

Project Testing >>>

Introduction

To ensure a stable and user friendly application the GeorgiaPalm team has implemented a testing plan that will utilize all team members in the testing process. GeorgiaPalm will implement white box, black box, use testing, and also follow up with regression testing after any code enhancements.

- i. Tim Hare and John Shaffer will be utilized for white box testing of the data structures, algorithms and desktop integration within the code.
- ii. Dianna Knight and Lester Henry will be adding support during the black box and use case testing.

Personnel

Dianna Knight	Project Manager - Leader	csu10679@
John Shaffer	Tester and Customer Liaison	csu12748@
Lester Henry	Document Manager - Web Master	csu15072@
Tim Hare	Developer	csu15072@

Test Cases

Test Number: 1

WBS 5.3.3

Testing Type: Black box

Purpose: To ensure data is imported in to the PDA correctly.

Preconditions: Test file with database tables for synchronization and a Palm PDA.

Post-conditions: PDA completes sync and imports data with no errors.

- Test Cases:
1. A populated sample data file is loaded.
 2. An unpopulated sample data file is loaded.
 3. A corrupt sample data file is loaded.

Test Number: 2

WBS 6.3

Testing Type: White box

Purpose: To verify data was distributed to the correct data structures in the application.

Preconditions: PalmOS synchronized with desktop application data.

Post-conditions: Arrays are filled with data values equal to the exported desktop data.

- Test Cases:
1. Write a test program that will compare the contents of the imported data against the known test file data.

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Test Number: 3

WBS 6.4

Testing Type: Black box

Purpose: Verifying that all drop down selections are linked to the correct data.

Preconditions: The application populated with data.

Post-conditions: All drop down boxes provide valid selections.

Test Cases:

1. Test the date entry textbox
2. Test the Job name selection
3. Verify the Job name selection
4. Verify the contact name and phone number selectors
5. Verify the Job location selector
6. Verify the Job code selections
7. Verify the Supervisor code selections
8. Verify Job memos are active

Test Number: 4

WBS 6.6.1

Testing Type: Black box

Purpose: To verify that dates can be queried for viewing in multiple modes.

Preconditions: Running application in monthly mode.

Post-conditions: Selection of date changes from monthly mode to daily/hourly mode.

Test Cases:

1. Open application and select monthly view in the calendar.
2. Open daily view from within the monthly view.
3. Open a single date query and open only a daily view.

Test Number: 5

WBS 6.6.1.2

Testing Type: Black box

Purpose: Testing the ability to open an assignment and view details

Preconditions: Running application populated with data.

Post-conditions: An open assignment with travel and assignment details available.

Test Cases:

1. Open an imported assignment.
2. Verify that the correct flight information was imported.
 - a. Airline Name
 - b. Flight number
 - c. Departure date and time
 - d. Arrival date and time
3. Verify the correct rental car information was imported.
 - a. Company name
 - b. Car rental pickup location
 - c. Car rental drop-off location
 - d. Car type
 - e. Pickup date and time
 - f. Drop-off date and time
4. Verify that the correct hotel information was imported.
 - a. Hotel name
 - b. Hotel address
 - c. Hotel phone number

- d. Arrival date and time
- e. Departure date and time

Test Number: 6

WBS 6.4.1

Testing Type: Black box

Purpose: Test the ability of the application to create, save, and close a job assignment.

Preconditions: Application populated with data.

Post-conditions: A new assignment is created and saved; it is then closed and re-opened.

- Test Cases:**
1. Create a new assignment
 - a. Enter Date of new assignment
 - b. Create the Job name
 - c. Create contact name
 - d. Create contact phone number
 - e. Enter the Job location
 - f. Create/Select the Job code
 - g. Select the Supervisor code
 - h. Enter a Job memo
 2. Save the new assignment.
 3. Re-open the assignment and then close the assignment.

Test Number: 7

WBS 6.6.1.2

Testing Type: Black box

Purpose: To verify that data can be entered or edited in the travel section of an job assignment.

Preconditions: Application populated with data and an open assignment.

Post-conditions: All allowed textboxes are editable and data that is changed is saved replacing previous data.

- Test Cases:**
1. Open an old assignment.
 2. Enter/edit new flight information.
 - a. Airline Name
 - b. Flight number
 - c. Departure date and time
 - d. Arrival date and time
 3. Enter/edit new rental car information.
 - a. Company name
 - b. Car rental pickup location
 - c. Car rental drop-off location
 - d. Car type
 - e. Pickup date and time
 - f. Drop-off date and time
 4. Enter/edit new hotel information.
 - a. Hotel name
 - b. Hotel address
 - c. Hotel phone number
 - d. Arrival date and time

- e. Departure date and time
- 5. Verify the changes are recorded to the stored data structures.

Test Number: 8

WBS 6.6

Testing Type: Black box

Purpose:	Verifying that hours and minutes can be entered on a daily basis.
Preconditions:	Populated application with an open assignment in daily mode.
Post-conditions:	Application records the correct values for hours and minutes.
Test Cases:	<ol style="list-style-type: none"> 1. Enter values for test hours worked 2. Verify that daily values are correctly stored. 3. Verify that hours are calculated for the week.

Test Number: 9

WBS 5.3.3

Testing Type: White box

Purpose:	To verify that data entered in the application is exported to the .xml correctly.
Preconditions:	Application with edited or created data to be exported.
Post-conditions:	An .xml file with data in the correct format.
Test Cases:	<ol style="list-style-type: none"> 1. Data will be exported to a data file. 2. The data file will be compared with the stored data for accuracy.

Build 1

Week 12

Completed Requirements: 3.0 - 4.0 - 5.0 - 6.0 (6.1 - 6.5)

Tests to be Run: 1 - 2 - 3 - 6 - 7 - 9 - 10

Build 2

Week 15

Completed Requirements: 6.0 (6.6-6.7)

Tests to be Run: 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10

Error Report

Error Number	Found By	When Found	Description	Status