

fill the void.



Porto Oculto

System Requirement Specification

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System Requirement Specification

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1. Introduction

1.1. Purpose

Porto Oculto has the purpose of giving insight to the inhabitants of Porto, on the state of their city. It focuses not only on the newly and completely restored buildings, but also on the vast number of edifices with architectonic value that are abandoned/degraded, waiting to get a new purpose, and also with empty properties.

1.2. Scope

For the current phase of the project, it will concern the entire council of Porto, which concerns about 250 000 inhabitants. In this phase, it will be possible to consult and add buildings from this region to the database. The product, however, contemplates this expansion, expecting to reach the whole metropolitan area in a near future,

1.2.1. Vision

What is your purpose for creating the product?

The product was created with the main objective of giving insight to the inhabitants of Porto, Portugal, on the state of their city. It focuses not only on the newly and completely restored buildings, but also on the vast number of edifices with architectonic value that are abandoned/degraded, waiting to get a new purpose.

The second objective is to reintroduce them to the possible investors - individuals or groups who have the resources to revamp these buildings. Porto Oculto is capable of presenting information about these constructions, including their picture, state of degradation, description, location, etc. and possesses enough



information to make a visit to the building a formality and not a necessity.

1.2.2. Target Group

Which market or market segment does the product address?

- Architects: The *Porto Oculto* application targets architects, and with it they would have the opportunity of discovering buildings with architectonic value in the city, and/or possibly gain knowledge for future projects. The information provided by the application targets the architects' general needs.
- Real Estate Agencies: With the promotion of buildings and the identification of new ones, real estate agencies are attracted to this application in two major ways They can witness the valorization of their assets through the referencing and search of information on them through the application; Through the usage of the application to scout for new potential business assets.

Who are the target users?

- Local Residents: If awareness is raised regarding the application's potential to speed up the rehabilitation of the abandoned buildings near them, local city residents would have interest in cataloging the abandoned buildings around them to the application, since it might help boost their local economy, increase the security of the areas around them or simply from an aesthetic point of view.
- Architects or Architect firms
- Real Estate Agencies

1.3. References

IEE830-1998 Standard - structure of this document follows the
international format of software requirements specification.
https://draw.io/ - draw.io web-tool was used to build UML diagrams



1.4. Overview

This document will now focus on describing all the components of the application. This implies that will explain which functionalities should be implemented, together with their restrictions and main objectives. It will also detail the rationales behind the choices taken and the results of all the elicitations processes.

2. Overall description

2.1. Product perspective

"Porto Oculto" is a system to identify and share different properties with architectonic interest, within the map of Porto, Portugal. This system is composed in three big components:

- 1. A front-end: Smartphone running the "Porto Oculto" application that allows to create and operate on the properties;
- 2. A back-end: A database to store the properties using Firebase database;
- 3. Google Maps external service, imported through an API to have a map with the properties;

The mobile application will run on both Android and iOS operating systems.

2.1.1 System interfaces

This section specifies the logical characteristics of system components and its interfaces. An activity diagram of the Porto Oculto system demonstrates control flow of the system.

2.1.1.1 Smartphone App

- Operation systems:
 - o Android;
 - o IOS;

2.1.1.2 Database

Firebase:



2.1.2 Main Activity Diagram

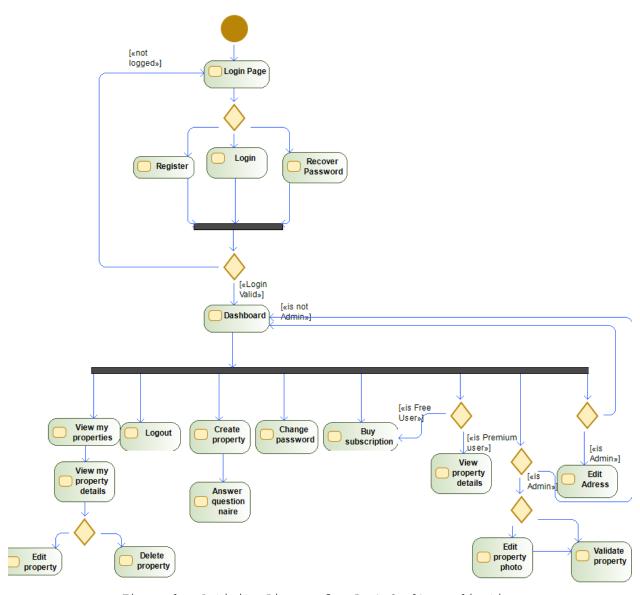


Figure 1 - Activity Diagram for $\underline{\textit{PortoOculto}}$ application

2.2. Product functions;

2.2.1. Authentication requirements (UC1, UC2, UC3, UC4)

R1.1. The system should allow new people to register;



