

Know Nothings

BOOKSE

TEST PLAN

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Introduction

The Test Plan has been created to communicate the test approach to team members. It includes the objectives, scope, schedule, risks and approach. This document will clearly identify what the test deliverables will be and what is deemed in and out of scope.

1.1 Objectives

Our app will read the title of a book through an AI camera and suggest other products based on the book.

Sprint 1 of the project will deliver an updated UI and basic operations of a camera

1.2 Team Members

Resource Name	Role (<i>examples are given below</i>)
Todd Thompson	Developer /Tester
Chase Kent	Project Manager / Tester
Luke Simpson	Developer/Tester
Huy Le	Developer/Tester

2 Scope

The initial sprint will include 'must have' requirements. These and any other requirements that get included must all be tested.

The following sections indicate what is tested during each sprint. The scope of testing is determined at the beginning of the current sprint.

At the end of Sprint 1, a user must be able to:

1. Open an app and access a camera.
2. This will be tested via the android studio emulator and on an android device.

At the end of Sprint 2, a user must be able to:

1. Open the app and potentially use the camera with ai.
2. Search book ISBN from title.
3. Potentially be able to search separately on outside database with ISBN.

At the end of Sprint 3, a user must be able to:

1. Open the app and use camera ai to recognize book title
2. Find book ISBN from title.
3. Search information about book on outside database
4. Recommend other books or merch to the user

Assumptions / Risks

2.1 Assumptions

The user might only be able to search books that we have put through ai.

2.2 Risks

The following risks have been identified and the appropriate action identified to mitigate their impact on the project. The impact (or severity) of the risk is based on how the project would be affected if the risk was triggered. The trigger is what milestone or event would cause the risk to become an issue to be dealt with.

#	Risk	Impact	Trigger	Mitigation Plan
1	Scope Creep – as testers become more familiar with the tool, they will want more functionality	High	Delays in implementation on date	Each iteration, functionality will be closely monitored. Priorities will be set and discussed by stakeholders. Since the driver is functionality and not time, it may be necessary to push the date out.
2	Weekly delivery is not possible because the developer works off site	Medium	Product did not get delivered on schedule	In this case developers must keep everyone up to date on their progress.

3 Test Approach

The project is using an agile approach, with 3-week sprints. *Mention how you will conduct testing during the sprint in terms of the techniques you plan to do and when. Add a new subsection for each sprint.*

Sprint 1

Basic test if the app can compile and perform basic tasks

Sprint 2

Test if any new functions will break, test camera ai and backend implementation. Search many book titles to see if anything misbehaves.

Sprint 3

Test everything extensively. Test parts of the app that may not be used often. Stress test and make sure the app is secure.

3.1 Test Automation

Luckily android studio does most of the testing of the code we need while it compiles the app. Gradle keeps everything in check within the android studio.

4 Test Environment

Test environment will be same as the users environment, since this app has not shipped yet, we do not need to develop a second server to test on yet.

4 Milestones / Deliverables

4.1 Test Schedule

Task Name (<i>sample is below, focus on spring 1 to start</i>)	Start	Finish	Effort	Comments
<i>Test Planning</i>	Sprint1	Sprint2		Discussed testing and do not understand or see a reason to test further.

4.2 Deliverables

Deliverable (examples)	Date / Milestone
<i>Test Plan</i>	3/28/20
<i>Traceability Matrix</i>	4/22/20
<i>Test Results</i>	5/1/20
<i>Test Status report</i>	5/1/20
<i>Metrics</i>	5/1/20