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COS 301 - Testing Policy

Brute Force

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1 Introduction

1.1 Purpose of this document

The purpose of this document is to effectively and efficiently provide timely, accurate, and useful quality risk management information and services.

2 Scope and Overview

2.1 Overview

The Indoor Mall Navigation Application aims to aid shoppers in a large mall by providing a searchable, navigable map available on their mobile device. The system also provides a shopping interface which allows users to purchase items using barcodes or beacons.

2.2 Scope

The scope of this testing policy will cover low-level unit testing and integration testing.

3 Testing Approach

3.1 Unit Testing

Unit testing for the system will be carried out using Jest as a testing tool. Tests will be compiled for each functional component of the module being tested and will be carried out before each commit to the git repository as well as before each merge with other git branches by the team member responsible for the module. This will be done to ensure only functional code is used in the further development of the system and help detect defective code in units and also reduce risk of unit failure in production.

3.1.1 Test Cases

Unit testing for each functional component should consist of at least the following test cases:

Case #	Case Description
1	Test Function with Expected Valid Input
2	Test Function with Input of Invalid Data Type
3	Test Function with Input of Valid Data Type with Exceptional Value
4	Test Function with Empty Input

3.2 Integration Testing

Integration testing will be carried out using Travis Continuous Integration which allows for automated integration testing each time new code is pushed to the git repository. This will ensure that each module interacts well with other modules and the system and its dependencies are fully able to build.