Framgång

Inventory Management System Enterprise (IM SE)
Use-Case-Realization Specification:
AddProduct

Version 1.1

Revision History

Date	Version	Description	Author
26/10/2022	1.0	Initial	Marius Hoffmann, Nicolai Eisenstein
31/05/2023	1.1	fill the gaps and correction	Dominik Fuchs

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Use-Case-Realization Specification: AddProduct

1. Introduction

The Use-Case Realization Specification outlines the implementation details for the specific use case of adding a product to an inventory management system. Its purpose is to ensure that this use case is implemented correctly and in accordance with the system's requirements. The scope of the document is limited to this particular use case and does not cover other functionalities like product search, updates, or deletions. The document includes definitions for key terms such as "Product" and "Inventory management system" and references the Software Requirements Specification (SRS) and Sequence Diagram. The flow of events and design for the use case are presented in Chapter 2, and Chapter 3 lists the derived requirements, which include the need for the actor to have internet access and a Java Runtime Environment (JRE) installed on their computer. The JRE is a software platform that enables the execution of Java programs on different operating systems, providing the necessary libraries and environment variables for their functionality.

1.1 Purpose

The purpose of the Use-Case Realization Specification is to describe how the use case of adding a product to the inventory management system should be implemented. The specification will ensure that the use case is implemented correctly and that it meets the requirements of the system.

1.2 Scope

1.3 *The scope of this Use-Case Realization Specification is limited to the use case of adding a product to an inventory management system. The specification does not cover other use cases, such as searching for products, updating products, or deleting products.*

1.4 Definitions, Acronyms, and Abbreviations

Product: A tangible item that is sold or traded.

Inventory management system: A computer system that is used to track the quantity of products in a company's inventory.

Use-Case Realization Specification: A document that describes how a use case will be implemented in a system.

1.5 References

SRS

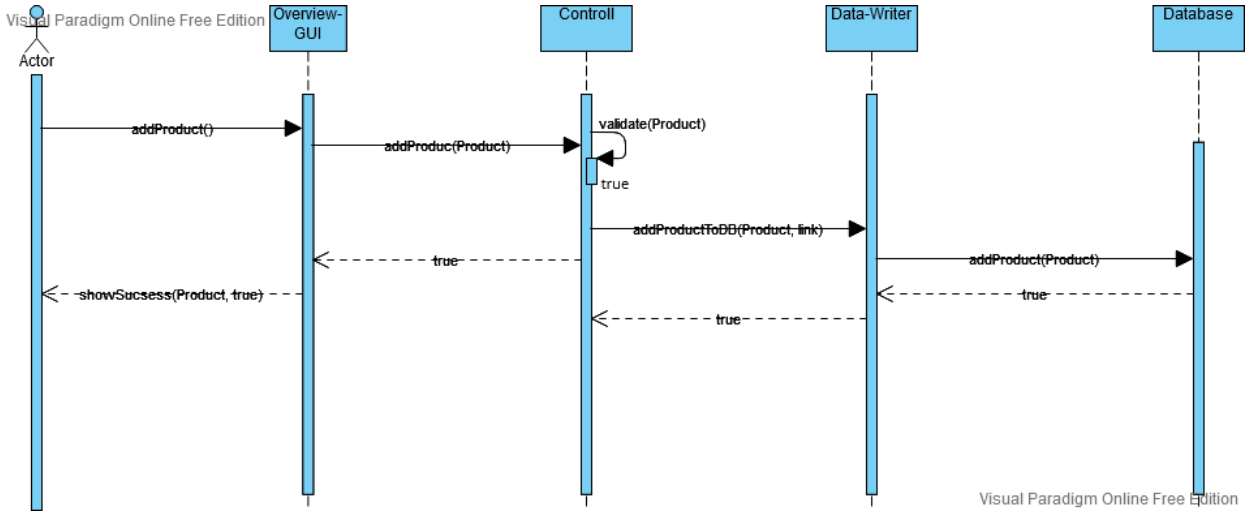
Sequence diagram

1.6 Overview

In Chapter 2, the document illustrates the flow of events and design pertaining to the use case. It provides a detailed overview of how the use case is realized through the collaboration of various objects. Additionally, Chapter 3 outlines all the requirements associated with the use case.

2. Flow of Events—Design

After the actor has entered the data for the product to be added to the database, the controller validates the data and checks for errors. If the input is correct, it uses the DataWriter to add the product to the database and returns a true to the GUI, indicating success to the actor.



3. Derived Requirements

The actor needs to have internet access and a Java Runtime Environment (JRE) installed on their computer in order to use the system. The JRE is a software platform that allows Java programs to run on a variety of operating systems. It provides the necessary libraries and environment variables that Java programs need to run.