

SE Charter Company Incorporated

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| Project Name | Charter Company |
| Product Name | Charter Co Record Keeping System |
| Production Release Version | 2.1.8 |

Master Test Plan

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# Introduction

## Purpose of The Test Plan Document

This Test Plan document brochures and tracks the approach we have taken for the testing of the Group D Software Engineering Charter Company Record Keeping System product. Our rigorous testing verifies that the system meets the different requirements including, functional, performance, reliability, security and usability. Any non-functionality of our product will be stipulated in an alternative document called “…” and you may refer to that documentation for the related information.

# Functional & PerfomanCe Testing

## Test Risks / Issues

## The risks associated with our product testing were very minimal to say the least. The entirety of our testing did not harm or endanger the successful operation and wholeness of our product. Throughout the entirety of our testing the system would throw one of these errors.

## Throw the user an error based on input data

## Not accept item input data

## Refuse to transition to another page

## Not connect to SUNY New Paltz server

## At no point did our testing compromise the integrity of the system and at most would fail to produce require input and or output.

## Items, FeATURES and FUNCTIONS to be Tested

Describes the items/features/functions to be tested that are within the realm of this test plan. Includes a description of how they will be tested, when, by whom, and to what quality standards.

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| **Item to Test** | **Test Description** | **Test Date** | **Responsibility** |
| Charter | Testing the system’s ability to successfully add a Chartered Flight item into the records using the accompanying input data:   * Charter trip number * Charter date * AC number * Charter destination * Charter distance * Charter hours flown * Charter wait time * Fuel capacity and load * Oil quantity * Customer code | 10/30/2018 | Jacobs |
| Crew | Testing the system’s ability to successfully add a Crew item into the records using the accompanying input data:   * Charter trip number * Charter date * AC number * Charter destination * Charter distance * Charter hours flown * Charter wait time * Fuel capacity and load * Oil quantity * Customer code | 11/1/2018 | Ben |
| Customer | Testing the system’s ability to successfully add a Customer item into the records using the accompanying input data:   * Customer code * Customer last name * Customer first name * Customer initial * Customer area code * Customer phone number * Customer invoice balance | 11/3/2018 | John & Georgi |
| Earned Rating | Testing the system’s ability to successfully add an Earned Rating item for a Pilot into the records using the accompanying input data:   * Employee number * RTG code * Earned rating date | 11/12/2018 | Elliot & Ben |
| Rating | Testing the system’s ability to successfully add a Rating for Pilots to have into the records using the accompanying input data:   * RTG code * RTG name | 11/12/2018 | Jacob |
| Model | Testing the system’s ability to successfully add an aircraft Model item into the records using the accompanying input data:   * Model code * Model manufacturer * Model name * Model seat count * Model CHG miles | 11/13/2018 | Jacob |
| Aircraft | Testing the system’s ability to successfully add a Aircraft item into the records using the accompanying input data:   * AC number * Model code * AC TTAF * AC TTEL * AC TTER | 11/13/2018 | Jacob |
| Pilot | Testing the system’s ability to successfully add a Pilot item into the records using the accompanying input data:   * Employee number * Pilot license * Pilot ratings * Pilot med type * Pilot med date * Pilot PT135 date | 11/20/2018 | John & Elliot |
| Employee | Testing the system’s ability to successfully add an Employee item into the records using the accompanying input data:   * Employee number * Employee title * Employee last name * Employee first name * Employee initial * Employee date of birth * Employee hire date | 11/20/2018 | Georgi |
| **Function to Test** | **Test Description** | **Test Date** | **Responsibility** |
| Logging In | Testing the user’s ability to log into the system using different credentials / input data | 11/21/2018 | Jacob |
| Chartering Flight | Tested the functionality of Chartering a new flight | 11/3/2018 | Jacob & Ben |
| Accessing Records | Tested the systems ability to successfully access different records i.e. Customer records, Employee records, Aircrafts records etc. | 11/27/2018 | John |
| Add to Records | Tested the system’s ability to successfully add to different records i.e. Customer records, Employee records, Aircrafts records etc. | 11/20/2018 | Georgi |
| Delete Records | Tested the system’s ability to successfully delete different records i.e. Customer records, Employee records, Aircrafts records etc.  Worth noting, our superior did not find that the delete operation would be useful but our team thought in the case where a user might add a record by mistake and or desire to delete a record it would be an important functionality to have. | 12/2/18 | Jacob |
| Update Records | Tested the system’s ability to update different records i.e. Customer records, Employee records, Aircrafts records etc. | 12/5/2019 | Elliot |
| Logging Out | Testing a user’s ability to log out of the system | 12/23/2018 | Jacob |
| **Feature to Test** | **Test Description** | **Test Date** | **Responsibility** |
| Displaying Records | Assured the system’s ability to access and display records properly from our database | 11/2/2018 | Jacob |
| Filter Records | Tested the system’s ability to filter accessed records that are displayed per category.  For example, if the user has accessed the Employee records the user may be allowed to refine the displayed records according to:   * Employee number * Employee title * Employee last name * Employee first name * Employee initial * Employee date of birth * Employee hire date | 12/12/2018 | Elliot |

## Test Approach(s)

The overall testing approach to be used to test the project’s product.

**SOFTWARE TESTING LIFE CYCLE (STLC)** the various stages and phases in the testing of our software.

Our Software Testing Life Cycle was comprised of the following phases:

* Requirements / Design review
* Test planning
* Test designing
* Test environment setup
* Test execution
* Test report

## STLC Phases and Activities

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| **Phase** | **Activity** | **Deliverables** | **Necessity** |
| **Requirements/Design Review** | Software requirements/design.  Our software requires the user to input the proper data for each of the items input variables.  I.e. An aircraft items model number must be of type integer or for the users understanding a positive whole number.  If the input data is incomplete and or not of the right type our system will notify the user of the error and allow the user to input the correct data | * Defects | Curiosity |
| **Test Planning** | Our tests consisted of inputting data for any of the functions/items as they were developed and implemented incrementally; in either one of two ways:   1. Incorrect data types i.e. inserting an integer when a float or decimal number is required. 2. No data or empty spaces left in the input. | * [Test Plan](http://softwaretestingfundamentals.com/test-plan/) | Farsightedness |
| **Test Designing** | Each testing of functionality required different approaches of data types but still followed the above two approaches: wrong data types and or empty spaces. | * Requirements Traceability | Creativity |
| **Test Environment Setup** | Our team setup the test environment, involving the php connection to SUNY New Paltz server and launching the system application in Eclipse. We successfully replicated the end user’s environment and or front-end experience for proper testing. | * Test Environment | Rich company |
| **Test Execution** | The execution of our Test cases in the Test Environment over the allocated time as our project was developed incrementally. | * Test Results (Incremental) | Patience |
| **Test Report** | In the end our tests proved that our system was capable of doing what our team desired which was to throw an error and allow the user to input proper data without the entire system crashing.  Final results: The latest version of our product does not allow for two functionalities   * updating records * Logging out of the system | * Test Results (Final) | Diplomacy |

## Test Regulatory / Mandate Criteria

*Regulations / mandates that the system must be tested against.*

* Our system was not allowed to fail and or crash in the case of improper use.
* Our system must allow the user to continue use even though they might make mistakes in the operation of our application.

## Test Pass / Fail Criteria

The criteria used to determine if a test item has passed or failed its test.

* An item can be insert into the system properly and saved to the database.
* The user can continue use of the system in the case where incorrect data was inputted and allowed the opportunity to try again and input correct data.