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# Domain Model Specification

for

## BISI - Image APP

**Version 2.0**

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## Revision History

[illegible]

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# 1. Introduction

## 1.1 Document Overview

This document will first introduce the purpose and abbreviations used in this document (in this section). Following this, the overall system will be briefly described. Then, the system’s conceptual classes and their context will be discussed. This will be accompanied by a domain model diagram.

## 1.2 Document Purpose

The purpose of this document is to describe how the system fits into the target domain by breaking it up into conceptual classes and describing their relationships to each other.

## 1.3 Definitions, Acronyms, and Abbreviations

Term	Definition

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## 2. System Overview

### 2.1 System Description

The system's main requirement and primary purpose is to enable a user to take an image of an object, upload the image to an image processing model, and have it respond with a labeled classification of the object. This labeled classification is linked to an existing product in a supplier's catalog of products.

### 2.2 System Components

- **User:** Two types of users exist in the system domain. The first is a warehouse staff member, who wants to use the system to get a classification for the object that he/she wants to store, pack, or manage. The second is a customer who wants to buy a product from the supplier but does not know what the product specifically is. Both types of users upload an image in order to receive a product classification.
- **Image:** An image of an object is captured via a webcam or mobile device camera and then uploaded to the image processor.
- **Image Processor:** The image processor takes the uploaded image and turns it into an object classification.
- **Product:** Products are specified as a type of consumable/goods. In this domain, the products are specifically engineering consumables. Each of these products have a labeled classification, and each product belongs to a catalog.
- **Catalog:** A catalog is a list of all products owned by a supplier.
- **Supplier:** A supplier is a company that owns a catalog of products.

### 2.3 Domain Model Diagram

The Domain Model Diagram can be found at Figure 2.1.

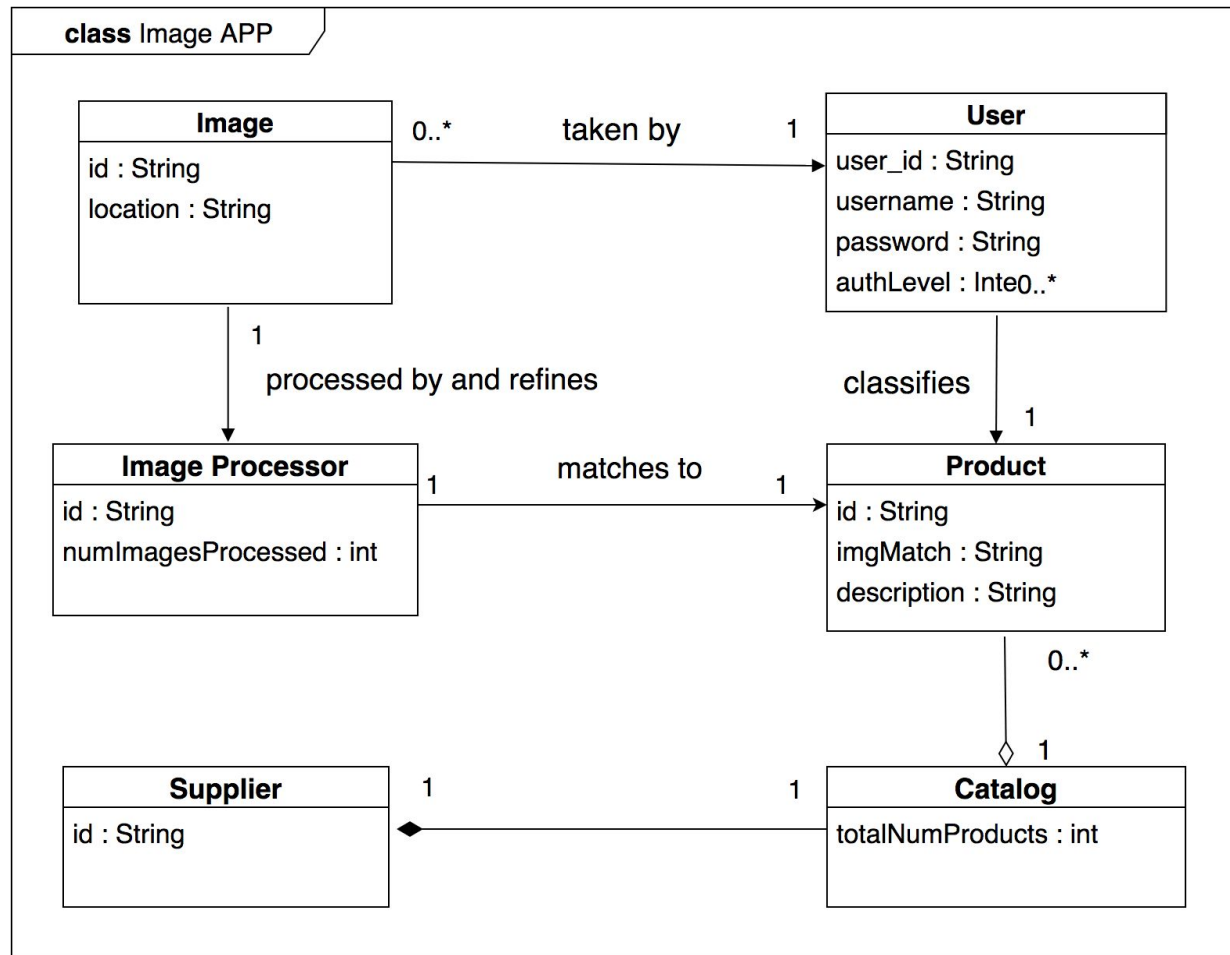


Figure 2.1