- R1.2. The system should have a login system (Email and Password);
- R1.3. The system should allow the user to login by his Facebook account;
- R1.3. The user should introduce a valid email and password to login;
- R1.4. The system should allow users to recover their forgotten passwords by inserting his email account;
- R1.5. The system should send an email with a new password when a user wants to recover his forgotten password;
- R1.5. The system should allow users to edit their passwords;

2.2.2. Property (usage) requirements (UC5, UC7, UC8, UC11, UC12)

- R2.1. The system should allow the user to add a new property;
- R2.2. The user should add a photo and specific details about the property (year of construction, owner, state of property (good shape, bad shape, in ruins, devolute));
- R2.3. The system should ask the user if he wants to answer a questionnaire to add more information about the property;
- R2.4. The system should allow the user to view his own properties;
- R2.5. The system should organize the list of properties by date of creation;
- R2.6. The system should allow the user to edit his own properties;
- R2.7. The system should allow the user to delete his own properties;
- R2.8. The system should allow the user to view a map of Porto in his dashboard;
- R2.9. The system should show all of the available properties in the map with the colour corresponding to the type (state) of property;
- R2.10 The system must make the property available only after its validation.
- R2.11 The system should allow the user to add a new photo to any property;
- R2.12 The system should allow the non-premium user to see only the photos and the address of the other user' property.

2.2.3. Premium user requirements (UC10, UC15)

- R3.1. The system should allow the user to become a premium user by buying a subscription;
- R3.2. The system should allow the user to choose a method of payment from the ones available (MBWAY, PayPal,etc.);



- R3.3. The system should allow the premium user to view the details of any property;
- R3.4. The first released system should have premium account functional disabled, however the system should allow to switch on this functional.

2.2.4. Admin requirements (UC6, UC13, UC14, UC16)

- R4.1. The system should allow the admin to validate or reject every property that is created by a user;
- R4.2. The system should allow the admin to view the list of users of the system;
- R4.3. The system should allow the admin to edit a certain address in the map;
- R4.4. The system should allow the admin to edit a photo of a property;

2.3. Constraints

Software developers should take notice of the EU General Data Protection Regulation (GDPR) to prevent the enterprise from being fined.

3. Specific Requirements

3.1 Quality Requirements

- RQ7.1-Usability
- RQ7.1.1 The system interface should be intuitive.
- RQ7.1.2 The system should be fast going through menus.
- RQ7.1.3 The app should take less than 3 minutes to install.
- RQ7.2-Maintainability
- RQ7.2.1 The system should be easy to maintain.
- RQ7.2.2 The system should have a way to a non-programmer worker (admin) maintain the properties updated;



RQ7.3-Compatibility

RQ7.3.1 - The Smartphone App should be compatible with:

- IOS 10.0 or higher;
- Android 7.0 or higher;

RQ7.4-Reliability

RQ7.4.1 - The system should be up 99 of 100 hours on IOS.

RQ7.4.2 - The system should be up 95 of 100 hours on Android.

RQ7.4.3 - The system should be able to recover itself in 2 hours.

RQ7.5-Performance

RQ7.5.1 - Response time on the Smartphone App should take less than 3 seconds.



3.2. Use Cases

3.2.1 UC1: Register New User

Section	Content
Identifier	UC1
Name	Register new account
Priority	High
Criticality	Very High
Short description	User can register a new account, providing name, email and password. User can also register using Facebook account.
Use case level	User
Goal(s)	Create a new account to access the main functionalities of "Porto Oculto".
Primary actor	User
Other actors	None
Precondition	The user accepted the terms and conditions
Postcondition	The user account was verified and created with success allowing the user to login the system.
Result	User is redirected to his highlights page.
Main scenario	 User accesses the initial page of the platform and clicks on the sign up button. The user fills the camps with his name, email and password.



