**Software Requirements Specification**

**for**

**Snap**

**Version 1.0**

**Prepared by Jonnelin Marzielli Leonardo**

**June 2020**

Table of Contents

[1.0 Introduction 3](#_Toc43925744)

[1.1 Purpose 3](#_Toc43925745)

[1.2 Scope 3](#_Toc43925746)

[1.3 Product Perspective 3](#_Toc43925747)

[1.3.1 System Interfaces 3](#_Toc43925748)

[1.3.2 User Interfaces 3](#_Toc43925749)

[1.3.3 External Interfaces 3](#_Toc43925750)

[2.0 Requirements 4](#_Toc43925751)

[2.1 Search Queries 4](#_Toc43925752)

[2.2 Image Results Grid 4](#_Toc43925753)

[2.3 User Interface 4](#_Toc43925754)

[2.4 Media dIsplay 4](#_Toc43925755)

[2.5 System 4](#_Toc43925756)

# Introduction

## 1.1 Purpose

This document specifies the functionality and features of the software, Snap.

## 1.2 Scope

This application allows users to:

* Search images
* View images

Possible additional features can include:

* Search videos
* View video playback
* Speech-to-text searching
* Filtering
  + Photographer
  + Image
    - Resolution
  + Video
    - Resolution
    - Duration
* Sorting
  + Photographer
* Configurable settings
  + Number of results per page
  + Turning search while typing on or off

## 1.3 Product Perspective

### 1.3.1 System Interfaces

This application runs in Android phones and tablets

### 1.3.2 User Interfaces

The application GUI includes a search bar and a grid to display images

### 1.3.3 External Interfaces

This application uses the Pexels API to fetch media data from Pexels, a stock photo and video library website

## Requirements

### 2.1 Search Queries

S01 – The application shall allow the user to type text to search

S02 – The application shall perform search functionality as the user types; each type event shall cancel a currently running search operation, if one exists, and perform a new search operation

S03 – The application shall allow the user to click a button to delete all text input

### 2.2 Image Results Grid

R01 – The application shall display a grid of images to the user, based on their search query

R02 – The application shall fetch and load 30 images at a time

R03 – The application shall fetch and load the next 30 images upon the user scrolling to the last row of loaded images

R04 – The application shall display an indefinite progress bar during the process of loading images, before the images are displayed

R05 – The application shall display 3 images per row

R06 – The application shall display each image on a 1:1 aspect ratio

R07 – The application shall inform the user if there are no results

*XXX – The application shall cache the loaded images of the previous set of 30 images*

### 2.3 User Interface

U01 – The application shall support both portrait and landscape mode

U02 – The application shall support different screen sizes

U03 – The application shall support different screen pixel densities

### 2.4 Media dIsplay

M01 – The application shall display the chosen image on a new screen

M02 – The application shall allow users to pinch to zoom in and out

M03 – The application shall allow users to drag the image around while zoomed in

M04 – The application shall allow the user to click a button to show more information about the image

### 2.5 System

X01 – The application shall notify the user of network errors

X02 – The application shall notify the user of all errors