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# Test Design Specification

## AR Notebook

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## Revision History

Date	Revision Number	Description
10/25	Version 1.0	Created Template for the document. Created Priority Label Chart. Created TC1 - TC5
10/30	Version 1.1	Split document into two sections, brainstormed all possible test cases as a team and recorded titles
11/1	Version 1.2	All members filled in their test cases in Test Case Specifics doc



# Table Of Content

<b>Revision History</b>	<b>1</b>
<b>Table Of Content</b>	<b>2</b>
<b>1 Introduction</b>	<b>3</b>
1.1 Purpose	3
1.2 Project Overview	3
1.3 Assumptions	3
<b>2 References</b>	<b>3</b>
2.1 Test Case Priority Table	3
2.2 Validation and Defect Management	4
<b>3 Unit Testing</b>	<b>4</b>
<b>4 Functional Testing</b>	<b>8</b>
<b>5 Non Functional Testing</b>	<b>11</b>
<b>6 Integration Testing</b>	<b>12</b>
<b>7 Performance Testing</b>	<b>13</b>
<b>Traceability Matrix</b>	<b>15</b>



# 1 Introduction

## 1.1 Purpose

This test plan document describes the testing approach that will be followed throughout the testing life cycle of this project. The scope of test cases were written to cover all functional requirements, including stretch goals related to this project. It is expected that all test cases that are not written for stretch goal functional requirements will successfully pass before the release of this application to the App Store.

## 1.2 Project Overview

The AR notebook application is an augmented reality iOS application built using Apple's ARKit. This project is designed to make interacting and viewing notebooks more engaging. Upon completion of the project, this application will be available to be download in Apple's App Store. The AR notebook application will allow registered users to view, create, save, edit, share, and interact with a virtual notebook. ARNotebook users create notes by inserting images, inserting clipboard items, saving, and retrieving notebook information.

## 1.3 Assumptions

Unless it is explicitly stated, all test cases will be performed under the assumption that the user has a stable internet connection.

# 2 References

## 2.1 Test Case Priority Table

Throughout this document we will use the following labels within the priority section of each test case. Below is a reference as to how each priority should be interpreted.

Label	Description
High	Tests marked high are crucial to the functionality of the application. If these tests fail for any reason the application will fail or be blocked. This priority may also symbolize must-have items for the release of the application.





Moderate	Tests marked moderate are important to the flow of the application. If tests in this category fail the response of the application will be affected, however the application could continue running.
Medium	Tests marked medium are used to cover high level functions, and can include boundary and exception testing.
Low	Tests marked low priority will have little to no impact on the user's use of the application. Most of these failures should be handled and logged within the code base of the application.
Negative Test	Negative Tests are also included on high to medium priority items. These test cases are always expected to fail.

## 2.2 Validation and Defect Management

All test cases shall be executed in two cycles before the completion of the final prototype. It is expected that all tests will pass upon the release of AR Notebook into the App Store by the end of the semester 12/6/2017. If failing tests are present in the first cycle of testing all defects should be noted under the [issues tab of the Github repository](#) where the source code for this project is held. Logged defects should include a severity evaluation and reference to the failing test case number.

## 3 Unit Testing

The following test covers the smallest functionality of our application. These tests do not cover any communication between the application and an external database.

Test Case ID	Title	Description
TC-1	Grant Application Device Permission	This test case covers granting the application permission to access the device's camera and keyboard.
TC-2	Deny Application Device Permission	This is a negative test case for denying the application permission to access the iOS device's gallery and keyboard.
TC-3	Welcome Message Display on Open	This test case covers the requirement to show the user































































