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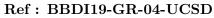
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Acronyms				
UAB	Universitat Autonoma de	SE	Software Engineering	
	Barcelona			
UPF	Universitat Pompeu Fabra			
NA	Neighbourhood association	PA	Property Administrator	
DB	DataBase			

Revision History				
Version	Date	Comments	Autor	
0.1	1-Apt-2019	Initial Draft	ES Team	
0.2	26-May-2019	Second version	ES Team	
0.3	2-June-2019	Third version	ES Team	



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#### 1 Introduction

This document describes the most relevant use cases for the MY-NEIGH software.

A use case specifies the system behavior of the system and represent the functional requirements of the system. They are started by a user with an objective and they are completed when the system satisfies this objective.

In order to obtain a use case, we should first identify the actors, find all the roles that can be played by the users, identify the objectives to be fullfilled, create a Use Case per object and finally, obtain a Use Case Diagram.

Regarding the relationships between Use Cases, there are three: generalization, a Use Case inherits the behavior of another, inclusion, which incorporates explicitly the behavior of another Use Case at some point and extension, which a Use Case completes the functionality with another user.

This document starts with an Introduction. Next, a Use Case diagram is presented and some Use Cases are specified. Each Use Case specification has a description with the following elements:

- Basic flow
- Alternative flow
- Pre-Conditions
- Post-Conditions

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## 2 Use Case Diagram

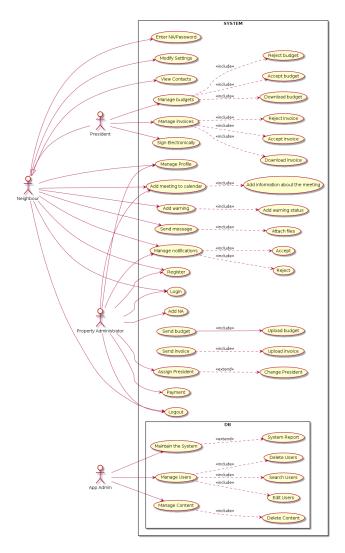


Figure 1: Total Use Case Diagram

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## 2.1 Specific Use Case Diagrams

#### 2.1.1 Neighbour

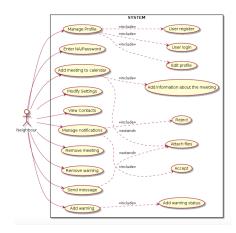


Figure 2: Neighbour Use Case Diagram

#### 2.1.2 President

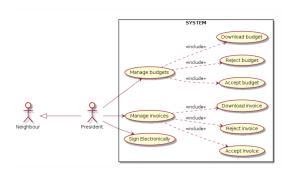


Figure 3: President Use Case Diagram

## 2.1.3 Property Administrator

#### 2.1.4 APP Administrator

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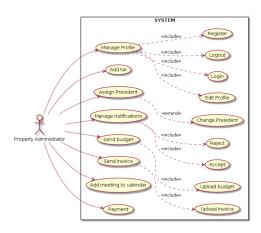


Figure 4: Property Administrator Use Case Diagram

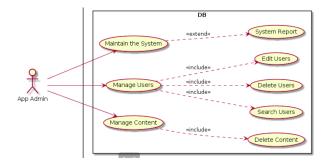


Figure 5: APP Administrator Use Case Diagram

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#### 3 Use Case: Add event to calendar

This use case consists on the user (neighbour, president or property administrator) to be able to schedule a meeting or an activity and add it to the calendar to everyone from the neighbor association can see it.

#### 3.1 Events flow

#### 3.1.1 Basic flow

The use case starts when the user has access to the system and is logged.

- 1. User must access to the calendar.
- 2. User must select a day, a month and a year from the calendar.
- 3. User must indicate it is going to add an event by clicking at the "New Event" icon.
- 4. System must take information about the event. Required information:

For Neighbours:

- Name of the event.
- Place of the event.
- Time of the event.
- Brief description of the event.
- Priority (High, Medium or low)

For Property Administrators:

- Name of the event.
- Place of the event.
- Time of the event.
- Day's Order.
- 5. User must indicate confirmation of the event by clicking "Okay" once all the information is covered.
- 6. System sends to all interested users a notification.
- 7. Users invited must accept or decline the invitation to the event by clicking "Accept" or "Decline".
- 8. System shows confirmed users going to the event once the invitation has been accepted.
- 9. Use Case Ends.

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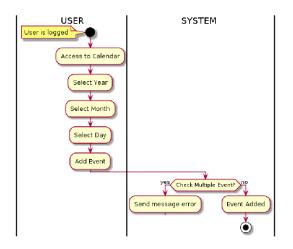


Figure 6: Activity Diagram of event addition

#### 3.1.2 Alternative flow

- Cancel Event
  - 1. User selects cancel after clicking "Okay".
  - 2. User return to the calendar.
- Multiple Events.
  - 1. The system will display "Multiple Events at the same time".
  - 2. The system will keep none of the events.

#### 3.2 Pre-Conditions

- User Registration
- User Login
- Be in an neighbourhood association

#### 3.3 Post-Conditions

- The new event or meeting is added to the calendar.
- System shall send a reminder one day before the event depending on priority.

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#### 4 Use Case: Remove event from calendar

The actors involved in this use case are: neighbour, president and the property administrator. They need to be able to remove a meeting or an activity from the calendar.

#### 4.1 Events flow

#### 4.1.1 Basic flow

The use case starts when the user has access to the system and is logged.

- 1. User must access to the calendar.
- 2. User must select a day, a month and a year from the calendar.
- 3. User must select an Event that is already in the calendar.
- 4. User must click "Delete Event".
- 5. The system will remove the Event and the users will not be able to see it.
- 6. Use Case Ends.

