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CSCI 4600

Dr. Nicholson

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Vision Document

1. Introduction
   1. Purpose

The Purpose of this vision document is to outline and give an overview of the product we will be making as a project for the Software Design and Development class.

* 1. Scope

The scope of this document includes all the programs, projects, and applications we will need. We will require Visual Studio 2015 Enterprise edition as an IDE and tools for programming in the language “C#”. We will also require GitHub accounts to create a repository and allow us to work separately but still have access to the same project as a team.

1. Positioning
   1. Business opportunity

The business opportunity that is addressed by this project is that we can make an open source image processor and editor that will provide a relief from having to pay a monthly subscription to Adobe to use their products. The goal is to become a widely utilized image editor, collecting revenue from donations and slight advertising.

* 1. Problem statement

The problem of limited features and interface complexity for free image editing applications affects a wide range of consumers. The impact of the problem is that several options for image editors are widely used by consumers. A successful solution would include premium features that are simple to use.

1. Stakeholder and user description

3.2. Stakeholder summary

The group members are the stakeholders. They are Christopher Froeba and Zachary Travis. The group members role in the development process is to come up with an idea for the project, design it, and then execute it.

3.3. User types

The user type is someone who needs to use an image editing or processing software.

3.5. Stakeholder profiles

* Representative: Christopher Froeba
* Description: Group member
* Type: Senior CSCI Major, have passed CSCI 3005
* Responsibilities: As a group member, responsibilities include designing, implementing, and presenting the project
* Success criteria: Success is defined by getting a working fully functional project completed. Rewards are passing the class.
* Involvement: Involved in everything in the project from choosing the project to design, implementation, and presentation.
* Deliverables
* Comments: Skills would include proficiency with high level mathematics and working with linear algebra concepts. Has prior experience working with C# and WPF. Some issues would be lack of experience in image editing through software.
* Representative: Zachary Travis
* Description: Group member
* Type: Senior CSCI Major, have passed CSCI 2080.
* Responsibilities: As a group member, responsibilities include designing, implementing, and presenting the project.
* Success criteria: Success is defined by getting a working fully functional project completed. Rewards are passing the class.
* Involvement: Involved in everything in the project from choosing the project to design, implementation, and presentation.
* Deliverables: Production of code and ideas are delivered to the group.
* Comments: Skills would include proficiency with high level mathematics and working with linear algebra concepts. Has prior experience working with C# and WPF. Some issues would be lack of experience in image editing through software.

1. Product overview
   1. Product perspective

Our product will be stand-alone software but may be useful editing images for social media or marketing.

* 1. Summary of capabilities

This software will deliver a simple, custom interface for image editing. Users will be able layer designs on top images, convert formats, and alter their images color and size properties.

* 1. Assumptions and dependencies

Windows 10 will be the implied operating system (with standard or better hardware). The user will provide the images for processing. Image files may be limited to .jpeg and .png types.

1. Product features
   1. Select an image from disk
   2. A display area for showing and editing the image
   3. Window for image processing functions i.e. slider bars to changing colors
   4. Interface for a toolbar to select which features to use
   5. Cropping features
   6. Resizing/scaling of an image
   7. Erasing
2. Constraints

Our team is limited in experience; we will be learning about digital imaging and its processing as we go. We are also learning concepts about software engineering for the project.

1. Other product requirements

Our product assumes that users do not require handicap assistance for using the product and that English may be understood.