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| Project Name:  PictureGram® | |
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Document history

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| --- | --- | --- | --- |
| Version | Date | Author | Comment / Change |
| 0.1 | 04.03.2019 | Jun Huang | Added some content for sections “Background/Project Purpose”, “Goals”, “Project Product Description”, “Delivery Units”, “Project Success Criteria”, “High-level Risks”, “Key Stakeholders”, and “Annex”. Added Project Logo. |
| 0.2 | 07.03.2019 | Jun Huang, Andy Lu, Mitchell Yee | Removed sections “Annex (Glossary and Abbreviations)”, “Project Budget (Overview)”. Revised some sections. |
| 0.3 | 07.03.2019 | Mitchell Yee | Edited “Product Scope Description”, “Technical Requirements” and “Limits and Exclusions”. |
| 0.4 | 08.03.2019 | Jun Huang | Revised sections “Product Scope Description” and “Project Success Criteria”. Fixed date format inconsistency. |
| 1.0 | 08.03.2019 | Jun Huang | Same as v0.4 but it’s released |

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# Background/Project Purpose

Our team aims to create a basic, dedicated photo and image sharing web application to demonstrate our full-stack web development skills – specifically with languages HTML, CSS, JavaScript, PHP, and MySQL. This project is vital for us to develop and practice such skills as well as to pass this course.

This project will create a web application with a front-end user interface, a MySQL database, and a PHP backend running on a local Apache web server that will control the interaction and data passed between the user and the database. The application will improve upon traditional physical, person-to-person photo sharing through improved accessibility and shareability.

# Goals

## Goals

| Goal | Description |
| --- | --- |
| Create application front-end | Create the application’s user interface with HTML and CSS files. |
| Create application back-end | Creation the application’s server logic with PHP files to interface with the database. |
| Program Database | Convert the E-R model into MySQL code and the database tables. |
| Complete All Application Testing | The entire application’s structure and functionality will be tested thoroughly to ensure the application is working as intended and is free of major bugs. |

## Milestones

| Schedule | Description |
| --- | --- |
| 11.03.2019 | Approved Project Charter |
| 04.04.2019 | Project Presentation |
| 04.04.2019 | Final Report Delivery |

# Project Product Description

## Product Scope Description

Creation of a complete PHP-based web application with a user interface, database, and application logic (backend). The application will feature an image sharing service that allows users to search for other users, as well as comment on other user’s image posts.

## Technical Requirements

1. Users can access the application using a web browser from any computer with an internet connection.
2. Users will log in the application through a web-based user interface to access and use the application’s features and functions.
3. Users will be able to upload their own images or pictures electronically to the application.
4. Users will be able to view and comment on image posts submitted by themselves or any other user on the platform.
5. Users will be able to view, upload, delete, and edit their own uploaded image posts.
6. Actions and changes triggered by a user must be visually and internally reflected in the application and its database in no more than 10 minutes after being initiated.

## Limits and Exclusions

1. The application will only support common electronic image file formats that are raster-based such as .png, .jpg, and .jpeg
2. The application will not support audio and video multimedia file formats.
3. The application will exclude functionality that will track the information needed for audits and other legal or regulatory compliances.
4. The project will only include the software application; the project will exclude the hardware and network infrastructure required to actively host the application online on the Internet.
5. The application will store a maximum of 5GB worth of electronically stored images due to limited resources and assets.

# Delivery Units

## Delivery Units/Services

| Delivery unit | Description/Comment |
| --- | --- |
| Project Charter | Final version of the charter approved. |
| Project Report | A concise document that compiles your whole experience with the project. |
| Design document | Includes class diagram and E-R diagram. |
| Sample Data | Specimen user accounts, electronic images, and other assets used to test and demonstrate the application’s functionality. |
| Application Source Code | All the programming code of various languages used to construct and built the entire application. |

# Project Success Criteria

| Project success criteria |
| --- |
| The project report addresses of reasoning used to generate the design of the database. Data needed and information generated. |
| Internal and conceptual level definitions are free of errors and complete. |
| The queries created retrieve useful information for the application. |
| The project presentation conveys a concise summary of the projects experience. |
| The team shows understanding of the project, conceptual design, HTML, CSS, MySQL, and PHP. |

# High-level Risks

| Risk | Possible impacts on the project |
| --- | --- |
| Group teamwork | Project delays, missing or malfunctioning features. |
| Insufficient resources | Missing or incomplete features. |
| Lack of slack time | Missing or incomplete features. |
| Incomplete written documentation | Misconfigured or missing features, delays. |
| Inconsistent progress reporting | Project delays or unexpected feature malfunctions. |
| Scope creep | Exceeding the project’s original coverage. |

# Key Stakeholders

| Name | Role |
| --- | --- |
| Jun Huang | Back-End Web Developer, Quality Control Tester |
| Andy Lu | Team Lead, Full-stack Web Developer |
| Mitchell Yee | Back-End Web Developer, Quality Control Tester |

# Project End

**Planned project end:**

| 04.04.2019 |
| --- |