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# Test Plan

Iteration 1



Airport Solutions

# Table of Contents

<b>1. Introduction .....</b>	<b>2</b>
1.1 Purpose of test plan.....	2
1.2 Scope.....	2
<b>2. Strategies for tests .....</b>	<b>2</b>
2.1 Test objectives .....	2
2.2 Test principles.....	2
<b>3. Test Management .....</b>	<b>2</b>
3.1 Test processes .....	2
<b>4. Team roles .....</b>	<b>3</b>

# 1. Introduction

## 1.1 Purpose of test plan

The test plan document is to track the necessary information required to effectively define the approach to be used in the testing of the project product. It will serve as a guideline to guide us through the each of the agile iterations.

## 1.2 Scope

The initial phase will include all “must have” requirements. These and any other. Requirements that get included must all be tested. Later, additional features will be added until the final product is accomplished.

# 2. Strategies for tests

## 2.1 Test objectives

The objective of the test is to verify that the functionality of Airport Simulation works according to the specifications. In addition mentor's feedback will play a significant role as well and changes will be conducted if necessary.

The test will execute and verify the code and simulation via Visual Studio.

## 2.2 Test principles

- a) Tests are focused on the requirements
- b) Secondary, test will be focused on the right way of executing the simulation
- c) Last, but not least, app should be vulnerable to changes and adapt to them
- d) Tests should be repeated, and the outcomes should be measured and compared to the expected outcomes

# 3. Test Management

## 3.1 Test processes

- a) Once all test cases are approved and the test environment is ready for testing, tester will start an exploratory test of the application to ensure the application is stable for testing.

- b) Each test will perform step by step execution and updates the execution status. The tester enters Pass or Fail Status for each step.
- c) In an event of a failure, team should look carefully what causes the mistake and fix the bug.
- d) Team should think of different cases that can occur during the simulation and prevent the app from bugging.
- e) If the team is unable to get rid of a problem, mentor should be contacted for help.
- f) Tests are repeated until team is confident enough about the end-product.

## 4. Team roles

Each one of the team members should contribute to this iteration. We will think of test and exceptions that may be useful for the overall project. In order to make it adaptable and successful, we should arrange regular team meeting and brainstorm or even arrange meetings with tutor to ask for his opinion.

We will develop test plans which will guide us while performing the tests and use them later to verify against the expected output. If we encounter a problem with the application, it will be recorded and described thoroughly to be used for fixing it. This process is important in order to replicate the error and find the potential reason easier. After fixing each of the encountered bugs and completing a test case successfully, it will be marked in our list of known bugs and problems as fixed. And we will continue with thinking of new use cases and fixing the already known problems and bugs until everything is working as expected. All the known problems and bugs are supposed to be fixed until the next agile iteration.