	 The user presses the confirm button. System sends an e-mail with a validation link; User clicks on the validation link; System informs user of the success and redirects user to his highlights page.
Alternative scenarios	1. The user uses Facebook login and is redirected to the Facebook API login process.
Exception scenarios	 The system checks if the email is unique. If it isn't it should send a message. The system checks if the email has a format type of XXXX@XX.XX and in case it doesn't it shows a message below the field and asks the user to change. The system checks if the password has at least 6 characters and in case it doesn't it shows a message below the field and asks the user to change. User cancels registration and is redirected to the login page.
Qualities	-
Relationships to other use cases	UC2 - User must be registered previously to login.

Section	Content
Topic	Account registration
Related acceptance tests	AT-1, AT-2



3.2.2 UC2: Login

Section	Content
Identifier	UC2
Name	User Login;
Priority	High
Criticality	High
Short description	User can login to the platform, using his email and password.
Use case level	User
Goal(s)	Start using the platform
Primary actor	User
Other actors	None
Precondition	User must have a registered account in the system. The user accepted the terms and conditions.
Postcondition	System records user logins action.
Result	User is redirected to search games available for trade page.
Main scenario	 User accesses the initial page of the platform and enters his e-mail and password to login. System validates if user exists in Database, and if password matches. The user receives a success message, and it is redirected to the highlights page.
Alternative scenarios	1. The user uses Facebook login and is redirected to the Facebook API login process.



Exception scenarios	1. E-mail or password are incorrect. a. System alerts the user and tries again when user inserts a valid email or password.
Qualities	-
Relationships to other use cases	UC3; UC5UCx - the user must be logged in to perform the actions described in these use cases. UC1 - the user must have a registered account, in order to login the system;

Section	Content
Topic	Login service
Related acceptance tests	AT-3, AT-4

3.2.3 UC3: Edit Password

Section	Content
Identifier	UC3
Name	Edit Password;
Priority	Medium
Criticality	Very High
Short description	Users can change their password.
Use case level	User
Goal(s)	Provide the user the possibility to



	use better for them password
Primary actor	User
Other actors	None
Precondition	User must be logged in the system.
Postcondition	User have new password
Result	User can sign in using new password
Main scenario	 User accesses the edit profile, available through his menu. User clicks on "Edit password" button. User inserts the existent password and the new password, respecting the password requirements. The System registers the new password. The user receives a success message, and it is redirected to his dashboard.
Alternative scenarios	-
Exception scenarios	 User accesses the edit profile, available through his menu. User clicks on "Edit password" button. User inserts the existent password and the new password, not respecting the password data-type requirements. User receives an error message.
Qualities	-
Relationships to other use-cases	UC2;



Section	Content
Topic	Password change
Related acceptance tests	AT-5, AT-6

3.2.4 UC4: Recover Password

Section	Content
Identifier	UC4
Name	Recover Password;
Priority	High
Criticality	Very High
Short description	Users can recover their password.
Use case level	User
Goal(s)	Recover a password that the user doesn't remember.
Primary actor	User
Other actors	None
Precondition	Trader must not be logged in the system.
Postcondition	System saves into Database, the new password.
Result	User gets a different password, and it's redirected to report center.
Main scenario	 User accesses application; User clicks on "Forgot my password" link;



	 User inserts his email on the field and clicks "Send email"; System sends an email with a message asking the user to quickly change the password; User logs in to the system with the new password;
Alternative scenarios	-
Exception scenarios	 User cancels the action by clicking on login or register button;
Qualities	-
Relationships to other use-cases	<pre>UC2 - The user must not be logged in the system;</pre>

Section	Content
Topic	Password recovery
Related acceptance tests	AT-7

3.2.5 UC5: Create property

Section	Content
Identifier	UC5
Name	Create property;



Priority	High
Criticality	High
Short description	User can insert a new property with a photo and details about the property;
Use case level	User
Goal(s)	Share a new property with architectonic interest or a property not in a good shape.
Primary actor	User
Other actors	None
Precondition	User must have a registered account in the system; User must allow the GPS location to be used by the application;
Postcondition	System stores the new property in the database; Property goes to a list of properties to be validated by admin;
Result	User is redirected to a page with properties created by the user;
Main scenario	 User clicks on "create property" button; User confirms the address, according to the location; User takes a photo to the property; User fills the details about the property; User clicks on "Confirm" button;
Alternative scenarios	 On the step 2, the address is wrong; a. User edits the address and confirms;
Exception scenarios	1. User clicks on "Confirm"



	button without filling the details about the property; a. System alerts the user to insert the details about the property; 2. User clicks on "Confirm" button without adding a property photo; a. System alerts the user to add a photo to the property; 3. The user clicks on "Cancel" button; a. The process is reversed, and he is redirected to the properties created by himself;
Qualities	-
Relationships to other use cases	UC17 - after creating the property, user might want to add the additional information about the property; UC6 - After creating the property, it needs to be validated by the Admin; UC2;

