

# Test Plan Document

For

No Kill Louisville

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1	INTRODUCTION .....	3
2	BUSINESS BACKGROUND.....	3
3	TEST OBJECTIVES.....	3
4	SCOPE .....	3
5	TEST TYPES IDENTIFIED .....	3
6	PROBLEMS PERCEIVED .....	3
7	ARCHITECTURE.....	3
8	ENVIRONMENT .....	3
9	ASSUMPTIONS .....	4
10	FUNCTIONALITY .....	4
11	SECURITY .....	4
12	USABILITY .....	5
13	TEST TEAM ORGANIZATION .....	6
14	SCHEDULE .....	6
15	CONFIGURATION MANAGEMENT .....	7
16	RELEASE CRITERIA.....	7

# Test Plan

## 1 Introduction

This is a test plan for No Kill Louisville. We have built an app for them so they can check people in to create a faster, more efficient process.

## 2 Business Background

No Kill Louisville is a non- profit designed to shelter cats and dogs. They have a food bank , which is run once a month, to allow pet owners to get food.

## 3 Test Objectives

The scope of the testing will revolve around the following:

- Opening the scheduling form
- Allowing volunteers to get a list of all the people scheduled for the day
- Allowing the user to check the time for their appointment

## 4 Scope

The Scope of this project is to provide a service that will allow the No Kill volunteers a way of checking in their customers without having to use pen and paper.

## 5 Test types Identified

- Interface Testing
- REST API Testing

## 6 Problems Perceived

Possible problem that might be of concern are the following:

- The user getting into the volunteer page.
- Error in the Acuity REST API due to date, email, or phone number format.

## 7 Architecture

The application is built in Android studio. The programming language used is Java. The app makes use of the Acuity Scheduling API which uses REST.

## 8 Environment

The standard use case environment is Android-compatible phones. The test will primarily be done in Android Studio on the PC, but additional testing will need to be done on the phone.

## 9 Assumptions

We can assume that most of the testing will be done in Android Studio. Also we can assume that we will have to test with many different variables to ensure that this app can handle all situations.

## 10 Functionality

### ***Constraints and Resolutions***

Parameter	Customer Constraints	Infosys Limitations
Email	Email must be valid format	
Phone	Phone number must be valid format	
Date	Date must be first saturday of the month	

### ***Risk Identified & Mitigation Planned***

#### ***Test Strategy***

API testing will be done using the acuity API website and a separate Java project environment to ensure that information grabbed from the API is functional with Java without interfering with current progress.

Testing also needs to be done on various button that ranges in function from getting information from the API, opening up forms, or filling up a list of information

#### ***Deliverables***

- Methods that access the API for certain information.
- Methods that work on a button pressed.

## 11 Security

### ***Constraints and Resolutions***

Parameter	Customer Constraints	Infosys Limitations
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Valid Email	Email that is used to sign in should be verified by firebase.	
Phone Number	Phone numbers should be checked as well to make sure everyone is using the service as intended.	

### ***Risk Identified & Mitigation Planned***

#### ***Test Strategy***

The security testing will be done using the Firebase Authentication system.

#### ***Deliverables***

## **12 Usability**

### ***Constraints and Resolutions***

<b>Parameter</b>	<b>Customer Constraints</b>	<b>Infosys Limitations</b>
sign in buttons	UI needs to be a simple as possible because some users may not be tech savvy	
Clear sign up instructions	Again this will tie into the UI. Users need to be able to easily follow a prompt that takes them through the sign up process	


### ***Risk Identified & Mitigation Planned***

#### ***Test Strategy***

To determine the usability of our app we will test by inputting a test user information such as email to see if our app and Acuity are doing what they are supposed to.

#### ***Deliverables***

Deliverables are simply the user's credentials being saved to Acuity.

### ***Compatibility Constraints and Resolutions***

<b>Parameter</b>	<b>Customer Constraints</b>	<b>Infosys Limitations</b>
Android Phones	App is being developed for android phones so no real issue here.	
Apple Phones	App will need to be adjusted so user with an Iphone can use it.	

### ***Risk Identified & Mitigation Planned***

#### ***Test Strategy***

Once functionality testing is complete, the application will be tested on an Android phone to ensure compatibility with phones.

#### ***Deliverables***

After testing our application should run well and be able to handle all sorts of factors.

## **13 Test Team Organization**

Backend Tester - Sokheang Leang (Acuity), Christianne (Firebase)  
Frontend Tester - Nick Curry, Christianne

## **14 Schedule**

Schedule is varied

## **15 Configuration Management**

Configuration of this app should be simple. Users will download via the Google App store.

## **16 Release Criteria**

The application will be released when the following condition is met:

- All necessary function completed/

- Acuity API and Firebase implementation completed.

- The application displaying necessary information in a readable format/