

Service Project

Create Account Use-Case Narrative

User story

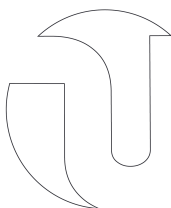
As a System basic User, I need to be able to create an account to access the website features.

Abstract

Service is an application that allows basic system users to create posts related to university properties that need repair or attention. In order to add a post, an user needs an user account. The Create Account User-Case Narrative describes all the requirements for this use-case that allows the user to create an account. It also documents the use-case diagram that shows the relationships that exists between the actors of the Create Account use-case.

Version History

Date	Version	Author	Description
04/11/2016	01	Raquel Rosa	First Draft.
07/11/2016	02	Raquel Rosa	Fully described.



An Essential Unified Process Document

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1 Introduction

1.1 Document Purpose

The purpose of this document is to provide an overview of the system use-case model in order to provide a high-level understanding of:

- Context – the people or things that interact with the system (the *Actors*)
- Scope – the things of value that the system performs for its Actors (the *Use Cases*).

1.2 Document Scope

The scope of this document is limited to:

- Diagramming and cataloging the system actors and use cases for the Service project.

The scope of this document does *not* include consideration of:

- Detailed specification of each use case – this is provided separately in a Use-Case Specification document for each use case.

1.3 Document Overview

This document contains the following sections:

- **Brief Description** – reminder of why the use case is needed
- **Use-Case Model Overview** – overview of the use-case model in the form of one or more use-case diagrams with supporting explanatory text
- **Actor Catalog** – catalog of all system actors
- **Use Case Catalog** – catalog of all system use-cases
- **References** – provides full reference details for all documents, white papers and books that are referenced by this document.

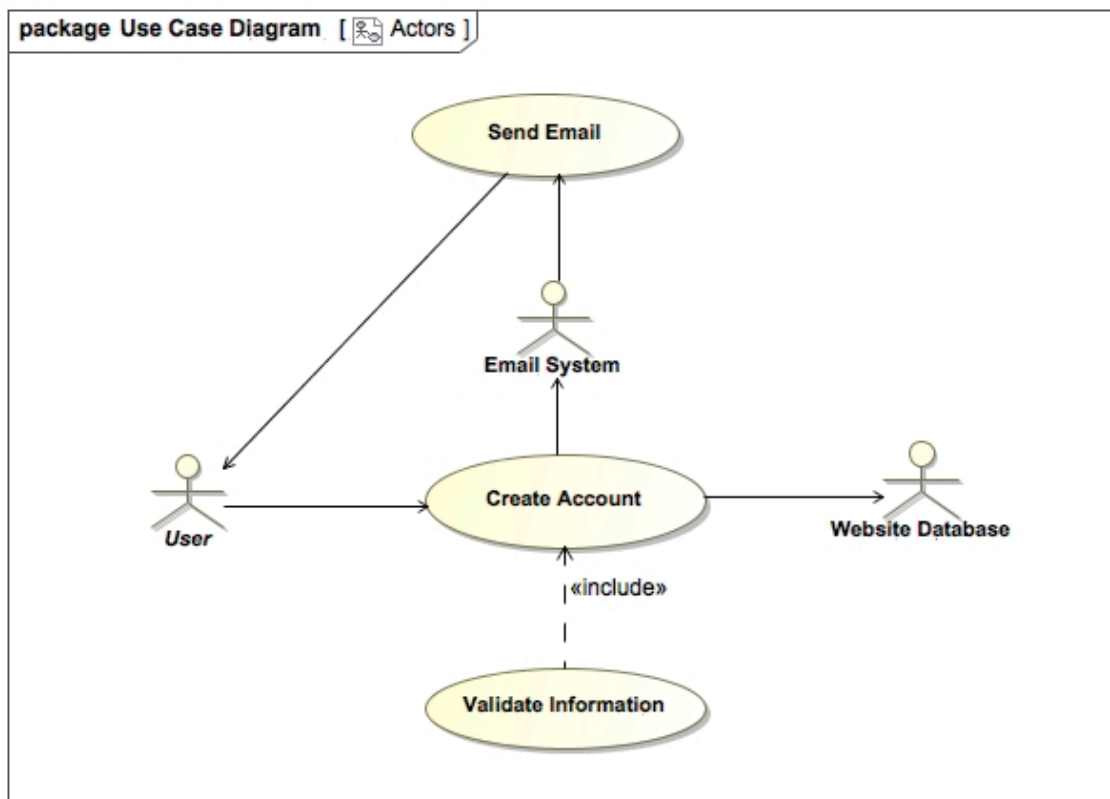
2 Use-Case Diagrams

This use case describes how a user is created. “User” here is referred to the basic Service System user; it does not include the Administrator or the Property Managers.

