ASRC Federal Holding Company Desktop Scheduler

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Document History

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| Draft V1 | mm/dd/yyyy | John Doe |  |
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Document Approval

The following signatures indicate approval of this document and its content.

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[INSTRUCTIONS - To update these fields, click on the item(s) and press F9.]

**Desktop Scheduler 2.0 Upgrade**

Acronyms

|  |  |
| --- | --- |
| Acronym | Description |
| ASRC | Arctic Slope Regional Corporation (Holding Company) |
| Admin | Administrator |
| HTML | HyperText Markup Language |
| FAQ | Frequently Asked Questions |

Table of Contents

[INSTRUCTIONS - To update the Table of Contents, click on it and press F9.]

1 Introduction 2

1.1 Document Purpose

1.2 Document Organization

1.3 Project Background

1.4 Related Documents

2 Validation Strategy 3

2.1 Testing Levels and Objectives

2.1.1 Testing Objectives

2.1.2 Testing Levels

2.1.2.1 Admins

2.1.2.2 Managers

2.1.2.3 Users

2.1.2.4 Algorithm

2.2 System Requirements

2.2.1 Hardware Configuration

2.2.2 Software Configuration

2.2.3 Software Developer

2.2.4 Source Code

2.2.5 Libraries/Directories

2.2.6 Migration of Software and Data

2.2.7 Backup and Recovery Needs

2.3 Resource Types and Training Needs

3 System Test Evaluation 4

4 validation Methodology 4

4.1 General Information

4.2 Organization of Validation Procedures

4.3 Validation Data Files

4.4 Statistical Methods for Evaluating Results

4.5 Test Case/Requirements Traceability

5 validation Procedures 5

5.1 Test Scripts

5.1.1 Admin Scripts

5.1.2 Manager Scripts

5.1.3 User Scripts

5.1.4 Algorithm Scripts

# Introduction

## Document Purpose

You may keep the text below as is.

The Validation Protocol document contains the Validation Procedures and will be conducted according to the corresponding Validation Plan.

You can start the Validation Protocol document early in the project life cycle (during detailed requirements definition) in conjunction with the System Test Protocol document. This provides the time needed to analyze the breadth of the required testing activities and plan for test design, execution, and completion.

## Document Organization

You may keep the text below as is.

The remainder of this document is organized as follows:

* Section 2 , Validation Strategy, contains the test levels and objectives, hardware and software required for validation, Resource and training requirements
* Section 3 contains a summary of the completed System Testing
* Section 4, Validation Methodology, explains the scope of validation, the organization and sequencing of validation procedures
* Section 5, Validation Procedures, contains the actual validation procedures

## Project Background

This document contains the Validation Protocol for the ASRC Federal Desktop Scheduler software. The Desktop Scheduler is being updated to the latest version, 2.0, in order to address several known problems and missing functionality from the previous version. These are:

* The current version now supports a Fairness Algorithm, which is used when more than one request was made for a time slot.
* The current version now supports QoL features requested by the sponsors, such as each desktop having its own associated color, families of colors to differentiate between requested time slots and finalized time slots, and so on.
* The current version now supports an Admin page, which Admins can use for an array of features like creating, managing, and deleting the following: users, desktops, builds, installations, and reservations.
* The current version now supports the viewing of specific metrics for respective roles.
* The current version now supports a Manager role.
* The current version now supports a Manager page, which Managers can use for an array of features like viewing specific metrics by user totals or by build.
* The current version removed raw text in HTML files, which would affect compatibility in some viewing cases.
* The current version now supports a Legend page to show all users the difference between the families of colors used on the desktop scheduler.
* The current version now supports a Help page which acts as an FAQ page for all users.
* The current version now supports the necessary resources for a user to recover their (forgotten) password.

This validation is being done to ensure that the modifications are working correctly, and that the functionality of the system is not broken with any changes made or the upgraded software.

This section contains general information including a functional description of the system, how it supports the business activities, and similar information. How this system relates to other existing and future systems should be discussed.

Target begin and end dates for validation activities, and of system operational status should be indicated, if possible.

## Related Documents

List documents referenced in or related to this document. The versions of the Detailed Requirements and/or Detailed Design Document(s) that this protocol has been written against should be indicated.

|  |  |  |
| --- | --- | --- |
| Document Name | Version # | Location |
| Desktop Scheduler Upgrade  Validation Plan | 1.0 | Rowan University |
| Desktop Scheduler Functional Requirements | 2.0 | Rowan University |

# Validation Strategy

## Testing Levels and Objectives

### Testing Objectives

This protocol is written to accomplish the following testing objectives to ensure:

* Off-the-shelf Desktop Scheduler functionality works as intended;
* Customized Desktop Scheduler functionality works as intended;
* Desktop Scheduler testing considers variation in user location and desktop environment.

### Testing Levels

There are various levels of testing being done. Three different types of users are being tested. These are the *Users (all other employees)*, *Managers* and Admins(all other employees). Different functionality is being tested at each of these levels. Testing Scripts have been made for all levels of users, including a script for the Fairness Algorithm.