#### 4.1.2 Alternative flow

- Move Event
  - 1. User selects another day to introduce the event.
  - 2. User return to the main page.
- Delete Error.
  - 1. The system will display an error message "The Meeting cannot be deleted". This can happen when a neighbour tries to delete a meeting added by the property administrator.
  - 2. The meeting will remain in the calendar.

#### 4.2 Pre-Conditions

- User Registration
- User Login
- Be in an neighbourhood association

#### 4.3 Post-Conditions

• The meeting is removed from the calendar.

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#### 5 Use Case: Edit event from calendar

The actors involved in this use case are: neighbour, president and the property administrator. They need to be able to edit meeting or an activity information from the calendar.

#### 5.1 Events flow

#### 5.1.1 Basic flow

The use case starts when the user has access to the system and is logged.

- 1. User must access to the calendar.
- 2. User must select a day, a month and a year from the calendar.
- 3. User must select an Event that is already in the calendar.
- 4. User must click "Edit Event".
- 5. User must change or introduce new information.
- 6. The information will be updated.
- 7. Use Case Ends.

#### 5.1.2 Alternative flow

- Invalid Information.
  - 1. The system will display an error message "Invalid Information".
  - 2. The user will need to re-enter the information to the calendar.

#### 5.2 Pre-Conditions

- User Registration
- User Login
- Be in an neighbourhood association

#### 5.3 Post-Conditions

- The informatio of meeting is updated.
- The system will send a notification to other users with updated information.
- Users must accept or decline the invitation to the event by clicking "Accept" or "Decline".
- System shall send a reminder one day before the event depending on priority.

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## 6 Use Case: User management I - Delete User

An administrator deletes an existing user in the database.

#### 6.1 Events flow

#### 6.1.1 Basic flow

This use case starts when an administrator enters to the system.

- 1. The system displays the list of users.
- 2. The administrator selects the user that wants to delete.
- 3. The system show the information of the user.
- 4. The system removes the user selected from the database.
- 5. The system database is updated.

#### 6.1.2 Alternative flow

- Cancel deletion. Administrator can cancel the action mentioned, while the remove option is not selected.
- Deletion Invalid. Administrator should update the database.

#### 6.2 Pre-Conditions

- Administrator should have access to the system.
- Data Base control manager shall be in operative state.

#### 6.3 Post-Conditions

- Administrator may send a notification to the deleted user.
- User will not be in the database.

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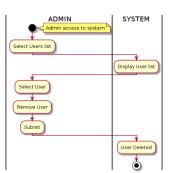


Figure 7: Activity Diagram of user deletion

## Use Case: User management II - Modify user

An administrator modifies the profile of an existing user in the database.

#### 7.1 Events flow

#### 7.1.1**Basic flow**

This use case starts when an administrator enters to the system.

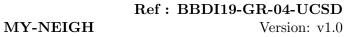
- 1. The system displays the list of users.
- 2. The administrator selects the user that wants to modify.
- 3. The system show the information of the user.
- 4. Administrator submit the user profile modification.
- 5. The system updates the profile information.

#### 7.1.2 Alternative flow

- Cancel modification. Administrator can cancel the action mentioned, while the submit option is not selected.
- Invalid Modification. An error will appear and the administrator should enter again the information.

#### **Pre-Conditions**

- Administrator should have access to the system.
- Data Base control manager shall be in operative state.



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## 7.3 Post-Conditions

• The new information is in the user profile.

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## 8 Use Case: User management III - Search User

An administrator search an existing user in the database.

#### 8.1 Events flow

#### 8.1.1 Basic flow

This use case starts when an administrator enters to the system.

- 1. The system displays the search box.
- 2. The administrator enters the string or criteria.
- 3. The system shows the list of the user that follow a determined criteria.

#### 8.1.2 Alternative flow

- Cancel search. Administrator returns to the main page.
- Invalid Enter. An error will appear and the administrator should enter again the information.
- No founds. There are no results.

#### 8.2 Pre-Conditions

- Administrator should have access to the system.
- Data Base control manager shall be in operative state.

#### 8.3 Post-Conditions

• The new information is the user profile.

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### 9 Use Case: Manage Notifications

The different users can accept or reject the different types of notifications that they receive.

The actors involved in this use case are: neighbour, the president and the property administrator.

#### 9.1 Events flow

#### 9.1.1 Basic flow

For the *neighbour*:

This use case starts when the neighbour is logged into the system.

- 1. The system shall show a notification of an event added.
- 2. In the notification there will be a button to click for the attendance to a meeting created either by the president or the property administrator.
- 3. The neighbour shall choose to accept or reject the attendance to the meeting.

#### For the **president**:

This use case starts when the president is logged into the system.

- 1. After the administrator has send a budget or an invoice.
- 2. The system shall send a notification to the president.
- 3. The president shall open the finance section.
- 4. Use Case Ends

For the *property administrator*:

This use case starts when the president is logged into the system.

- 1. The system shall show a notification for the acceptance or rejection of the budget of the community.
- 2. The property administration shall see if there are some notes from the president.

#### 9.1.2 Alternative flow

- Remember later.
  - 1. The user can choose to receive the notification after a period of time.
    - 5 minutes
    - 1 hour
    - -1 day

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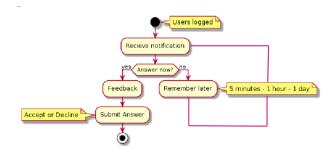


Figure 8: Notification management Activity Diagram

#### 9.2 Pre-Conditions

• User shall have access to the system.

#### 9.3 Post-Conditions

For the president:

- The user will be in the placed in the list of attendency, if it accepts.
- For the president:
- The president will be able to download the budget or invoice.

For the property administrator:

• The PA will see if the President has accepted or not the budget or invoice.