GoJupiter Project

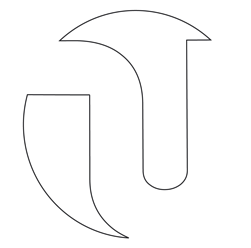
Register Customers Use-Case Narrative

Abstract

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| ***This document provides an overview of the solution context, scope and high-level functional capabilities for the GoJupiter project. It catalogs the actors that interact with the system and the use cases that together describe all the ways in which they interact with the system. It also documents the use-case diagrams that show the relationships that exist between the actors and the use cases.*** |

Version History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Author** | **Description** |
| 07/14/2015 | 0.1 | Pini Vaknine | Initial edit |
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An Essential Unified Process Document

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# Introduction

## 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*).

## Document Scope

The scope of this document is limited to:

* Diagramming and cataloging the system actors and use cases for the GoJupiter 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.

## 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.

User Story

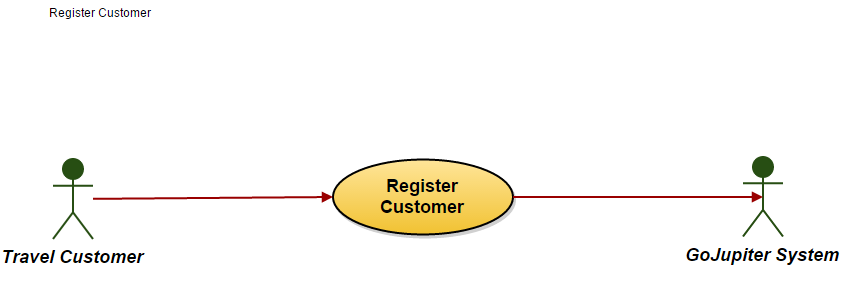
I, the **Travel Customer**, need to be able to register with GoJupiter.com so I can read reviews, write reviews, and book travel.

Use-Case Diagrams

This section provides an overview of the use-case model in the form of one or more use-case diagrams with supporting explanatory text.

## Register Travel Customer

This use case describes how a GoJupiter site visitor registers on GoJupiter.



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 |
| --- | --- |
| Travel Customer | Individual interested in registering with GoJupiter site. |
| GoJupiter System | Database system that facilitates the registration of customers. |

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 |
| --- | --- | --- | --- |
| 003 | Register Customer | Base | Travel customers can register with GoJupiter.com to read reviews, write reviews, and book travel. |

# Use case Specification

|  |
| --- |
| ***The 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.*** |

## Introduction

### 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.

### Document Scope

The scope of this document is limited to consideration of:

* The specification of 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.

### 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 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.

## Brief Description

This use case describes how a GoJupiter site visitor becomes a registered customer.

## Preconditions

• The GoJupiter customer must have access to the Internet.

• The network connection to the GoJupiter System must be active.

• The GoJupiter customer must have a valid email address.

## Basic Flow

{Access GoJupiter.com}

1. The use case begins when the **Travel Customer** accesses GoJupiter.com.

{Select Registration Option}

1. The **Travel Customer** selects the option for registering on the top left.
2. The **GoJupiter system** directs user to sign up page.

{Enter Information}

1. The **Travel Customer** enters email address.
2. The **Travel Customer** enters and confirms a password.
3. The **Travel Customer** enters first and last name.
4. The **Travel Customer** selects option to confirm registration information.

{Confirm Registration}

1. The **GoJupiter system** will process the input given by the **Travel Customer**.
2. The **GoJupiter system** stores customer’s registration information.
3. The **GoJupiter system** will redirect the **Travel Customer** to a page confirming registration.

## Alternative Flows

This section describes the alternative flows for the use case, grouped into named subsections reflecting the area of functionality to which to the alternative flow relates. Each alternative flow is described in terms of:

* The point in the use case at which the alternative flow might begin
* The conditions under which the alternative flow will begin
* The flow of events within the alternative flow
* The point at which the use case resumes on completion of the alternative flow.

### *Existing Registration Email*

#### **Handle the case of a pre-registered customer.**

At the end of {Enter Information}, after the customer clicks the submission button, if the customer is already registered with GoJupiter.com:

1. The **GoJupiter system** presents option for the returning customer to log in or register.
2. The **Travel Customer** selects option to log in.
3. The **GoJupiter system** request customer’s log in credentials.
4. The **Travel Customer** enterslog in credentials.
5. The **Travel Customer** selects option to complete log in process
6. The **GoJupiter system** verifies customer’s credentials.
7. The **GoJupiter system** accesses customer’s account.

### *Invalid Email Address*

#### **Handle the correction of invalid email address.**

At {Enter Information} if the customer enters an email address that does not follow the standard email format (i.e. name@doman.com):

1. The **GoJupiter system** alerts **Travel Customer** with a message detailing the following:
   1. Email address is not valid.
   2. Email address does not follow a standard format.
   3. Example of a valid email address.
2. The **GoJupiter system** prompts user to enter a valid email address.
3. Resume at {Enter Information}.