#### Users

The User Script contains the following functions:

* Visit Webpage
* Login
* Index Page
* Dashboard Page
* Legend Page
* Help Page
* Logout

#### Managers

The Manager Script contains the following functions:

* Visit Webpage
* Login
* Index Page
* Manager Page
* Dashboard Page
* Legend Page
* Help Page
* Logout

#### Admins

The Admin Script contains the following functions:

* Visit Webpage
* Login
* Index Page
* Admin Page
* Dashboard Page
* Legend Page
* Help Page
* Logout

Login, check wrong password, navigate**, view of all document types (xml, word, excel, power point, icrosoft project, html, pdf, xml, sas output?, visio?), no edit capability, no permissions, external web pages links & queries, searching for documents (verify all attributes appear on search pages**Define the testing levels and objectives as needed for your project.

#### Algorithm

The Algorithm Script contains the following functions:

* Prime Time Slot Requested
* Prime Time Slot Released
* Non-Prime Time Slot Requested
* Non-Prime Time Slot Released
* Schedule Finalized – State 1
* Schedule Finalized – State 2
* Idle Users
* Email to Winners of Slots

Example Text:

Validation will be performed in the production environment. The validation will follow the logical order of the business process of entering and updating Projects and Milestones. The system testing will include all error testing; therefore, there is no need to perform stress testing and test field limits on this system.

## System Requirements

System Requirements involve establishing an internet connection. This is required for the integrated database to be working as intended. The System also requires that (at least) one Admin role has been created in the database itself before officially launching the software. This initial Admin role is required for the creation of other users within the software.

This section contains a description of the system and Validation environment. The Validation environment should represent the eventual production environment as closely as possible. The descriptions that follow should indicate any deviations in the Validation environment from the expected production environment.

### Hardware Configuration

The testing will occur using a standard Windows 10 desktop PC and the Google Chrome web browser.

List any hardware required to be in place for the testing to take place, including host computer, desktop workstations, servers, disk drives, etc. Any hardware limitations of the system (such as what monitors the system can **not** function with) should be listed.

Indicate the physical and logical configuration of the hardware. For new hardware installations, include any environmental requirements, wiring needed, and installation qualifications. Incorporate by reference an Acceptance plan for the hardware and its installation.

Include any figures or diagrams that clarify the relationship between the different components of the system. Reference can be made to other documents such as the Application Technical Architecture document, or the appropriate technical architecture document, provided they contain this information and they are current and approved documents.

### Software Configuration

The testing will occur on one physical PC. The software itself has 10 virtual desktops, each with their own scheduler system and database: DT1, DT2, DT3, DT4, MES1, MES2, MES3, MES4, MES7, and MES8.

Describe the configuration of the software required to execute the test/validation procedures, particularly any system or third party product required. Include version numbers for all software, including vendor software.

### Software Developer

The software being validated was developed by Team Sloths of Professor Myers’ Software Engineering class, Rowan University, Fall semester 2019. Several modifications were made by the in-house development team from Version 1.0 of the software to Version 2.0.

Indicate the department(s) developing the software. If multiple departments are involved, specify the development responsibilities of each department.

If the software or some part of it is being developed by a contractor/vendor to Wyeth-Ayerst, include this information along with the name and telephone number of the contact person at the contractor/vendor. Reference any appropriate vendor-provided documentation, and any Vendor Evaluation documentation that may have been developed.

### Source Code

*Please see the following URL (copy and paste into a web browser):* **github.com/anchet19/Sloths**

Identify the source code language used for the system. If the software was written to operate in a particular implementation of a language, this should be indicated.

### Libraries/Directories

*(From GitHub source code repository):* Controllers, Images, Styles, Utils, Views, api

Identify the program and data libraries where the software files, data files, and databases will be stored. Identify the security requirements for the environment and ensure testers will have the proper security access to perform validation.

### Migration of Software and Data

The upgrade was done to the server. Existing enhancements are on the Intranet client interface.

Document procedures for migrating software and data into the Validation environment.

Example text:

Normal Configuration Management procedures will be followed.

Determine the types of data and sources that will be needed to validate the system. Examples of types of data are:

* data that needs to be sent to and received from interfacing applications
* types and amount of data that will be required from the existing system
* new data not currently found in the enterprise database

Identify how data will be established for the Validation environment. Options to consider include:

* Copy data from the Production environment
* Manual data entry
* Custom load/conversion

### Backup and Recovery Needs

Backups of the source code and the database are highly recommended. The dump file of the database can be easily reloaded if necessary.

Document the Backup and Recovery requirements for the Validation environment. Consider all aspects of the Validation environment (software libraries, data files, databases, etc.) and the potential impacts of downtime in Testing. .

Example text:

All program libraries, data files, and databases will be stored on a server that is backed up daily.

## Resource Types and Training Needs

Several resources are being used in the testing.

Document the resource types that will be needed to successfully validate the application. As you identify specific resources, identify any training needed for those resources to be able to test effectively. Possible areas of training to consider include testing tools, systems software, support software, operating system, database structure, and standard operating procedures.

The specific resources and their training needs are documented below:

|  |  |  |
| --- | --- | --- |
| **Resource** | **Location** | **Training Needs** |
| Wamp64 | Local PC | Application |
| PHPMyAdmin | Local PC | Application |

# System Test Evaluation

Include a statement about the evaluation of the System Test activities. This statement should indicate how the evaluation was performed (review of documents, meeting/discussion), and if the results of the System Test are acceptable.

# validation Methodology

## General Information

Explain the general methodology to be used in the validation efforts. Include, if applicable, a description of the strategy/general approach used to develop the test procedures. This may include a description of the depth of testing being performed on the system and areas of the system that are being excluded from testing (such as screen navigation possibilities or field limits not tested for every screen).

