Requirements and Analysis Document for PhotoChop …

Henrik T, August S, Hampus E, Anthony T

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1.0

1 Introduction

The project aims to implement a raster graphics editor program which allows users to create and edit images. Through the use of digital tools and features, the process of photo editing and creating art can be made considerably more efficient. The purposes of a graphics editor range from e.g. photo editors enhancing the quality of a picture through modification of attributes, to artists creating art using digital brushes in combination with graphics tablets.

General characteristics:

- The application will initialize a blank project on startup.

- The application will use a GUI very similar to Photoshop/Paint.

- The GUI of the application stays consistent.

- The application will save changes made to the settings of the program automatically when applied.

- The application will be used offline.

- A project must be saved to a location in the disk if it does not exist in the disk.

- The application will ask the user to save unsaved projects when closing the application.

- The project can not be saved if there are no changes made since the last save.

1.1 Definitions, acronyms, and abbreviations

2 Requirements

2.1 User Stories

Story Identifier: 1
Story Name: Initialize a project
Description: As a user, I want to create new projects to initialize projects.
Confirmation:
Functional requirements:

- Can I create a new project if I click on "New..." button?

Non-functional requirements:

Story Identifier: 2
Story Name: Save project
Description: As a user, I want to save projects to avoid losing progress.
Confirmation:
Functional requirements:

- Can I save my project by clicking on a button?

Non-functional:

Story Identifier: 3
Story Name: Open project from desired location
Description: As a user, I want to open existing projects from different locations/directories to continue working.
Confirmation:
Functional requirements:

- Can I open a project by clicking on a button and locating the project in the disk?

Non-functional requirements:

Story Identifier: 4
Story Name: Draw on canvas
Description: As an artist, I want to draw and paint pictures through digital means because it is more efficient in terms of availability of tools and photo editing fea-

tures.
Confirmation:
Functional requirements:

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Non-functional requirements:

Story Identifier: 5
Story Name: View and edit individual pixels
Description: As a pixel artist, I want to view and edit individual pixels to create images with pixel perfect precision.
Confirmation:
Functional requirements:

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Non-functional requirements:

Story Identifier: 6
Story Name: Resize and crop images
Description: As a user, I want to resize and crop my images to adjust to the desired size and/or area of a image.
Confirmation:
Functional requirements:

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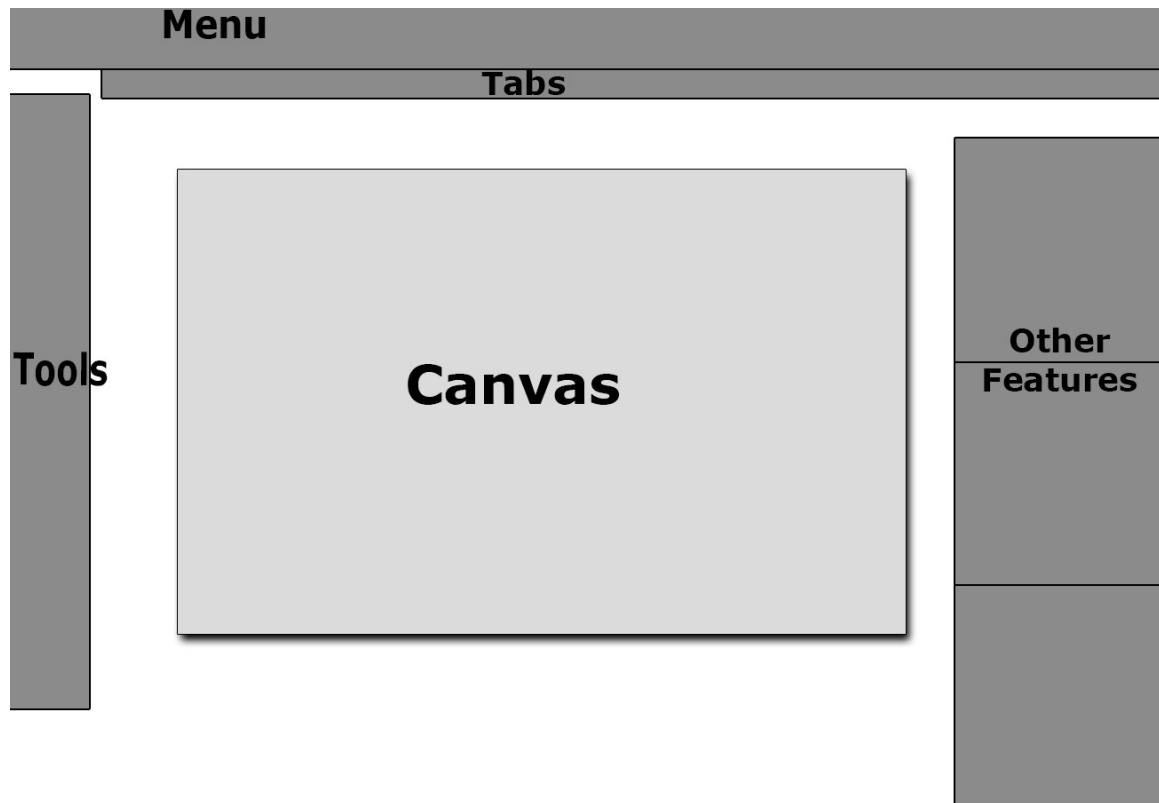
Non-functional requirements:

2.2   User interface

Figure 1: Show our initial sketch of the application

3 Domain model

3.1 Class responsibilities

4 References