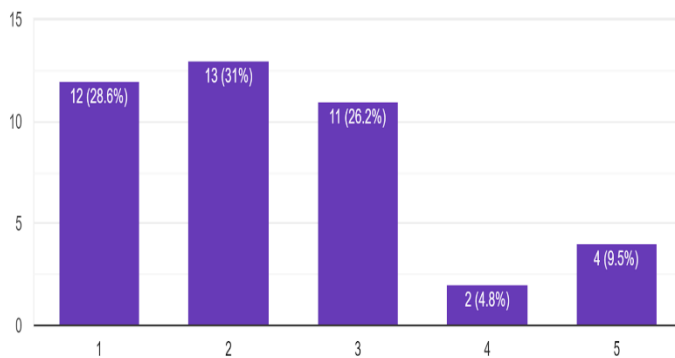
### 1.5.1 Questionnaire Questions

This is the summarization of the main questions used in the questionnaire.

In linear scales (1 is the least option, 5 is the max option).

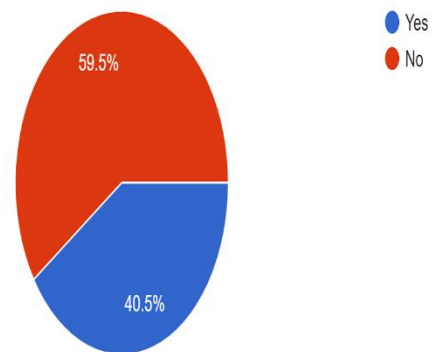
How often do you forget your ID at home?

42 responses



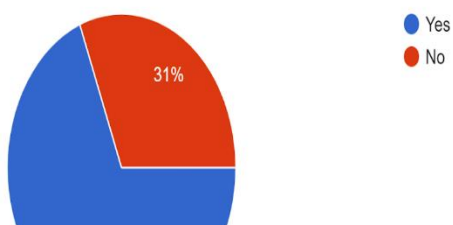
Have you ever gotten into trouble for forgetting your driver's license at home?

42 responses



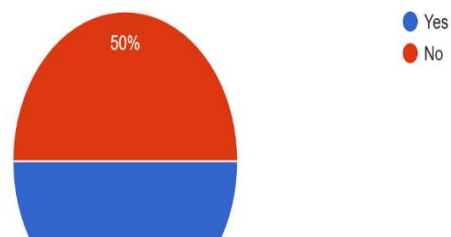
Do you have trouble recalling allergies / medicine names to doctors?

42 responses



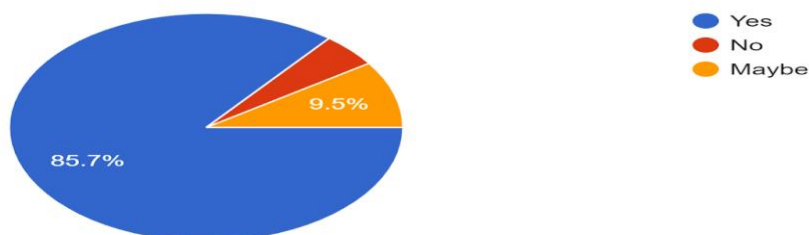
Have you ever forgotten to pay taxes / due payments to government organizations?

42 responses



Would it be helpful if you had an official digital copy of your medical file?