## Organization of Validation Procedures

Describe the way the procedures are to be organized. Frequently, the structure of the testing procedures or the software itself creates dependencies that influence the timing and ordering of the execution of procedures. For example, often one function of a system uses as input the output of another function of the system. The validation procedures should require that the first function be verified and is functioning properly before moving onto the second function. Interdependencies such as this should be identified here and accounted for in the overall validation plan.

|  |  |
| --- | --- |
| Test Procedures | |
| Test Procedure Number | Test Cases/Scripts Included |
| GUI Test Procedure #3 | Customer Entry, Customer Update, Customer Delete |
| 5.1.1 | User Script |
| 5.1.2 | Manager Script |
| 5.1.3 | Admin Script |
| 5.1.4 | Algorithm Script |

## Validation Data Files

There are various validation data files used inside of the JS files for the Desktop Scheduler.

Define the form and content of any data files to be used for the validation effort. Testing involving data limits, exceptional data cases, boundary conditions, or user input errors should be oriented towards those situations that are relevant to the user’s functional use of the system within their business environment.

## Statistical Methods for Evaluating Results

There are no statistical methods being used to evaluate results. The software is almost exclusively a read/write to the database, with some exception checking here and there.

List any statistical methods that will be used to evaluate the results of the procedures. If any methods that will be used will be specific to a procedure, indicate this here.

## Test Case/Requirements Traceability

See traceability matrix

# validation Procedures

This section contains the test cases and scripts needed to verify that the requirements are met. A test case describes what is being tested and a test script is the detailed procedures for executing a test case. See the forms that follow this page for the test cases/scripts.

## Test Scripts

Use the Test Summary Report form to capture the summary results of all the test cases. This form is designed to be used as a high level summary for review of test results with management. Ensure that each entry in this document is tied back to the related test case and requirement/use case from the Validation Protocol document.