Section	Content
Topic	Create property
Related acceptance tests	AT-8

3.2.6 UC6: Validate property (admin)

Section	Content
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Identifier	UC6
Name	Validate property;
Priority	High
Criticality	High
Short description	Admin must validate all the properties that are created by the user;
Use case level	Admin
Goal(s)	Prevent the addition of garbage data (properties) into the database by the user;
Primary actor	Admin;
Other actors	None
Precondition	Admin must be logged in the system; Property must be created by the user;
Postcondition	Property becomes public;
Result	Admin is redirected to the properties page; Property's state changes to "available".
Main scenario	 Admin accesses the manage properties page; Admin clicks on one of the properties of the list; Admin clicks on validate
Alternative scenarios	-
Exception scenarios	 Admin clicks on reject, after clicking on the property; a. The property will change its state to "rejected" and will not be available; Non admin tries to access the manage properties page;



	<pre>a. The system will show an "unauthorized" error and will redirect him to his dashboard;</pre>
Qualities	-
Relationships to other use cases	UC2, UC5

Section	Content
Topic	Property validation
Related acceptance tests	AT-13, AT-14

3.2.7 UC7: Edit property

Section	Content
Identifier	UC7
Name	Edit property;
Priority	Medium
Criticality	High
Short description	User can edit the information about the property;
Use case level	User
Goal(s)	Correct the information that changed on the property after its creation;
Primary actor	User
Other actors	None



Precondition	User must be logged in the system; Property must be created;
Postcondition	System saves the changes on the property;
Result	User is redirected to a page with properties created by the user;
Main scenario	 User accesses the page with properties created by himself; User clicks on one of the properties to see the details; User clicks on "Edit" button; User edits the fields; User clicks on "Confirm";
Alternative scenarios	-
Exception scenarios	1. After clicking the "Edit" button, the user clicks on "Cancel" a. He is redirected to his own properties page and the edits he has done are not saved;
Qualities	-
Relationships to other use cases	UC2

Section	Content
Topic	Edit property
Related acceptance tests	AT-11



3.2.8 UC8: Delete property

Section	Content
Identifier	UC8
Name	Delete property;
Priority	Medium
Criticality	High
Short description	User can delete his own property;
Use case level	User
Goal(s)	Remove a property if its duplicated or if the user doesn't want it to be available anymore;
Primary actor	User
Other actors	None
Precondition	User must be logged in the system;
Postcondition	Property is not available anymore;
Result	User is redirected to his own properties page; Property's state changes to "deleted";
Main scenario	 User accesses the page with properties created by himself; User clicks on one of the properties to see the details; User clicks on "Delete" button; System asks the user if he really wants to delete the property; User clicks "yes";
Alternative scenarios	-



Exception scenarios	 User clicks "no"; a. The property stays "available";
Qualities	_
Relationships to other use cases	UC2, UC6

Section	Content
Topic	Delete property
Related acceptance tests	AT-12

3.2.9 UC9: View map

Section	Content
Identifier	UC9
Name	View Map;
Priority	Very High
Criticality	High
Short description	User can view the map with all the properties and its respective colors;
Use case level	User
Goal(s)	View the properties with the color of its state;
Primary actor	User
Other actors	None
Precondition	User must be logged in the system;



Postcondition	-
Result	Map is shown on the dashboard;
Main scenario	 User accesses his dashboard; The system shows the map on the dashboard;
Alternative scenarios	-
Exception scenarios	 If user opens application outside the Porto area, the message "OFF MAP" should be shown If user has GPS location disabled in his device, the system shows the message to unable this setting
Qualities	-
Relationships to other use cases	UC2