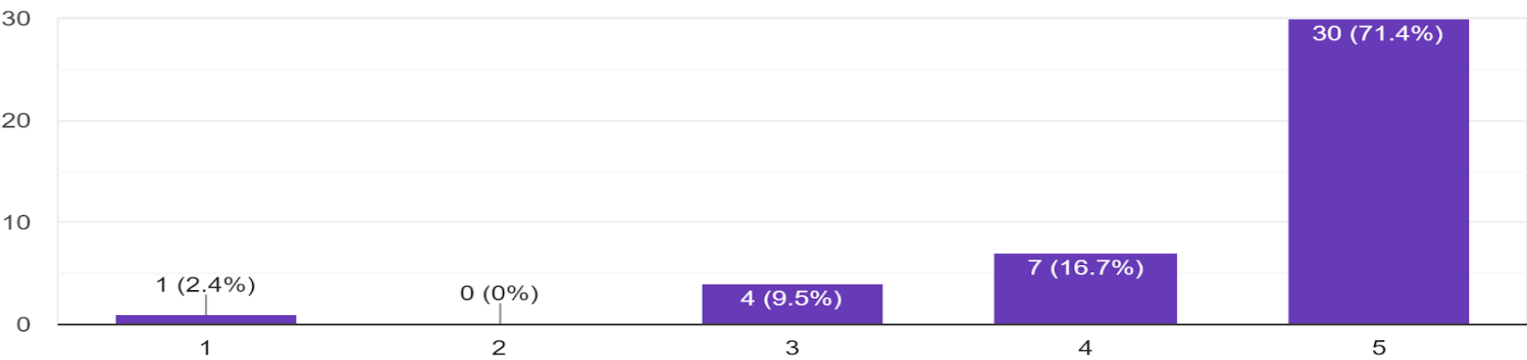
42 responses





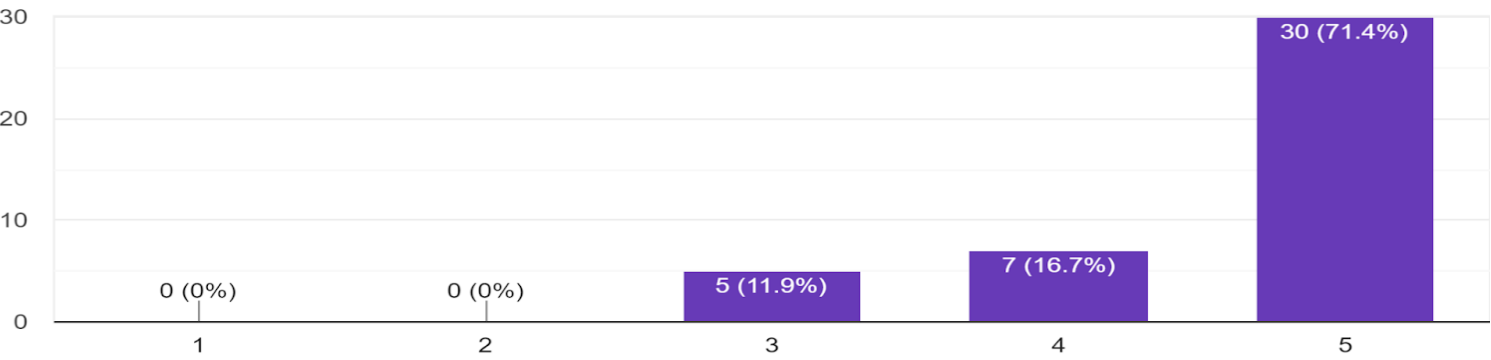
How helpful would it be if you had an official digital copy of all your personal identification Documents?

42 responses



If an application was to be developed based on the project description , How helpful would such an application be?

42 responses



## 1.5.2 Interview Questions

Here is the list of interview questions asked:

1-After hearing our project description, what is your first impression of our project?

2-have you ever lost your wallet? Or you're ID card?

3- Are you one of the people who often forget their identity at home?

4-Have you ever forgotten the expiry date of your car license? And what happened to you after that?

5-How many times were you asked for your medical file? And your medical file was not with you

6. Do you think it's helpful if an application reminded you of due payments and expiry dates of legal papers?

7. Do you think such a project is needed?

8-Do you have any suggestions for our project?

9-Do you have any comments on our project?

## 1.6 Requirements

### 1.6.1 Functional Requirements

ID	Functional requirement	Description	Priority
FR1	Log-in	Committee members will be able to enter their credentials to gain access to the system, they will need to enter an OTP if they have that option enabled.	Essential
FR2	Forgot password	Users will be able to request their password to be reset, in which case they will receive an email allowing them to do so.	Essential
FR3	Show ID	Users will be able to see their ID details if they don't want to carry their id around with them.	
FR4	Show Driving Licenses	Users will be able to see their driving licenses details if they don't want to carry it around.	
FR5	Health ID	Users will have their medical history and blood type and their diseases if they have any.	
FR6	Payments	Users will be able to see their violations if they have any and they can check periodically.	