*Please see below.*

### User Script

Visit Webpage

Login

Index Page

Dashboard Page

Legend Page

Help Page

Logout

| **ID** | **Step** | **Input or Prequisites** | **Procedure** | **Expected results** | **Actual Results** | **Initials & Date/Time** | **Attachment Ref.** | **Pass/ Fail** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Internet connection already established, and remains established for the duration of testing. A server with the dump file of the database is currently established and running. |  |  |  |  |  |  |
|  |  | Email is known.  man@man.man  asrcscheduler@gmail.com |  |  |  |  |  |  |
|  |  | user1  user |  |  |  |  |  |  |
|  |  | user2  notuserpass |  |  |  |  |  |  |
|  |  | user1  user |  |  |  |  |  |  |
|  |  | user1  user |  |  |  |  |  |  |
|  |  | user1  user |  |  |  |  |  |  |
|  | Visit Webpage | Internet connection already established and remains established for the duration of testing. A server with the dump file of the database is currently established and running. | Open Google Chrome Window | Google Chrome Window opens. |  |  |  |  |
|  |  | localhost/sloths-master/Views/login | Go to specific web address for this software (TBA when it goes live) | The Desktop Scheduler Login page window appears. |  |  |  |  |
|  | Incorrect login | user | Type your username. | The Username text field fills with rich text as you enter input. |  |  |  |  |
|  |  | notuser | Type an Incorrect password. | The Password text field fills with masked text as you enter input. |  |  |  |  |
|  |  |  | Click the Submit button. | The Invalid Username or Password failure message appears. The Username and Password text fields clear themselves of previously entered input. |  |  |  |  |
|  | Forgot Password |  | Click the Forgot your Password? link. | Redirected to the Reset Password webpage. |  |  |  |  |
|  | Incorrect email | Email is not known. | Enter any unknown email address into the Enter Your Email text field. | The Enter Your Email text field fills with rich text as you enter input. |  |  |  |  |
|  |  |  | Click Submit button. | Error message pops up to inform you that the email address entered does not match our records. Text field clears. |  |  |  |  |
|  | Correct Email | Email is known.  asrcscheduler@gmail.com | Enter email address into the Enter Your Email text field. | The Enter Your Email text field fills with rich text as you enter input. |  |  |  |  |
|  |  |  | Click Submit button. | Email is checked with our database. Redirected to New Password webpage. |  |  |  |  |
|  | New Password – Incorrect Temporary password | *Any desired input except password that was emailed* | Enter anything but the password that was emailed to you into Temporary Password text field. | The Temporary Password text field fills with masked text as you enter input. |  |  |  |  |
|  |  | *Any desired input* | Enter desired new password into the New Password text field. | The New Password text field fills with masked text as you enter input. |  |  |  |  |
|  |  | *Any desired input* | Enter a password into the Confirm New Password text field. | The Confirm New Password text field fills with masked text as you enter input. |  |  |  |  |
|  |  |  | Click submit button. | Error message appears and says that the temporary password was not correct. Input from all text fields is cleared. |  |  |  |  |
|  | New Password – New Password entry and Confirm New Password entry does not match | *Temporary password that was emailed* | Enter password that was emailed to you into Temporary Password text field. | The Temporary Password text field fills with masked text as you enter input. |  |  |  |  |
|  |  | user | Enter desired new password into the New Password text field. | The New Password text field fills with masked text as you enter input. |  |  |  |  |
|  |  | notuserpass | Enter a nonmatching password into the Confirm New Password text field. | The Confirm New Password text field fills with masked text as you enter input. |  |  |  |  |
|  |  |  | Click submit button. | Error message appears and says that the passwords do not match. Input from all text fields is cleared. |  |  |  |  |
|  | New Password | *Temporary password that was emailed* | Enter password that was emailed to you into Temporary Password text field. | The Temporary Password text field fills with masked text as you enter input. |  |  |  |  |
|  |  | user | Enter desired new password into the New Password text field. | The New Password text field fills with masked text as you enter input. |  |  |  |  |
|  |  | user | Enter the same password into the Confirm New Password text field. | The Confirm New Password text field fills with masked text as you enter input. |  |  |  |  |
|  |  |  | Click submit button. | Confirmation message appears and says that the password has successfully changed. Redirected to Login page. |  |  |  |  |
|  | Account Lockout | User account has already been created.  Correct username is entered each time  *Any input besides the user password* | Enter the wrong password into the password box 5 times. | The account is locked out and cannot be logged in without further assistance. |  |  |  |  |
|  | Correct login | user | Type your username. | The Username text field fills with rich text as you enter input. |  |  |  |  |
|  |  | user | Type your password. | The Password text field fills with masked text as you enter input. |  |  |  |  |
|  |  |  | Click Submit button. | Redirected to Index page. |  |  |  |  |
|  | Index Page – Change Build | At least one Build has already been created in the database. | Select the desired Build from the drop down menu. | Selection is now the default value in the drop down menu. Calendar automatically updates to display what is currently in the database, based on the current new selection. |  |  |  |  |
|  | Index Page – Change Desktop | At least one Desktop has already been created in the database. | Select the desired Desktop from the drop down menu. | Selection is now the default value in the drop down menu. Calendar automatically updates to display what is currently in the database, based on the current new selection. |  |  |  |  |
|  | Index Page – Previous Week |  | Select the left-pointing arrow button next to displayed week range. | Calendar display changes to show the previous time block with respect to what was being displayed before the selection, as well as the respective time slots. |  |  |  |  |
|  | Index Page – Next Week |  | Select the right-pointing arrow button next to displayed week range. | Calendar display changes to show the next time block with respect to what was being displayed before the selection, as well as the respective time slots. |  |  |  |  |
|  | Index Page –Today |  | Select the today button next to displayed week range. | Calendar display changes to show the current time block, as well as the respective time slots. |  |  |  |  |
|  | Index Page –Month |  | Select the month button next to displayed week range. | Calendar display changes to show the currently displayed time block in a month view, as well as the respective time slots. |  |  |  |  |
|  | Index Page –Week |  | Select the week button next to displayed week range. | Calendar display changes to show the currently displayed time block in a week view, as well as the respective time slots. |  |  |  |  |
|  | Index Page –Day |  | Select the day button next to displayed week range. | Calendar display changes to show the currently displayed time block in a day view, as well as the respective time slots. |  |  |  |  |
|  | Index Page – Request Timeslot | Time slot must be >= current day | Select a desired timeslot. | Pop up menu shows up and displays relevant info. |  |  |  |  |
|  |  | At least one Build must exist. | Select a desired Build. | Build is chosen and becomes the default drop down selection. |  |  |  |  |
|  |  | At least one Desktop must exist. | Select a desired Desktop. | Desktop is chosen and becomes the default drop down selection. |  |  |  |  |
|  |  | At least one User must exist. | Select a desired User. | User is chosen and becomes the default drop down selection. |  |  |  |  |
|  |  |  | Select Request. | Timeslot is requested for specified user. Points increase by 1 for the specified user. |  |  |  |  |
|  | Index Page – Release Timeslot | At least one timeslot (requested of final) must exist. | Select a timeslot. | Popup menu appears and displays the respective information for the selected time slot. |  |  |  |  |
|  |  |  | Select Release. | Message appears and shows that the selected timeslot has been released. The timeslot disappears from the calendar. |  |  |  |  |
|  | Dashboard Page | The user is currently logged in. | Select the My Dashboard button. | Redirected to the Dashboard page. |  |  |  |  |
|  | Dashboard Page – My Reservations |  | Select the My Reservations button. | Enables visibility of all the reservations of the logged in user. |  |  |  |  |
|  |  |  | Select an option from the Show drop down menu. | The selection becomes the default value of the drop down menu. The table updates accordingly. |  |  |  |  |
|  |  | PM | Enter a search value into the Search text field. | The table updates in real time to show the inputs with the matching results in the table. (Ex. PM would show all time slots in the afternoon) |  |  |  |  |
|  |  |  | Select the Change Password button. | Enables visibility of all the Change Password options. |  |  |  |  |
|  | Dashboard Page – Change Password – Incorrect Username | *Any input besides user’s username.* | Enter anything but the currently logged in user’s username. | The text field fills with rich text. |  |  |  |  |
|  |  | *Any input* | Enter the currently logged in user’s password. | The text field fills with masked text. |  |  |  |  |
|  |  | *Any input* | Enter New Password. | New Password text field fills with rich text. |  |  |  |  |
|  |  | *Any input* | Enter Confirm New Password. | Confirm Password text field fills with rich text. |  |  |  |  |
|  |  |  | Select Submit. | Invalid Username error message appears. Text fields are cleared. |  |  |  |  |
|  | Dashboard Page – Change Password – Incorrect Current Password | user | Enter the currently logged in user’s username. | The text field fills with rich text. |  |  |  |  |
|  |  | *Any input besides the user’s password* | Enter anything but the currently logged in user’s password. | The text field fills with masked text. |  |  |  |  |
|  |  | *Any input* | Enter New Password. | New Password text field fills with rich text. |  |  |  |  |
|  |  | *Any input* | Enter Confirm New Password. | Confirm Password text field fills with rich text. |  |  |  |  |
|  |  |  | Select Submit. | Invalid Current Password error message appears. Text fields are cleared. |  |  |  |  |
|  | Dashboard Page – Change Password – New and Confirm Password Do Not Match | user | Enter the currently logged in user’s username. | The text field fills with rich text. |  |  |  |  |
|  |  | user1 | Enter the currently logged in user’s password. | The text field fills with masked text. |  |  |  |  |
|  |  | *Any input* | Enter New Password. | New Password text field fills with rich text. |  |  |  |  |
|  |  | *Any input that does not match the New Password field,* | Enter Confirm New Password. | Confirm Password text field fills with rich text. |  |  |  |  |
|  |  |  | Select Submit. | Passwords Do Not Match error message appears. Text fields are cleared. |  |  |  |  |
|  | Dashboard Page – Change Password | user | Enter the currently logged in user’s username. | The text field fills with rich text. |  |  |  |  |
|  |  | user1 | Enter the currently logged in user’s password. | The text field fills with masked text. |  |  |  |  |
|  |  | user2 | Enter New Password. | New Password text field fills with rich text. |  |  |  |  |
|  |  | user2 | Enter Confirm New Password. | Confirm Password text field fills with rich text. |  |  |  |  |
|  |  |  | Select Submit. | Confirmation message appears. Password updated successfully. |  |  |  |  |
|  | Dashboard Page – Needs Feedback | At least one test shot has occurred and is < current time | Click the Needs Feedback button for the desired test shot. | A popup opens and asks for user feedback |  |  |  |  |
|  |  |  | Select a desired header for the comment from the drop down. | The selection becomes the default value for the drop down. |  |  |  |  |
|  |  | Test comment | Enter a desired comment. | The text field fills with rich text. |  |  |  |  |
|  |  |  | Click Submit. | The Feedback is entered into the database, with respect to the test shot it was entered under. |  |  |  |  |
|  | Dashboard Page – Calendar |  | Select Calendar button. | Redirect to the Index page. |  |  |  |  |
|  | Legend Page | The current user is on the Index page. | Select Legend button. | Redirect to the Legend Page. |  |  |  |  |
|  | Help Page | The current user is on the Index page. | Select Help Page button. | Redirect to the Help Page. |  |  |  |  |
|  | Logout |  | Select Logout button. | The user is successfully logged out. |  |  |  |  |

