Software Requirement Specification (SRS)

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Contents

Version Description

Version	Description	Date Added
1.0	Initial release for Snapshot 1	November 30, 2025

1 Introduction

1.1 Purpose

The main purpose of a Software Requirement Specification document is to serve as a detailed, structured guide that describes a software system's purpose, features, and requirements, acting as a blueprint for development and a contract between stakeholders. It will minimize misunderstandings by providing a single source of truth for what the software must do, and it will also ensure the final product meets business and user needs.

1.2 Intended Audience

The primary audiences for an SRS document are diverse, including technical team members such as developers and testers, project management staff, and non-technical stakeholders such as clients, end users, and leadership. For this document to reach this broad audience, the document needs to be clear, well-structured, and to define terms appropriately so that everyone can understand the project's requirements.

1.3 Overview

The software "Project Mirage" is a command-line utility designed for organizing, processing, and culling photos and videos. The software organizes photos and videos from specified directories and their sub-directories. It supports multiple file formats, including JPEG, PNG, HEIC/HEIF, MP4, and MOV.

2 External Interface Requirements

2.1 User Interface

Users will interact with the Project Mirage software via a CLI. The software is run as a Python utility, where users execute specific commands and provide arguments to control its operations.

- The users will launch the program from a terminal or command prompt, and it will invoke different functionalities such as organizing files, detecting duplicates, or performing aesthetic assessment.
- Users specify input directories, desired output configurations (like sorting by date), and other operational parameters using various flags and arguments within the command.
- A key interactive feature is the ability to perform a "dry run". This allows users to preview the exact changes the software would make to their files and directories without actually implementing them, enabling confirmation before committing to any permanent modifications.
- The system provides feedback in the console, informing the user about the files processed, duplicates found, and the actions taken (or proposed, during a dry run).

2.2 Software Interfaces

Discuss APIs, external systems, and other relevant topics.

3 Legal and Ethical Considerations

3.1 Data Storage and Privacy

Explain data handling and protection.

3.2 Ethical Issues

Address consent, bias, misuse, and other relevant issues.

4 Glossary

Acronym	**Definition**
SRS	Software Requirement Specification
JPEG	Joint Photographic Experts Group
PNG	Portable Network Graphics
HEIC	High Efficiency Image Container
HEIF	High Efficiency Image File Format
MP4	MPEG-4 Part 14
MOV	QuickTime Multimedia
CLI	Command-line Interface