## 1.6.2 Non-Functional Requirements

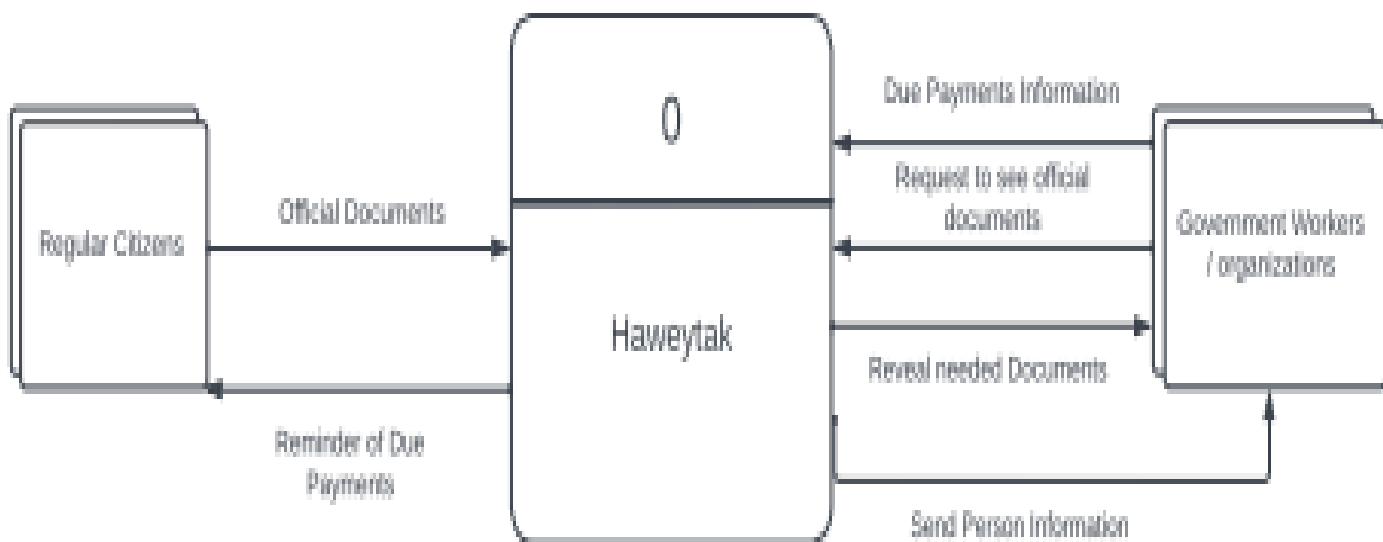
ID	Requirement	Description
NFR1	Security	The system will provide high-level encryption of all the data in the database.
NFR2	Performance	We will use the latest programming languages. That will give us a high performance.
NFR3	Readability	The code will be documented and chunked into parts so that anyone can understand what each segment means, split into different components that will enhance readability.
NFR4	Reliability	The system will handle multiple requests without crashing or any sort of bugs or delays with the help of testing software during development.
NFR5	Scalability	The system should handle many users and requests and can be accessed from any device anywhere in the world.
NFR6	User Interface/Ease-of-use	The interface of the website will be user-friendly and rich with functions while being easy to use. Furthermore, it is beautiful and eye-catching to any user.
NFR7	Availability	The system will be available every hour and every day of the week, meaning that it will be available 24/7.

## 2 Diagrams

### 2.1 Data Flow Diagrams

#### 2.1.1 Context Diagram

### Context Diagram



### 2.1.2 Diagram 0

Regular citizens scan their official documents into the application, the application then has to verify the documents and store them in the database.

The application retrieves a user's information from the database, and sends it to the governmental organization, the government organization sends back the due payments for the user, the application stores this information in the database, and proceeds to remind the user of due payments if there is any.