### Manager Script

Visit Webpage

Login

Index Page

Manager Page

Dashboard Page

Legend Page

Help Page

Logout

| **ID** | **Step** | **Input or Prequisites** | **Procedure** | **Expected results** | **Actual Results** | **Initials & Date/Time** | **Attachment Ref.** | **Pass/ Fail** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | View Webpage | Internet connection already established, and remains established for the duration of testing. A server with the dump file of the database is currently established and running. | *Please refer to 5.1.1 User Script, Steps 1-2* |  |  |  |  |  |
|  | Login |  | *Please refer to 5.1.1 User Script, Steps 24-26* |  |  |  |  |  |
|  | Index Page |  | *Please refer to 5.1.1 User Script, Steps 27-41* |  |  |  |  |  |
|  |  | Email is known.  man@man.man  asrcscheduler@gmail.com |  |  |  |  |  |  |
|  |  | manager1  manager |  |  |  |  |  |  |
|  |  | manager2  notmanagerpass |  |  |  |  |  |  |
|  |  | manager1  manager |  |  |  |  |  |  |
|  |  | manager1  manager |  |  |  |  |  |  |
|  |  | manager1  manager |  |  |  |  |  |  |
|  | Manager Page |  | Select the Manager button. | Redirected to the Manager page. |  |  |  |  |
|  | Manager Page – Metrics |  | Select the Metrics button. | Enables visibility for the Metrics options. |  |  |  |  |
|  |  |  | Select User Totals or By Build. | Radio button is selected depending on specified choice. |  |  |  |  |
|  |  |  | Select a Start Date. | Specified date is the default value of the restricted numeric text field. |  |  |  |  |
|  |  | End Date > Start Date. | Select an End Date. | Specified date is the default value of the restricted numeric text field. |  |  |  |  |
|  |  |  | Click Submit. | Enables visibility for the viewing of metrics. |  |  |  |  |
|  | Manager Page – Calendar |  | Click the Calendar button. | Redirects to the calendar page. |  |  |  |  |
|  | Dashboard Page |  | *Please refer to 5.1.1 User Script, Steps 42-66, 71* |  |  |  |  |  |
|  | Legend Page |  | *Please refer to 5.1.1 User Script, Step 72* |  |  |  |  |  |
|  | Help Page |  | *Please refer to 5.1.1 User Script, Step 73* |  |  |  |  |  |
|  | Logout |  | *Please refer to 5.1.1 User Script, Step 74* |  |  |  |  |  |