### *Non-matching Passwords*

#### **Handle the correction of non-matching passwords.**

At {Enter Information} if the **Travel Customer** did not enter matching passwords:

1. The **GoJupiter system** alerts **Travel Customer** with a message explaining that the passwords did not match.
2. The **GoJupiter system** prompts **Travel Customer** to re-enter passwords.
3. Resume at {Enter Information}

## Post-Conditions

* The customer is redirected to a registration confirmation page.

## Special Requirements

### Data Security

Customer email and password will be encrypted on **GoJupiter system**.

### System Speed

System capacity is optimized for 50 concurrent users.

All website pages will render within 1 second of page load call.

## Extensibility

No public extension points defined.

## 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 |
| --- | --- | --- |
| Visit Site | 6.4 - {Access GoJupiter.com} |  |
| Select Registration | 6.4 – {Select Registration Option} |  |
| Enter Information | 6.4 – {Enter Information} | The customer will log in if previously registered. The customer will enter valid email address if found to be invalid. The customer will enter matching passwords if they do not match. |
| Confirm Registration | 6.4 – {Confirm Registration} |  |

# 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** | **Examples** |
| --- | --- | --- |
| Register Customer | Name of the use case | Register Customer |
| Use Case ID | Unique identifier of a use case | 003 |
| Revision and Reference | Revision = version number of use case ID  Reference = URL of the use case (you get the URL by right-clicking on the entry in the index column) | V0.4 |
| Use Case Diagram | Description of the UML use case diagram for the actual use case. The diagram should include extend and include relationships if there is any.  The actual UML diagram figure may be added at the bottom of the template by uploading a bitmap generated from a UML editor. | Use case diagram shows how the actor, Travel Customer, interacts with the GoJupiter system for the purpose of registering with GoJupiter. |
| Status | Status of the use case development | In progress |
| Priority of accomplishment (optional) | The priority of the use case to be considered when assessing its importance for a development cycle. | Must have: The system must implement this goal/ assumption to be accepted. |
| Goal | Short description (max. 100 characters) of the goal to be achieved by a realization of the use case. | Customers can register with GoJupiter in order to utilize all its functionalities. |
| Summary | Comprehensive textual description of the use case. | The Customer visits GoJupiter.com, clicks the link to register, enters all required information, the GoJupiter system then processes and stores the customer’s information, and the customer is redirected to a registration confirmation page. |
| Category | Categorisation of use cases according to overall reference architecture. | *Context dependent* |
| Actor | List of users of the use case (actors) | Travel Customer, GoJupiter System |
| Primary Actor (initiates) | Actor that initiates the use case execution. | Travel Customer |
| Stakeholder (optional) | Company, institution or interest group concerned by the execution of the use case | GoJupiter.com |
| Requested Information Resources  (optional) | Information category or object that is required to execute the use case or is being generated during the course of the use case execution.  The requested information resource shall be listed together with its requested access mode (create, read, update or delete) or “manage” which encompasses all access modes. | N/A |
| Preconditions | Description of the system/user status statement) that is required to start the execution of the use case.  Note that use cases can be linked to each other via "preconditions“. This means, a precondition for a use case can be either an external event or another use case. In this case the use case ID should be provided in the field „preconditions“. | The GoJupiter customer must have access to the Internet.  The network connection to the GoJupiter System must be active.  There must be availability upon the JupiterXpress shuttle. |
| Triggers (optional) | (External) event that leads to the execution of the use case.  Note that use cases can be linked to each other via "triggers“. This means, a trigger for a use case can be either an external event or another use case. In this case the use case ID should be provided in the field "triggers“. | N/A |
| Main success scenario | Numbered sequence of actions (use case workflow) to be carried out during the execution of the use case. | Travel Customer must:   1. Access GoJupiter.com 2. Select option to register 3. Enter required information 4. Click on confirmation button 5. Land on confirmation page |
| Extensions | Extension of an action of the main success scenario. The action to be extended shall be referred to by its number (e.g. 1) appended by a letter (e.g. 1a). | N/A |
| Alternative paths (optional) | Alternate path through the main success scenario w.r.t. an identified action. | 6.5.1. The customer may log in if they already hold an account.  6.5.2. The customer may need to enter a valid email at registration if it is found invalid.  6.5.3. The customer may need to enter matching passwords if they do not match at registration. |
| Post conditions | Description of the system/user status (statement) that holds true after the successful execution of the use case. | The customer is redirected to a registration confirmation page. |
| Non-functional requirements | Description of non-functional requirements for this use case with respect to performance, security, quality of service or reliability. | Customer email and password will be encrypted on GoJupiter system. |
| Validation statement | List of statements that indicate how to validate the successful realization of the use case. | Customer will receive an email with a link to the confirmation page.  Customer can log in to GoJupiter.com and utilize all funcitonalities. |
| Notes | Additional notes or comments (also by other users). |  |
| Author and date | Author of use case, date of last edition. | Pinchas Vaknine, 7/15/2015  Viviana Falco, 7/16/2015 |