The government organization / worker who have access to user documents, can request to see a person's information, the information is retrieved from the database and revealed to the organization/worker

**Diagram 0**



### 2.1.3 Process Description

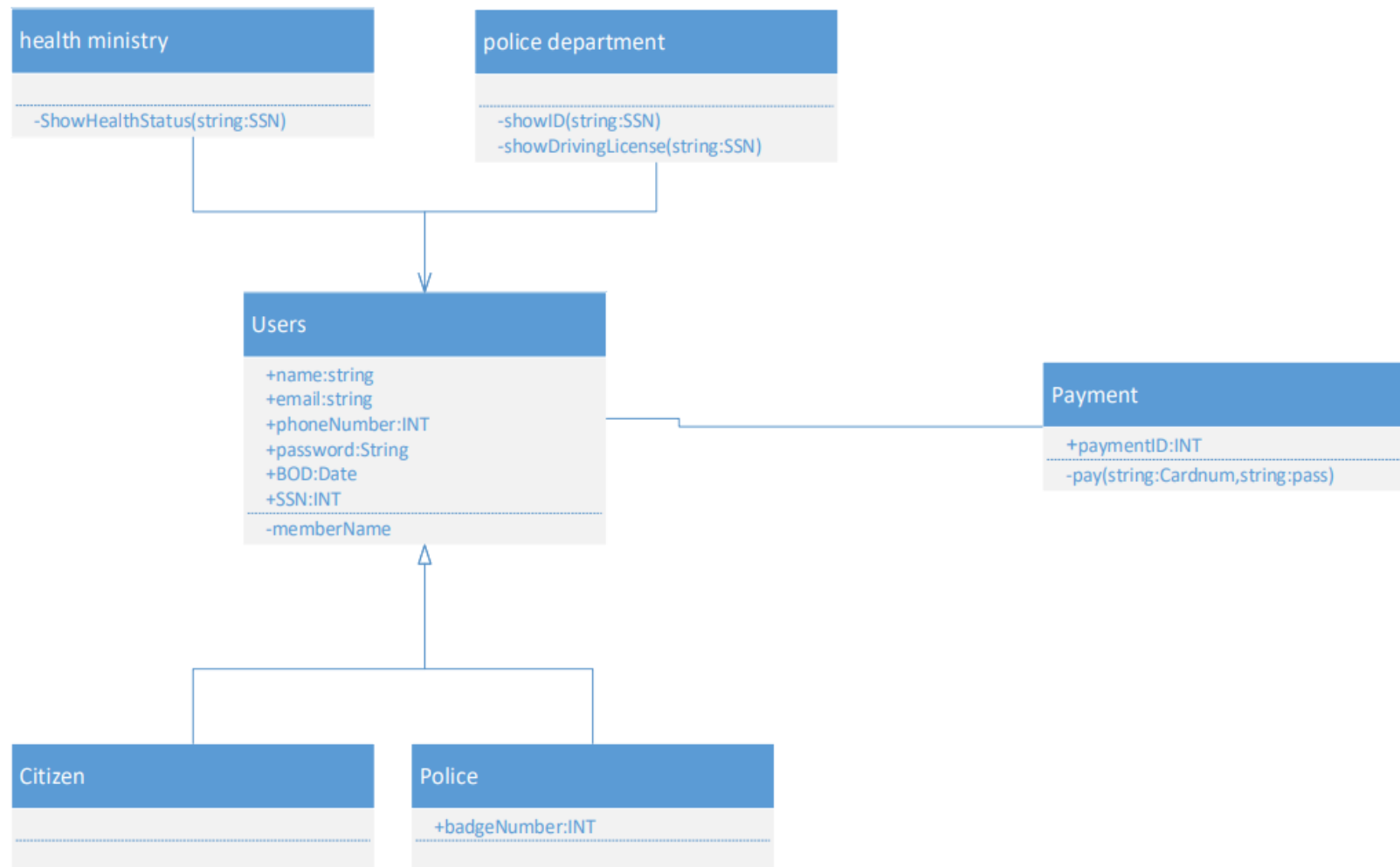
#### 1. Verify Official Documents Process :

**IF** ( User document ID doesn't exist in Government's Database) **THEN**  
Deny Documents and send denial message to user

**ELSE** Accept Documents and send documents to database

Conditions	1	2	3	4
ID doesn't exist	N	Y	N	Y
ID does exist	N	N	Y	Y
Actions				
Deny Documents		X		
Accept Documents			X	

## 2.2 Class Diagram





## 2.3 Use Case Diagram