### Admin Script

Visit Webpage

Login

Index Page

Admin Page

Dashboard Page

Legend Page

Help Page

Logout

| **ID** | **Step** | **Input or Prequisites** | **Procedure** | **Expected results** | **Actual Results** | **Initials & Date/Time** | **Attachment Ref.** | **Pass/ Fail** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Internet connection already established, and remains established for the duration of testing. A server with the dump file of the database is currently established and running. |  |  |  |  |  |  |
|  |  | bill  admin |  |  |  |  |  |  |
|  |  | notbill  notadmin |  |  |  |  |  |  |
|  |  | Email is known.  bill@bill.bill  asrcscheduler@gmail.com |  |  |  |  |  |  |
|  |  | bill1  admin |  |  |  |  |  |  |
|  |  | bill2  notadminpass |  |  |  |  |  |  |
|  |  | bill1  admin |  |  |  |  |  |  |
|  |  | bill1  admin |  |  |  |  |  |  |
|  |  | bill  admin |  |  |  |  |  |  |
|  |  | bill1  admin |  |  |  |  |  |  |
|  | View Webpage |  | *Please refer to 5.1.1 User Script, Steps 1-2* |  |  |  |  |  |
|  | Login |  | *Please refer to 5.1.1 User Script, Steps 24-26* |  |  |  |  |  |
|  | Index Page |  | *Please refer to 5.1.1 User Script, Steps 27-41* |  |  |  |  |  |
|  | Index Page – Blank User | Time slot must be >= current day | Select a desired timeslot. | Pop up menu shows up and displays relevant info. |  |  |  |  |
|  |  | At least one Build must exist. | Select a desired Build. | Build is chosen and becomes the default drop down selection. |  |  |  |  |
|  |  | At least one Desktop must exist. | Select a desired Desktop. | Desktop is chosen and becomes the default drop down selection. |  |  |  |  |
|  |  |  | Click Reserve, Request, or Release. | Error message pops up and shows that a specific User must be chosen. Popup menu closes itself. |  |  |  |  |
|  | Index Page – Reserve Timeslot | Time slot must be >= current day | Select a desired timeslot. | Pop up menu shows up and displays relevant info. |  |  |  |  |
|  |  | At least one Build must exist. | Select a desired Build. | Build is chosen and becomes the default drop down selection. |  |  |  |  |
|  |  | At least one Desktop must exist. | Select a desired Desktop. | Desktop is chosen and becomes the default drop down selection. |  |  |  |  |
|  |  | At least one User must exist. | Select a desired User. | User is chosen and becomes the default drop down selection. |  |  |  |  |
|  |  |  | Select Reserve. | Timeslot is automatically finalized and reserved for specified user. |  |  |  |  |
|  | Admin Page | The currently logged in user has administrator privileges.  The current user is on the Index page. | Select the Admin button. | Redirected to the Admin page. |  |  |  |  |
|  | Admin Page – View Users |  | Select the Manage Users menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select View Users. | Opens a table of the respective information for all users in the database. |  |  |  |  |
|  | Admin Page – Insert User |  | Select the Manage Users menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  | Email address for specified user already exists. | Select Insert User. | Enables visibility for the options to insert a user. |  |  |  |  |
|  |  | Firstname | Enter First Name. | First Name text field fills with rich text. |  |  |  |  |
|  |  | Lastname | Enter Last Name. | Last Name text field fills with rich text. |  |  |  |  |
|  |  | email@email.com[email@email.com](mailto:) | Enter Email. | Email text field fills with rich text. |  |  |  |  |
|  |  | username | Enter Username. | Username text field fills with rich text. |  |  |  |  |
|  |  | password | Enter Password. | Password text field fills with masked text. |  |  |  |  |
|  |  |  | Select Authorization Level | Selection becomes the default item in the drop down menu. |  |  |  |  |
|  |  |  | Select Add User. | User is added to database. All menu items condense. |  |  |  |  |
|  | Admin Page – Update User |  | Select the Manage Users menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Update User. | Enables visibility for the options to update a user |  |  |  |  |
|  |  | At least one user already exists. | Select a user from the Select User drop down menu. | Selected user becomes default value for the drop down menu. |  |  |  |  |
|  |  |  | Select Authorization Level. | Selection becomes the default item in the drop down menu. |  |  |  |  |
|  |  |  | Select Update User. | Confirmation message appears to show that the user authorization level has been updated. |  |  |  |  |
|  | Admin Page – Change User Password |  | Select the Manage Users menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Change User Password. | Enables visibility for the options to update a user |  |  |  |  |
|  |  | At least one user already exists. | Select a user from the Select User drop down menu. | Selected user becomes default value for the drop down menu. |  |  |  |  |
|  |  | Newpass | Enter New Password. | New Password text field fills with rich text. |  |  |  |  |
|  |  | Newpass | Enter Confirm Password. | Confirm Password text field fills with rich text. |  |  |  |  |
|  |  |  | Select Submit. | Confirmation message appears. |  |  |  |  |
|  | Admin Page – Edit User Privileges |  | Select the Manage Users menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Edit User Privileges. | Enables visibility for the options to edit user privileges. |  |  |  |  |
|  |  | At least one user already exists. | Select a user from the Select User drop down menu. | Selected user becomes default value for the drop down menu. |  |  |  |  |
|  |  | At least one desktop already exists. | Select the respective Desktops for the specified user. | Boxes of the desktops that are desired become checked, and desktops that are not desired become unchecked. |  |  |  |  |
|  |  |  | Click Submit. | Confirmation message appears to show that the user has been updated to include specified Desktops. |  |  |  |  |
|  | Admin Page – Delete User |  | Select the Manage Users menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Delete User. | Enables visibility for the options to delete a user |  |  |  |  |
|  |  | At least one user already exists. | Select a user from the Select User drop down menu. | Selected user becomes default value for the drop down menu. |  |  |  |  |
|  |  |  | Select Delete. | Confirmation message appears to show that the user has been deleted. |  |  |  |  |
|  | Admin Page – View Desktops |  | Select the Manage Desktops menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select View Desktops. | Opens a table of the respective information for all desktops in the database. |  |  |  |  |
|  | Admin Page – Insert Desktop |  | Select the Manager Desktops menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Insert Desktop. | Enables visibility for the options to insert a desktop. |  |  |  |  |