Section	Content
Topic	View map
Related acceptance tests	AT-17, AT-22

3.2.10 UC10: View property details (Premium)

Section	Content
Identifier	UC10
Name	View property details;
Priority	Medium



Criticality	High
Short description	Premium User can see the details of every property;
Use case level	Premium User, Admin
Goal(s)	<pre>Know more information about a certain property;</pre>
Primary actor	Premium User
Other actors	None
Precondition	User must be logged in the system;
Postcondition	-
Result	Premium User accesses the property details page;
Main scenario	 Premium User or Admin selects a property; Premium User or Admin clicks on "view details"; System verifies if he's a premium user or an admin; Premium User or Admin is redirected to property details page, where the system displays the details of the property, as well as the additional information;
Alternative scenarios	 Admin accesses the list of properties page; Admin selects one property and clicks "View details";
Exception scenarios	1. User clicks on "view details" a. System redirects the user to the "Buy Subscription" page;
Qualities	-
Relationships to other use cases	UC2, UC16, UC15;



Section	Content
Topic	Property details
Related acceptance tests	AT-16

3.2.11 UC11: View my properties

Section	Content
Identifier	UC11
Name	View my properties;
Priority	High
Criticality	High
Short description	User can view the properties created by himself;
Use case level	User
Goal(s)	Know which properties he has created on the application;
Primary actor	User
Other actors	None
Precondition	User must be logged in the system;
Postcondition	-
Result	User views his properties;
Main scenario	 User clicks on "View my properties" button on the Menu; System displays all the properties the user has



	created;
Alternative scenarios	-
Exception scenarios	-
Qualities	-
Relationships to other use cases	UC2

Section	Content
Topic	View properties
Related acceptance tests	AT-9

3.2.12 UC12: View my property details

Section	Content
Identifier	UC12
Name	View my property details;
Priority	Medium
Criticality	High
Short description	User can view any of his properties details;
Use case level	User
Goal(s)	Check all the information about a property he has created;
Primary actor	User
Other actors	None



Precondition	User must be logged in the system; User must have, at least, one property created;
Postcondition	-
Result	User checks the details of his property;
Main scenario	 User accesses his own properties page; User selects one property and clicks "view details"; The system displays the details of the property, as well as the additional information;
Alternative scenarios	-
Exception scenarios	-
Qualities	-
Relationships to other use cases	UC2, UC11

Section	Content
Topic	Property details
Related acceptance tests	AT-10

3.2.15 UC13: Buy Subscription

Section	Content
Identifier	UC13



Name	Buy Subscription;
Priority	Medium
Criticality	Medium
Short description	User can buy a subscription;
Use case level	User
Goal(s)	Become a premium user;
Primary actor	User
Other actors	None
Precondition	User must be logged in the system;
Postcondition	User can perform Premium User functionalities;
Result	User is redirected to his dashboard; User becomes a Premium User;
Main scenario	 User clicks on "Become Premium User" button; User chooses the method of payment and number of months; User confirms the payment; User pays the amount;
Alternative scenarios	1. User tries to perform a Premium User functionality a. He is redirected to "Become Premium User" page and the process continues by step 2 of the main scenario.
Exception scenarios	1. User clicks on "cancel"; a. He continues as a free user and he's redirected to his dashboard; 1. User doesn't conclude the payment process; a. He continues as a free



	user and he's redirected to his dashboard;
Qualities	-
Relationships to other use cases	UC2

Section	Content
Topic	Buy subscription
Related acceptance tests	AT-15

3.2.5 UC14: Add Additional Information

Section	Content
Identifier	UC17
Name	Add Additional Information;
Priority	Low
Criticality	Low
Short description	User can answer a questionnaire to add optional information about a property he has created;
Use case level	User
Goal(s)	Share his view of what the property could become in the future;
Primary actor	User



Other actors	None
Precondition	User must be logged in the system; User must have created the target property;
Postcondition	System stores the information on the database;
Result	User is redirected to a page with properties created by the user;
Main scenario	 System asks user if he wants to answer a questionnaire; User answers "yes"; User fills in the questionnaire; User clicks in the "Confirm" button and the System stores the questionnaire answer;
Alternative scenarios	-
Exception scenarios	 On the step 2, the user answers "no"; a. This process is cancelled; On the step 3 or 4, the user clicks on "cancel" button; a. This use case is cancelled; User clicks on "Confirm" button with every field empty. a. The system warns the user to fill the questionnaire and does not proceed;
Qualities	-
Relationships to other use cases	UC2, UC16 - after creating the property, user might want to add the additional information about the property;



Section	Content
Topic	Create property
Related acceptance tests	AT-21

3.2.5 UC15: Add Photo to property

Section	Content
Identifier	UC15
Name	Add photo to property;
Priority	Medium
Criticality	Medium
Short description	User can add a new photo of an existing property;
Use case level	User
Goal(s)	Have a photo with better point of view or a more updated state of the property;
Primary actor	User
Other actors	None
Precondition	User must be logged in the system; Target property must have been created and available;
Postcondition	System stores the new photo in the database;
Result	User is redirected to his dashboard;