2.1 Create Account

This diagram describes the processes included in the creation of a user account. A user creates an account on the “Create Account” webpage, the data is validated, the data is saved on the Website Database, and the email system sends an email to the user confirming, “Account created successfully”.

Create Account



3 Actor Catalog

The table below catalogs the system actors, specifying for each actor:

- Name – unique and meaningful name for the actor
- Brief Description – summarizing the role that the actor plays with respect to the system.

Name	Brief Description
User	A basic Service System User that creates an account.
Email System	Sends an email to user after account is created.
Website Database	Website that contains a database of users and their attributes.

4 Use-Case Catalog

The table below catalogs the system use cases, specifying for each use case:

- ID – unique identifier for the use case
- Name – unique and meaningful name for the use case
- Type:
 - *Base – end-to end interaction between an actor and the system*
 - *Inclusion – abstracted common part of many Base Use Cases that is explicitly referenced by these use cases*
 - *Extension – extension of one or more referenced Base Use-Cases*
 - *Abstract – use case describing generic aspects of many Base Use Cases which in turn specialize this general case in some way.*
- Brief Description – summarizes the use-case purpose in terms of the value produced for its actors and other stakeholders.

ID	Name	Type	Brief Description
1	Create Account	Base	A user creates an account.

5 Use case Specification

One section per use cases – according to the use case specification template below

The Create Account Use-Case Narrative specifies all requirements relating to this use case, including the flows through the use case and any non-functional requirements that relate specifically to this use case.

5.1 Introduction

5.1.1 Document Purpose

The primary objectives of the Use-Case Specification are to:

- Provide a complete set of requirements relating to the use case, including the flows through the use case and all significant external behavior of the use case
- Provide additional supporting information to support the communication of the purpose, requirements, constraints and flows through the use case.

5.1.2 Document Scope

The scope of this document is limited to consideration of:

- The specification this specific use case, including any non-functional requirements and constraints that relate specifically to this use case.

This scope of this document does not include consideration of:

- Requirements that relate specifically to any other use case – these are described in separate specifications for the other use cases
- Requirements that do not relate to any specific use case – these are described in a separate Supplementary Requirements document.

5.1.3 Document Overview

This document contains the following sections:

- **Brief Description** – focusing on the purpose of the use case
- **Preconditions** – the state the system must be in before the use case can be performed
- **Basic Flow** – what normally happens when the use case is performed
- **Alternative Flows** – unusual, optional or exceptional use case behavior
- **Post-Conditions** – valid system states after the use case has finished

- **Special Requirements** – non-functional requirements that relate specifically to this use case
- **Extensibility** – where the use case can be extended by other use cases
- **Scenarios** – lists the key representative scenarios for this use-case
- **Additional Information** – any other useful supporting information
- **References** – provides full reference details for all documents, white papers and books that are referenced by this document.

5.2 **Brief Description**

The Create Account use case allows the User to create an account and become a Registered User.

5.3 **Preconditions**

- The user must have Internet connection and be able to access the website.
- The user is currently on the create account webpage.
- The database is linked to the website and working properly.
- The email system must be working properly.

5.4 **Basic Flow**

This use case starts when the users access the system feature that enables him/her to create an account by entering personal information that will be validated and stored in the User's account.

{Fill out Form}

1. User enters required information values.
2. User press submit button.

{Validate Information}

3. The system validates the information entered.

{Store data}

4. The information is stored on user's account in the system database.
5. The system notifies the User that the account was successfully created and he should look for an email on his inbox.

{Confirm Account Created by email}

6. The system sends an email to the new user notifying that the account has been created with a link to the login page.

{Use case ends}

6. The use case ends.

5.5 **Alternative Flows**

5.5.1 **Handle Invalid Data Input**

At {Validate Information} if system detects invalid data:

1. System prompts message to user to fix incorrect data or missing required data.
2. System highlights the data that needs to be fixed.
3. User enters the missing data or corrects the data.
4. The use case resumes basic flow at {Validate Information}.