|  |  | testdesktop | Enter Desktop name. | First Name text field fills with rich text. |  |  |  |  |
|  |  |  | Select Insert Desktop. | Desktop is added to database. |  |  |  |  |
|  | Admin Page – Delete Desktop |  | Select the Manage Desktops menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Delete Desktop. | Enables visibility for the options to delete a desktop |  |  |  |  |
|  |  | At least one desktop already exists. | Select a desktop from the Select User drop down menu. | Selected desktop becomes default value for the drop down menu. |  |  |  |  |
|  |  |  | Select Delete. | Confirmation message appears to show that the desktop has been deleted. |  |  |  |  |
|  | Admin Page – Block Desktop |  | Select the Manager Desktops menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Block Desktop. | Enables visibility for the options to block a desktop. |  |  |  |  |
|  |  |  | Select a Date. | Specified date is the default value of the text field. |  |  |  |  |
|  |  |  | Select a Start Time. | Specified time is the default value of the restricted numeric text field. |  |  |  |  |
|  |  |  | Select an End Time. | Specified time is the default value of the restricted numeric text field. |  |  |  |  |
|  |  |  | Select a Desktop. | Selected desktop is now the selection of the Desktops selection menu. |  |  |  |  |
|  |  | Optional, can be left blank and skipped over. | Enter a Comment. | Comment text field fills with rich text. |  |  |  |  |
|  |  |  | Click Submit. | Confirmation message appears. Time has been successfully blocked off for the specified deskop. |  |  |  |  |
|  | Admin Page – View Builds |  | Select the Manage Builds menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select View Builds. | Opens a table of the respective information for all Builds in the database. |  |  |  |  |
|  | Admin Page – Insert Build |  | Select the Manager Builds menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Insert Build. | Enables visibility for the options to insert a Build. |  |  |  |  |
|  |  | testBuild | Enter Build name. | First Name text field fills with rich text. |  |  |  |  |
|  |  |  | Select Insert Build. | Build is added to database. |  |  |  |  |
|  | Admin Page – Delete Build |  | Select the Manage Builds menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Delete Build. | Enables visibility for the options to delete a Build |  |  |  |  |
|  |  | At least one Build already exists. | Select a Build from the Select User drop down menu. | Selected Build becomes default value for the drop down menu. |  |  |  |  |
|  |  |  | Select Delete. | Confirmation message appears to show that the Build has been deleted. |  |  |  |  |
|  | Admin Page – View Installations |  | Select the Manage Installations menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select View Installations. | Opens a table of the respective information for all Installations in the database. |  |  |  |  |
|  | Admin Page – Insert Installation |  | Select the Manager Installations menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Insert Installation. | Enables visibility for the options to insert a Installation. |  |  |  |  |
|  |  | At least one Build already exists. | Select Build. | Selected Build becomes default value for the drop down menu. |  |  |  |  |
|  |  | At least one Desktop already exists. | Select Desktop. | Selected Desktop becomes default value for the drop down menu. |  |  |  |  |
|  |  |  | Select Insert Installation. | Installation is added to database. |  |  |  |  |
|  | Admin Page – Delete Installation |  | Select the Manage Installations menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Delete Installation. | Enables visibility for the options to delete a Installation |  |  |  |  |
|  |  | At least one Build already exists. | Select Build. | Selected Build becomes default value for the drop down menu. |  |  |  |  |
|  |  | At least one Desktop already exists. | Select Desktop. | Selected Desktop becomes default value for the drop down menu. |  |  |  |  |
|  |  |  | Select Delete. | Confirmation message appears to show that the Installation has been deleted. |  |  |  |  |
|  | Admin Page – View Reservations |  | Select the Manage Reservations menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select View Reservations. | Opens a table of the respective information for all Reservations in the database. |  |  |  |  |
|  | Admin Page – Desktop Metrics |  | Select the Metrics menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Desktop Metrics. | Enables visibility for the options of Desktop Metrics. |  |  |  |  |
|  |  |  | Select a Start Time. | Specified time is the default value of the restricted numeric text field. |  |  |  |  |
|  |  |  | Select an End Time. | Specified time is the default value of the restricted numeric text field. |  |  |  |  |
|  |  |  | Click Submit. | Enables visibility for the viewing of metrics of the specified Desktop. |  |  |  |  |
|  | Admin Page – Build Metrics |  | Select the Metrics menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Build Metrics. | Enables visibility for the options of Build Metrics. |  |  |  |  |
|  |  |  | Select a Start Time. | Specified time is the default value of the restricted numeric text field. |  |  |  |  |
|  |  |  | Select an End Time. | Specified time is the default value of the restricted numeric text field. |  |  |  |  |
|  |  |  | Click Submit. | Enables visibility for the viewing of metrics of the specified Build. |  |  |  |  |
|  | Admin Page – Outcome Metrics |  | Select the Metrics menu item. | Opens the submenu items for this Menu item. |  |  |  |  |
|  |  |  | Select Outcome Metrics. | Enables visibility for the options of Outcome Metrics. |  |  |  |  |
|  |  |  | Select By Desktop or By Department | Radio button is selected depending on specified choice. |  |  |  |  |
|  |  |  | Select a Start Time. | Specified time is the default value of the restricted numeric text field. |  |  |  |  |
|  |  |  | Select an End Time. | Specified time is the default value of the restricted numeric text field. |  |  |  |  |
|  |  |  | Click Submit. | Enables visibility for the viewing of metrics of the specified Outcome. |  |  |  |  |
|  | Admin Page – Submit Schedule |  | Select Submit Schedule. | Redirect back to the calendar page. |  |  |  |  |
|  | Dashboard Page |  | *Please refer to 5.1.1 User Script, Steps 42-66, 71* |  |  |  |  |  |
|  | Legend Page |  | *Please refer to 5.1.1 User Script, Step 72* |  |  |  |  |  |
|  | Help Page |  | *Please refer to 5.1.1 User Script, Step 73* |  |  |  |  |  |
|  | Logout |  | *Please refer to 5.1.1 User Script, Step 74* |  |  |  |  |  |

