UNCG

**System Requirements Document**

**System Name**

Abstract

The UNCG Digital Billboard streams up-to-date information for students, faculty, and visitors.

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# Introduction

## System Description

The UNCG Digital Billboard will display current information from UNCG’s news posts, Instagram®, and YouTube® channel.

## Goals and Objectives

Display the following information on the UNCG Digital Billboard:

* Title or caption and image from UNCG’s news post
* Title or caption and image from UNCG’s Instagram®
* Title and video from UNCG’s YouTube® channel

## System Features

* Administration Module to allow changing the information displayed
* Display that simulates Digital Signage technology

# Functional Requirements

## Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | Display content from UNCG’s news posts, Instagram®, and YouTube® channel in a Digital Signage format | High |
|  | Only display one content item at a time | High |
|  | Allow the administrator to change the content displayed | High |
|  |  |  |

## Business Rules

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | Users can view the displayed content | High |
|  |  |  |

## External Interface Requirements

### User Interface Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | Billboard that displays content | High |
|  | Administrative module | High |
|  |  |  |

### Software Interface Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | UNCG’s news post | High |
|  | UNCG’s Instagram® | High |
|  | UNCG’s YouTube® | High |
|  |  |  |

### Hardware Interface Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | N/A |  |

### Communication Protocols for Interfaces

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | HTTP to access available content | High |
|  |  |  |

# Non-Functional Requirements

## Infrastructure Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | LCD Monitor that serves as Digital Billboard | High |
|  | GitHub to provide web services and database | High |
|  |  |  |

## Performance Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | ???? how often does it update - how current is information |  |
|  |  |  |
|  |  |  |

## Security Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | Access to UNCG’s content | High |
|  |  |  |

## Availability Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | Runs 8am – 8pm | High |
|  |  |  |

## Reliability Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | UNCG’s Digital Billboard will display emergency information and therefore, must display the latest information within ?? minutes of content update. | High |
|  |  |  |

## Scalability Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | System will have the ability to add other content in the future, but adding content will require code changes. | High |
|  |  |  |

## Maintainability Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | System will be developed using LAMP to ensure maintainability. | High |
|  |  |  |

## Backup / Disaster Recovery Requirements

| ID | Requirement Description | Priority |
| --- | --- | --- |
|  | GitHub provides backup and disaster recovery. | High |
|  |  |  |

## Demographic Requirements

| ID | User Type | Device Type | Location | Usage | # Users |
| --- | --- | --- | --- | --- | --- |
|  | UNCG Students | Billboard | On Campus | View | Unlimited |
|  | UNCG Faculty | Billboard | On Campus | View | Unlimited |
|  | UNCG Visitors | Billboard | On Campus | View | Unlimited |
|  | System Administrators | Computer |  | Access to GitHub to update system | 4 |
|  |  |  |  |  |  |

## Training Requirements

| ID | User Type | Requirements Description |
| --- | --- | --- |
|  | N/A |  |

# Reviewers

|  |  |  |
| --- | --- | --- |
| Name | Position | Date |
| Mikael Williams | Team Lead |  |
| Michael McCulloch | Developer |  |
| Jacob Oleson | Developer |  |

# Appendix

## Supporting Documents

List any documents or other resources referenced by this SRD, including hyperlinks (e.g., user interface style guides, interface specifications).

## Terms, Definitions and Acronyms

List any terms, definitions, or acronyms that may not be familiar to the reader.

## Revision History

|  |  |  |  |
| --- | --- | --- | --- |
| Version # | Date of Change | Summary of Change | Author |
|  |  |  |  |