

# <Component Name> Design Document

*NOTE: Text in italics should be replaced with your own content.*

Date:

Author:

Reviewer(s):

## Introduction

*A high-level description of this document, for example, "This document defines the design for the Canonical Model".*

## Overview

*Overview of the problem to be solved. What is the problem and why is it being solved? How will the resulting solution provide business value?*

*Consider adding a diagram that explains how this component fits into the overall System with some descriptive text explaining the diagram.*

## Requirements

*This section provides a summary of the requirements for the <Component Name>.*

*Provide your understanding of the requirements, both functional and nonfunctional. Reference the provided Requirements and System Architecture documents. Do not cut and paste from the requirements document.*

*The Product Manager and others can read this to understand what requirements your design will support. There is already a requirements doc, so keep this brief and to the point, highlighting the important requirements that the design is addressing. Structure in a way to provide a requirements checklist for your design.*

## Use Cases

*Enumerate the use cases supported by the design,  
This design supports the following use cases:*

*Include a UML Use Case Diagram.*

*Include descriptions of each of the actors and use cases.*

## Implementation

*This section of the document will describe the implementation details for ...*

*The implementation section should cover the following topics:*

- *What are the classes, and their properties, associations, and methods?*
- *What are the important interfaces and how they will be implemented?*
- *How are the requirements addressed?*

How does this module fit into the overall architecture? Include a UML Component Diagram to explain.

## Class Diagram

*The following class diagram defines the classes defined in this design. Remember to include exception classes.*

*UML CLASS DIAGRAM GOES HERE*

## Class Dictionary

*This section specifies the class dictionary for the class ... defined within the package ...*

### **CLASS 1**

*Class 1 description*

#### **Methods**

Method Name	Signature	Description

**Properties**

Property Name	Type	Description

**Associations**

Association Name	Type	Description

**CLASS 2**

...

**Implementation Details**

*Explain the details of the implementation.*

*How do the various parts fit together or interact?*

*How does the design address the requirements? Justify your design decisions and how they address the requirements.*

*Some implementation details may be addressed in the class dictionary, but for things that are not, describe them here.*

*Remember to reference the requirements from the body of the design document to show how your design is addressing the requirements.*

Add UML Sequence Diagrams or Activity Diagrams to explain important workflows.

**Exception Handling**

*Provide details on your exception handling. What types of exceptions are expected and how are they handled by the design? Describe your exception classes and their properties.*

**Testing**

*Provide a testing strategy for testing the component.*

- *Functional*
- *Performance*
- *Regression*

- *Exception Handling*

## Risks

*Document any risks identified during the design process.*

*Are there parts of the design that may not work or need to be implemented with special care or additional testing?*