

Requirements Specification Document
Storyboard App
Storyboard Creation iOS iPad Application

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1 Scope

1.1 Identification

This Software Requirements Specification (SRS) documents the requirements for the Storyboard iOS iPad application, called **Storyboard**.

1.2 System Overview

Storyboard is an iOS application specifically designed for the iPad machine.

The application consists of four views: *home*, *open-project*, *details*, *workstation*.

When the application is launched, the user is taken to the *home view*. The user may choose (via buttons) to either create a new project or open a previous project. Opening an existing project takes the user to the *open-project view*. Creating a new project brings the user to the *details view*.

The *open-project view* presents the user will all past projects in a tile format. The names and details of each project can be found in this view. Selecting a project and opening it launches the *workstation view*.

The *details view* provides two text fields for the project name and project description. The default values of the project name and description are (respectively) *Untitled* and *Project Description*. Creating a project (via button labeled *Create Project*) launches the *workstation view*.

The *workstation view* displays one frame (a white rectangular canvas) at the screen's center in which the user may draw/sketch with a finger or a stylus (recommended). The frame will be flanked on each side (top, bottom, left, right) with a menu or toolbar. One side will contain a menu with options relating to project management, such as saving the project, closing the project, and changing project details. Another side will contain a toolbar with tools relating to drawing onto/editing objects on the canvas, such as a color canvas and an objects library. One other side will contain options relating to the canvas itself, such as selecting a different layer of the frame to edit (background, foreground) and selecting a different frame within the project to work on. Lastly, there will be a side containing a text field for notes, where the user may type in notes describing the contents of the frame.

1.3 Document Overview

This document is organized as follows. Section 2 presents tables containing related documents applicable to this program. Section 3 contains more in-depth descriptions of the system operation. Section 4 contains required supporting resources. Section 5 presents the maintenance information.

The following table defines the language used in specifying requirements in this document. There are three levels of specification.

Table 1 – Document Definitions

Type	Definition
Shall	Expresses a mandatory provision.
Should	Expresses a non-mandatory provision.
Will	Declaration of a purpose such as a design goal

2 Applicable Documents

2.1 *iOS Developer Documents*

Table 2 – Applicable Industry Standard Documents - iOS

Document Number	Document Title	Date/Revision
TP40007898-CH1-SW1	iOS Technology Overview	2012-09-19
TP40008246	What's New in iOS	2013-01-28
TP40006890	UIImage Class Reference	2013-01-28
TP40009541	Event Handling Guide for iOS	2013-01-28

2.2 *Mac Developer Documents*

Table 3 – Applicable Industry Standard Documents - Mac

Document Number	Document Title	Date/Revision
TP40010215	Xcode User Guide	2013-01-28

3 System Operation and Requirements

3.1 Subsystem Divisions

The Storyboard application will be divided into four main sections. The first section, called Home View, controls project management. The second section, called Open-Project View, controls which past project the user would like to open and edit in the *Workstation View*. The third section, called Details View, controls the project title and description. The fourth section, called Workstation View, controls and edits the frames within a project.

3.2 Home View

- 3.2.1 The home view shall contain two buttons
- 3.2.2 One button labeled “Open Project” in the home view shall bring the user to the open-project view
- 3.2.3 One button labeled “New” in the home view shall create a new project and bring the user to the details view

3.3 Open-Project View

- 3.3.1 The open-project view shall display selectable tiles that each represent a project previously created by the user
- 3.3.2 A tile button in the open-project view shall be highlighted when a user selects that tile by tapping it
- 3.3.3 One tile at a time may be selected in the open-project view
- 3.3.4 The open-project view shall contain two buttons
- 3.3.5 One button labeled “Back” in the open-project view cancels any selection of the project tiles and returns the user to the home view
- 3.3.6 one button labeled “Open” in the open-project view opens the project selected by the user in the workstation view
- 3.3.7 the “Open” button in the open-project view will remain disabled when initialized until the user selects a project tile

3.4 *Details View*

- 3.4.1 The details view shall contain two text fields and two buttons
- 3.4.2 One text field labeled “Project Title” in the details view shall allow the user to enter the title of the project, with the default value “Untitled”
- 3.4.3 One text field labeled “Project Description” in the details view shall allow the user to enter a description of the project, with the default value “None”
- 3.4.4 One button labeled “Back” in the details view cancels any input entered into either text field and returns the user to the home view
- 3.4.5 One button labeled “Create” in the details view creates a new project in the workstation view
- 3.4.6 The values of the newly created project’s name and description shall be the input entered into the corresponding text fields in the details view

3.5 *Workstation View*

- 3.5.1 The workstation view shall contain five panels
- 3.5.2 One panel in the workstation view shall contain a blank white canvas in which the user may draw/sketch
- 3.5.3 One panel in the workstation view shall contain a menu bar with options relating to project management
 - 3.5.3.3 these options will include saving the current project and exiting the application
- 3.5.4 One panel in the workstation view shall contain a toolbar with tools relating to drawing onto/editing objects on the canvas
 - 3.21.1 these tools will include a color palette for sketching and an object library
- 3.5.5 One panel in the workstation view shall contain options relating to the canvas itself
 - 3.22.1 these options will include selecting the layer within the canvas the user would like to edit (background, foreground) and selecting the frame within the project to edit
- 3.5.6 One panel in the workstation view shall contain a text field for notes relating to the currently displayed frame