Main scenario	 User clicks on the property's location; User clicks "Add photo" button; User uploads a photo and clicks in the "Confirm" button;
Alternative scenarios	 User takes a new picture, instead of uploading a photo from the gallery;
Exception scenarios	 User doesn't upload a photo; a. He can't click on "Confirm" User clicks on cancel on step 3; a. He is redirected to his dashboard and no photo is added;
Qualities	-
Relationships to other use cases	UC2, UC5

Section	Content
Topic	Edit property
Related acceptance tests	AT-20, AT-21

3.2.5 UC16: Edit Address

Section	Content
Identifier	UC16



Name	Edit Address;
Priority	Low
Criticality	Low
Short description	Admin can edit an address of a property;
Use case level	Admin
Goal(s)	Correct detailed address of a already available property;
Primary actor	Admin
Other actors	None
Precondition	Admin must be logged in the system; Target property must have been created and available;
Postcondition	System stores the new address in the database;
Result	New address is shown on the text editor for everyone;
Main scenario	 Admin clicks on the property's location; System displays the address in a textbox; User edits the address and clicks on "Edit" button; Admin taps on the button to confirm change;
Alternative scenarios	-
Exception scenarios	 Admin edits the address but clicks on other location; a. The address is not edited; User clicks on the property's location; a. Address box is not editable;



Qualities	-
Relationships to other use cases	UC2, UC5

Section	Content
Topic	Create property
Related acceptance tests	AT-19

3.2.5 UC17: Edit Photo

Section	Content
Identifier	UC17
Name	Edit Photo;
Priority	High
Criticality	High
Short description	Admin can edit a photo of a property;
Use case level	Admin
Goal(s)	Remove people's faces from the photo to prevent image right issues;
Primary actor	Admin
Other actors	None
Precondition	Admin must be logged in the system;



	Target property must have been created;
Postcondition	System stores the new photo in the database;
Result	Photo is edited and the admin goes back to the property details page;
Main scenario	 Admin clicks on the property's photo; Admin clicks on edit photo Admin edits photo; Admin taps on the button to confirm change;
Alternative scenarios	_
Exception scenarios	 3. Admin clicks on cancel on step 3 or 4;; a. The photo is not edited; 4. User clicks on the property's photo; a. Edit photo button will not show up;
Qualities	-
Relationships to other use cases	UC2, UC5

Section	Content
Topic	Create property
Related acceptance tests	AT-19



3.3 Use Case Diagram

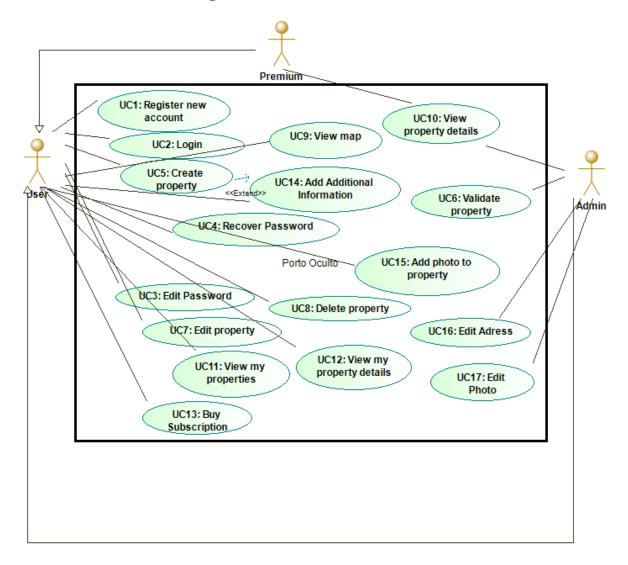


Figure 2 - Use Case diagram for $\underline{Porto\ Oculto}$ application



4. Appendixes

4.1 Appendix 1 - Requirements elicitation process & Results.

Interview

- 1-22/02/2019 First interview between the clients and our full team to kick-off the project and learn about the product vision, the goals of the system and elicitation of requirements;
- 2-26/02/2019 Skype interview between the clients, Érica and Emanuel where the goals were explored and further elicitation of more detailed requirements;
- 3-01/03/2019 Skype interview between the clients and the team leader to do elicitation of some detailed requirements;