### Algorithm Script

Prime Time Slot Requested

Prime Time Slot Released

Non-Prime Time Slot Requested

Non-Prime Time Slot Released

Schedule Finalized – State 1

Schedule Finalized – State 2

Idle Users

Email to Winners of Slots

| **ID** | **Step** | **Input or Prequisites** | **Procedure** | **Expected results** | **Actual Results** | **Initials & Date/Time** | **Attachment Ref.** | **Pass/ Fail** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Prime Time Slot Requested | The user is logged in and is on the index page. | *Please refer to 5.1.1 User Script, Steps 35-39* | The points increase by 1. *Please refer to the user information in the database for the point changes.* |  |  |  |  |
|  | Prime Time Slot Released | The user is logged in and is on the index page. | *Please refer to 5.1.1 User Script, Steps 40-41* | The points decrease by 1. *Please refer to the user information in the database for the point changes.* |  |  |  |  |
|  | Non-Prime Time Slot Requested | The user is logged in and is on the index page. | *Please refer to 5.1.1 User Script, Steps 35-39* | The points increase by 1. *Please refer to the user information in the database for the point changes.* |  |  |  |  |
|  | Non-Prime Time Slot Released | The user is logged in and is on the index page. | *Please refer to 5.1.1 User Script, Steps 40-41* | The points decrease by 1. *Please refer to the user information in the database for the point changes.* |  |  |  |  |
|  | Schedule Finalized – State 1 | At least one time slot has been requested by 2 or more users. | Set system time to Thursday. | Requested time slots run through the algorithm, and one becomes finalized (given to the user with the lowest amount of points). Respective users increase/decrease their point values. *Please refer to the user information in the database for the point changes.* |  |  |  |  |
|  | Schedule Finalized – State 2 | At least one time slot has been requested by 2 or more users. | Set system time to Friday. | Requested time slots run through the algorithm, and one becomes finalized (given to the user with the lowest amount of points). Respective users increase/decrease their point values. *Please refer to the user information in the database for the point changes.* |  |  |  |  |
|  | Idle Users | User account is already created. | Set last request date to outside the active user range. | Points for the user decrease by 3. *Please refer to the user information in the database for the point changes.* |  |  |  |  |
|  | Email to Winners of Slots | The user account has been created, and they have won a time slot. | *Please refer to 5.1.4 Algorithm Script, Steps 5 and 6.* | Email message is sent to users and notifies them that they have won the slot. |  |  |  |  |

|  |  |
| --- | --- |
| **Test Object** | (The name of the component or function being exercised in the procedure) |
| **Version** |  |

|  |  |
| --- | --- |
| **Test Goal #n** | (The name of the component or function being exercised in the procedure) |
| **Description** |  |

|  |  |
| --- | --- |
| **Test Case #n** |  |
| **Description** |  |

| **Step #** | **Test Prerequisites/Data** | **Test Execution Instructions** | **Expected results** | **Actual Results** | **Pass/ Fail** |
| --- | --- | --- | --- | --- | --- |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |
| 4 |  |  |  |  |  |
| 5 |  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Conclusion** | | | |
| Pass All test/verifications were successfully completed | | | |
| Fail Some test/verifications were not successfully completed | | | |
| Test Incident Report Form No.: | | | |
| **Recorded By** | **Date** | **Verified By** | **Date** |
|  |  |  |  |

|  |
| --- |
| **Comments** |
|  |

| **Requirement/ Use Case** | **Test Case #** | **Description** | **Result**  **(P/F)** | **Reviewer** | **Date** |
| --- | --- | --- | --- | --- | --- |
| Enter the **Requirement #(s)** from the protocol. | Enter the **Test Case #n** from the Validation Protocol. | Enter the test case **Description** from the Validation Protocol. | Enter "P" if the test case passed or "F" if the test case failed. | Enter the name of the person who determined whether or not the test case passed or failed. | Enter the date the test case passed or failed. |
| 1,2 | 1 | Add new Pharmacy. | P | Stewart Browningham | 1/1/2001 |
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