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Binary Bandits

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SmArtboard System Requirements Document

DRAFT

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# **Introduction (MD)**

The purpose of this document is to clearly outline the functionality of the SmartBoard app and showcase its unique features, user-friendly interface, and sleek design -- all intended to enhance collaboration and engagement between educators and their students. It highlights key components such as course and assignment layouts, an intuitive calendar, and interactive collaborative areas. This document also details the system requirements necessary for successful deployment and operation of the app, ensuring that all planned features perform as expected across supported devices to deliver a seamless user experience.

# **Description Model (MD)**

**Courses**

**Select Courses:** Users can browse and select a class from the available courses they are enrolled in. After selecting, that class's content will be displayed including assignments, announcements and resources.

**Design**: Available courses are displayed on tiles that can be customized by the professor.

**Customization**: Professors can customize the tiles for their class, they can either choose a landscape template from a pre-selected list of 20 landscape images created by the application or add their own unique image that will be scaled to fit the tile. They can also customize the text of their class including the font and the color as well as the size. Allowing for customization is a subtle touch that can allow our app to have a unique and different look for everyone that changes every semester.

**Assignments**

**Select Assignment:** Within a course users can access assignments posted by the professor. Each assignment has due dates and submission options that can be set by the professor such as scheduled release of an assignment.

**Due Dates:** Professors may set this for any future date. These will be displayed on the assignment in a date format “-Day of the week - month - day of the month - year” (Ex. Monday, April 10, 2025). They will also automatically be placed on the student's calendar based on what the professor sets the date to be.

**Submission Options:** Users will be able to upload comments or files from their computer to satisfy whatever the assignment requires. After this they will be able to select the “turn in” button and submit their assignment.

**Calendar**

**Select Course:** The user can filter the calendar view based on a specific course or can view all of their assignments at once.

**Select Date:** Allows the user to view events or assignments on a specific date.

**Layout**: Professors will be able to set due dates for their assignments and the assignment will automatically be added to the calendar. The student will be able to click on the assignment listed on the calendar and be brought to the assignment page to view the work they have to do.

**Customization**: Students will be able to customize how they view their calendar to view assignments based on classes or based on due dates such as “Due this week, due next week” or “For CMP-120” They can also choose no options and see what is due for whatever assignments all of their professors have posted.

**Forum**

**Create New Thread:** Users can create new discussion topics related to the course or a specific assignment.

**Reply:** Users in the class as well as the professor can respond to the thread and collaborate, ask questions and discuss whatever else they need to.

**Like:** Enables users to react to posts with a like. Allows for people to engage with the conversation further or recognize that they saw a message.

**Resources**

**Select Course:** Users can filter out supplemental resources by course to find material such as textbooks, notes or any other resources the professor provides.

**Download Resource:** Allows the user to open or download any files posted such as lecture slides, textbooks, readings or any other supplemental material.

# **Class Diagram (AV)**

*Available within the smartboard GitHub repository*

# **Use Case Diagram (AT)**

*Available within the smartboard GitHub repository*

# **Use Case Scenarios (AT)**

*Available within the smartboard GitHub repository*

# **System Sequence Charts (MM)**

*Available within the smartboard GitHub repository*