5.5.2 Handle Create Account Interruption

At {Fill out Form} if user leaves the page:

1. No data is stored in the database.

5.5.3 Handle User already exists

At {Validate Information} if system detects that the user already exists:

1. System prompts message to user informing that this user already exists and suggests going to the login page.
2. The use case ends.

5.6 *Post-Conditions*

A confirmation email is sent to user provided email address informing the success of account creation and a link to login.

5.7 *Special Requirements*

- Reliable and secure network.
- Website contains information about rules and regulations.
- Website contains information about privacy policy.
- User informed about rules and regulations.
- User informed about privacy policy.

5.8 *Additional Notes – any supporting Extensibility*

No public extension points defined.

5.9 *Scenarios*

A scenario is an instance or specific occurrence of a use case. This section lists key representative scenarios for this use-case, listing for each scenario:

- Name – a unique and meaningful name for the scenario
- Flows Exercised – List of the use case flows exercised by the scenario
- Additional Notes – any supporting notes about the scenario or its purpose.

Name	Flows Exercised	Additional Notes
Invalid Data Input	5.5.1 Handle invalid data input.	If invalid data is detected by the system, the system prompts message to user to fix incorrect data or missing required data. The system highlights the data that needs to be fixed.
Interruption of Create account process	5.5.2. Handle create account interruption	If user leaves the page before submitting the create account form, no data is stored in the database.
User already exists	5.5.3 Handle User already exists	If the system detects that the user already exists, the system prompts message to user informing that this user already exists and suggests going to the login page.

6 Example of use case specification

This section provides any additional information required to make the use case more accessible to the stakeholders and the development team.

This template is an extended version of the original template defined by Cockburn [1], in particular extended with a possibility to describe Requested Information Resources often found useful when dealing with data oriented systems. [1] Cockburn, A. Writing Effective Use Cases. ISBN-13: 9780201702255. Addison-Wesley (2001).

Use Case Template	Description
Use Case Name	Create User Account
Use Case ID	1
Revision and Reference	Revision = 0.2 Reference = N/A
Use Case Diagram	The user enters the required information at the provided form. The system validates the information entered. The information is stored on user's account in the system database. The system notifies the User that the account was successfully created and he should look for an email on his inbox. The system sends an email to the new user notifying that the account has been created with a link to the login page. The use case ends.
Status	Planned
Priority of accomplishment (optional)	Must have: The system must implement this goal/ assumption to be accepted.
Goal	Basic System Users can create an account.
Summary	User creates account filling out a form with personal information and submitting the form.
Category	User accounts
Actor	User, Email System, Website Database
Primary Actor (initiates)	Basic System User.
Stakeholder (optional)	Service owners.
Requested Information Resources (optional)	<ul style="list-style-type: none">• User observation (read).• User – specific effect (update)• Email System alert (manage)
Preconditions	<ul style="list-style-type: none">• The user must have Internet connection and be able to access the website.• The user is currently on the create account webpage.• The database is linked to the website and working properly.• The email system must be working properly.

Use Case Template	Description
Triggers (optional)	The user chooses to create an account.
Main success scenario	<ol style="list-style-type: none"> 1. User enters required information into a create account form. 2. User press submit button. 3. The system validates the information entered. 4. The information is stored on user's account in the system database. 5. The system notifies the User that the account was successfully created and he should look for an email on his inbox. 6. The system sends an email to the new user notifying that the account has been created with a link to the login page. 7. The use case ends.
Extensions	3a. The system validates the information.
Alternative paths (optional)	<ol style="list-style-type: none"> 1a. User leave the create account webpage. 3a. The user enters invalid data into the form. 3b. User already exists.
Post conditions	A confirmation email is sent to user provided email address informing the success of account creation and a link to login.
Non-functional requirements	<ul style="list-style-type: none"> • Reliable and secure network. • Website contains information about rules and regulations. • Website contains information about privacy policy. • User informed about rules and regulations. • User informed about privacy policy. • Email sent to user in less than 30 seconds.
Validation statement	The user has a new account and now is ready to login into the system.
Notes	Users in this use case are the basic system users, not including the administrator or the property managers.
Author and date	Raquel Rosa, November 4 th , 2016.