4 Computing Resource Requirements

4.1 Computing Hardware Requirements

- 4.1.1 The storyboard application shall execute only on an Apple iPad tablet computer
- 4.1.2 The storyboard application shall execute on any Apple iPad tablet computer

4.2 Computing Software Requirements

- 4.2.1 The iOS Simulator app must be installed on a Mac computer or virtual machine
- 4.2.2 The Xcode app must be installed on a Mac computer or virtual machine
- 4.2.3 The iOS SDK must be installed on a Mac computer or virtual machine
- 4.2.4 The storyboard application shall be able to execute using the iOS Simulator app

5 Qualification Provisions

5.1 Qualification Methods

Table 4 – Qualification Method Descriptions

Qualification Code	Qualification Method	Description
A	Analysis	The process of accumulated data obtained from other qualification methods. Examples are reduction, interpretation, or extrapolation of test results.
I	Inspection	The visual examination of software item code, documentation, etc.
T	Test	The operation of the software item, or a part of the software item, using instrumentation or other special test equipment to collect data for later analysis
D	Demonstration	The operation of the software item, or a part of the software item, that relies on observable functional operation not requiring the use of instrumentation, special test equipment, or subsequent analysis.
S	Special	Any special qualification methods for the software item, such as special tools, techniques, procedures, facilities, and acceptance limits.

5.2 Qualification Matrix

Table 5 – Qualification Matrix

Paragraph Number	Requirement	Compliance Synopsis	Verif. Method
3.1	shall consist of four different views	Observe the installation directory and verify that four files with file names ending with “View.h” and “View.m” exist	I
3.2	the home view shall contain two buttons	Observe the dock of the Interface Builder pane and verify that two button objects exist in the “home” view	I
3.3	one button labeled “Open Project” in the home view shall bring the user to the open-project view	Display the “home” view and select the “Open Project” button; observe that the “open-project” view is displayed.	D
3.4	one button labeled “New” in the home view shall create a new project and bring the user to the details view	Display the “home” view and select the “New” button; observe that the “details” view is displayed.	D
3.5	The open-project view shall display selectable tiles that each represent a project previously created by the user	Observe the current released version of the implementation code.	D

3.6	a tile button in the open-project view shall be highlighted when a user selects that tile by tapping it	Observe the current released version of the implementation code.	I
3.7	one tile at a time may be selected in the open-project view	Observe the current released version of the implementation code.	I
3.8	the open-project view shall contain two buttons	Observe the dock of the Interface Builder pane and verify that two button objects exist in the “open-project” view.	I
3.9	one button labeled “Back” in the open-project view cancels any selection of the project tiles and returns the user to the home view	Display the “open-project” view and select the “Back” button; observe that the “home” view is displayed.	D
3.10	one button labeled “Open” in the open-project view opens the project selected by the user in the workstation view	Display the “open-project” view and select the “Open” button; observe that the “workstation” view is displayed with the correctly selected project	D
3.11	the “Open” button in the open-project view will remain disabled when initialized until the user selects a project tile	Display the “open-project” view; observe that the “Open” button is grayed out and disabled until one project is selected from the “open-project” view.	I
3.12	the details view shall contain two text fields and two buttons	Observe the dock of the Interface Builder pane and verify that two button objects and two text field objects exist in the “details” view.	I
3.13	one text field labeled “Project Title” in the details view shall allow the user to enter the title of the project, with the default value “Untitled”	Observe the current released version of the implementation code.	I
3.14	one text field labeled “Project Description” in the details view shall allow the user to enter a description of the project, with the default value “None”	Observe the current released version of the implementation code.	I
3.15	one button labeled “Back” in the details view cancels any input entered into either text field and returns the user to the home view	Display the “details” view and select the “Back” button; observe that the “home” view is displayed.	D
3.16	one button labeled “Create” in the details view creates a new project in the workstation view	Display the “details” view and select the “Create” button; observe that the “workstation” view is displayed.	D

3.17	the values of the newly created project's name and description shall be the input entered into the corresponding text fields in the details view	Display the "details" view and select the "Create" button; observe that the "workstation" view is displayed with a blank white canvas, contains only one frame, and displays the appropriate project title and description that was entered in the previous "details" view.	I
3.18	the workstation view shall contain five panels	Observe the installation directory and verify that five ".nib" files exist with file names beginning with "workstation".	I
3.19	one panel in the workstation view shall contain a blank white canvas in which the user may draw/sketch	Observe the installation directory and verify that one ".nib" file for the canvas exists.	I
3.20	one panel in the workstation view shall contain a menu bar with options relating to project management	Observe the installation directory and verify that one ".nib" file for the menu-bar exists.	I
3.21	one panel in the workstation view shall contain a toolbar with tools relating to drawing onto/editing objects on the canvas	Observe the installation directory and verify that one ".nib" file for the tool-bar exists.	I
3.22	one panel in the workstation view shall contain options relating to the canvas itself	Observe the installation directory and verify that one ".nib" file for the canvas-options exists.	I
3.23	one panel in the workstation view shall contain a text field for notes relating to the currently displayed frame	Observe the installation directory and verify that one ".nib" file for the notes exists.	I