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| SPECIAL TOPICS  PERIOD 4  Functional Specification Document  <The Zucc> |

**AUTHORS**

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# Introduction

*The Zucc is a web application developed to address the growing field of drawing and design applications.*

## Project Scope

*<Describe the project scope that addresses the business need or problem. Include high-level information on the solution>.*

# System/ Solution Overview

*<Provide a short description of the software and solution being specified and its purpose, including relevant benefits, objectives, and goals.>*

## 2.1 Work Breakdown Structure

A diagram of a company

Description automatically generated

# Functional Specifications

## 3.1 Log-in Screen

### 3.1.1 Purpose/ Description

*The Login Screen allows users to log in to existing accounts and navigates to a create account page if they do not have an existing account.*

### 3.1.2 Use case

|  |  |
| --- | --- |
| **UC-1** | **Login** |
| **Trigger** | *Navigating to the website* |
| **Main Success Scenario** | 1. *Visit Website* 2. *Enter Username* 3. *Enter Password* 4. *Log in* 5. Redirected to drawing interface |
| **Priority** | *High* |

**Form Elements:**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Label** | **UI Control** | **Mand?** | **Editable** | **Data Type** | **Data Example** | **Data Source** | **Validation** | **Error Messages** |
| User name | textbox | Yes | Yes | String | yayausername | User entry | Valid user name | “Invalid Username” |
| Password | Textbox | Yes | Yes | String | Password123 | User entry | Valid password | “Invalid Password” |
| Show Password | Checkbox | No | Yes | n/a | Checked/unchecked | User select | none | none |

**Buttons, Links and Icons:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Button, Link, Icon Label** | **Click Event** | **Other Event** | **Visible** | **Enabled Vs Disabled** | **Navigate To** | **Validation** |
| *Login* | *Verify if user name and password are correct. If yes, log the user into the system.* | *none* | *Always* | *N/A* | *Drawing Interface* | *Verify if user name and password match with registry data.* |

## 3.2 Drawing Interface

### 3.2.1 Purpose/ Description

*The drawing interface allows the user to draw, erase, and save their drawing as an image.*

### 3.2.2 Use case

|  |  |
| --- | --- |
| **UC-1** | **Drawing** |
| **Trigger** | *After Logging in* |
| **Main Success Scenario** | 1. *Logged in* 2. *Draw* 3. *Save drawing as image* |
| **Priority** | *High* |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Field Label** | **UI Control** | **Mand?** | **Editable** | **Data Type** | **Data Example** | **Data Source** | **Validation** | **Error Messages** |
| Canvas | Click and Drag | No | Yes | PNG | n/a | User entry | none | none |

**Form Elements:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Button, Link, Icon Label** | **Click Event** | **Other Event** | **Visible** | **Enabled Vs Disabled** | **Navigate To** | **Validation** |
| *Brush* | *Brush tool is selected, user is able to draw* | *On hover turns the button into a different color* | *Always* | *Initially Enabled* | *none* | *none* |
| *Eraser* | *Eraser tool is selected, user is able to erase* | *On hover turns the button into a different color* | *Always* | *Initially disabled* | *None* | *None* |
| *Size slider* | *Dragging the slider controls the size of the tool* | *None* | *Always* | *Enabled* | *None* | *None* |
| *Colors* | *Selected color will be drawn with the brush tool* | *None* | *Always* | *Enabled* | *None* | *None* |
| *Color picker* | *User will be able to pick a RBG value color, including a dropper tool* | *None* | *On click* | *Enabled* | *None* | *none* |
| *Clear Canvas* | *The entire canvas is erased* | *None* | *Always* | *Disabled* | *None* | *None* |
| *Save as Image* | *Saves the drawing as a PNG* | *None* | *Always* | *Disabled* | *None* | *None* |

**Buttons, Links and Icons:**

# Data Storage

*The Username and password will be saved as well as the image that is saved when the user clicks the (Save as Image) button. The user can then add to their existing works or create new ones on their account.*