**Test Plan**

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**Revision History**

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# Test Plan

## Purpose

The purpose of this document is to validate the functionality of the Meetings Cost application and verify the application meets all requirements outlined in the project plan.

## Requirement Matrix

|  |  |
| --- | --- |
| **ID** # | **Description** |
| Req – 1 | The application shall allow the user to enter the following meeting information:   1. Meeting Duration 2. Frequency (Weekly) 3. Number of Attendees 4. Attendee Pay Grade 5. Time Scale (per meeting, day, week, month, year) |
| Req – 2 | The application shall create a unique database element for each meeting calculation. |
| Req – 3 | The application shall calculate the meeting cost based on user input data. |
| Req – 4 | The application shall provide a quick reference lookup table for contractor rates for cost estimation. |
| Req – 5 | The application shall provide a quick reference lookup table for government rates for cost estimation. |
| Req – 6 | The application shall allow the user to delete meeting records. |
| Req – 7 | The application shall allow the user to load saved meeting records. |
| Req – 8 | The application shall run on modern web browsers. |
| Req – 9 | The application shall allow the user to browse and load all saved meeting records. |
| Req – 10 | The application shall provide a report generation utility to export meeting records as comma-separated value (.csv) files. |
| Req – 11 | The application shall tag each record with a timestamp. |
| Req – 12 | The application shall notify user if any required inputs are not supplied for cost calculation. |
| Req – 13 | The application shall allow user to create a unique name for saving meeting records. |
| Req – 14 | The application shall prevent the user from using invalid characters when saving meeting records. |
| Req – 15 | The application shall prevent user from entering invalid values for all cost estimation input fields, such as negative costs. |
| Req – 16 | The application shall allow each user to create a unique user account for accessing saved meeting records. |

## Test Steps

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Step #** | **Req. #** | **Test Description** | **Expected Result** | **Actual Result** | **Pass/Fail** |
| **User Registration** | | | | | |
|  | Req - 8 | Open Modern Web Browser and type in URL; Presses Enter | URL takes User to Welcome Page |  |  |
|  | Req - 16 | User chooses Login | Login Page appears |  |  |
|  | Req - 16 | User chooses Registration | Register Page appears |  |  |
|  | Req - 16 | Populate new user fields and select create account. | User account created, the user should be able to login with the user name and password provided. |  |  |
| **Registration Error Handling** | | | | | |
|  |  | Open user registration. | Registration page displays. |  |  |
|  | Req - 16 | Leave some of registration fields blank;  Select Register | Error Page Notification – “Required field is blank” |  |  |
|  | Req - 16 | User types invalid email address with all fields filled; Clicks Register | Error Page - invalid email address box |  |  |
| **Meeting Information** | | | | | |
|  | Req - 1 | Verify the Meeting Time Calculator has the following fields:   * Meeting Duration * Meetings per Week * Number of Attendees * Salary Range * Time Scale | All fields are available for data entry. |  |  |
|  | Req - 3 | Enter the following data:  Duration: 60 (min)  Times per week: 2  Attendees: 3  Salary Range: 50,000  Scale: 1 week  Select Calculate button. | Verify calculated cost is 144.18$ |  |  |
|  | Req – 4 | Select the contractor rate link. | Verify the link directs user to contractor pay scale link. |  |  |
|  | Req – 5 | Select the government rate link. | Verify the link directs user to government pay scale link. |  |  |
| **Meeting Information Error Handling** | | | | | |
|  | Req - 12 | Enter the following data:  Duration: blank  Times per week: 2  Attendees: 3  Salary Range: 50,000  Scale: 1 week  Select Calculate button. | Error dialog displays with notification about missing data fields. |  |  |
|  | Req - 12 | Enter the following data:  Duration: 30 min  Times per week: blank  Attendees: 3  Salary Range: 50,000  Scale: 1 week  Select Calculate button. | Error dialog displays with notification about missing data fields. |  |  |
|  | Req – 12 | Enter the following data:  Duration: 30 min  Times per week: 3  Attendees: blank  Salary Range: 50,000  Scale: 1 week  Select Calculate button. | Error dialog displays with notification about missing data fields. |  |  |
|  | Req – 12 | Enter the following data:  Duration: 30 min  Times per week: 3  Attendees: 3  Salary Range: blank  Scale: 1 week  Select Calculate button. | Error dialog displays with notification about missing data fields. |  |  |
|  | Req – 12 | Enter the following data:  Duration: 30 min  Times per week: 3  Attendees: 3  Salary Range: 50,000  Scale: blank  Select Calculate button. | Error dialog displays with notification about missing data fields. |  |  |
|  | Req - 15 | Enter the following data:  Duration: 0 min  Times per week: 3  Attendees: 3  Salary Range: 50,000  Scale: 1 week  Select Calculate button. | Error dialog displays with notification stating duration must be greater than 0. |  |  |
|  | Req - 15 | Enter the following data:  Duration: 30 min  Times per week:  Attendees: -5  Salary Range: 50,000  Scale: 1 week  Select Calculate button. | Error dialog displays with notification stating negative values cannot be accepted. |  |  |
| **Database Operations** | | | | | |
|  | Req - 13 | Select the Save Meeting Calculation option.  Create filename.  Select Save. | Save As GUI is displayed to user.  Filename is accepted.  Record Saved  Save As GUI closes. |  |  |
|  | Req – 13 | Select the Save Meeting Calculation option.  Attempt to save as the same name from step 19. | Save As GUI is displayed to user.  Warning is displayed about overwriting existing file. |  |  |
|  | Req - 14 | Select the Save Meeting Calculation option.  Enter the following into name field:   * Test.!   Select Save. | Save As GUI is displayed to user.  Error dialog displayed stating “Invalid Character”. |  |  |
|  | Req - 9 | Select the Load Meeting button. | File explorer opens with history of meeting records. |  |  |
|  | Req – 7 | Select a record.  Select Load. | Verify all meeting fields are populated with data from selected record. |  |  |
|  | Req - 6 | Select the Load Meeting button.  Select a meeting Record.  Select Delete. | File explorer opens with history of meeting records.  Record is deleted. |  |  |
|  | Req – 11 | Select the Load Meeting button. | Verify all saved meetings have a timestamp appended on the filename. |  |  |
| **Export Controls** | | | | | |
|  | Req – 10 | Select the Export option. | Export GUI displays |  |  |
|  | Req – 10 | In the Export GUI:   * Create filename * Select Local file location   Select Export | A .csv file with the selected name is saved in the designated directory. |  |  |
|  | Req – 10 | Navigate to the directory the .csv file is located in.  Open .csv in MS Excel. | All data is captured from Meeting application in Excel spreadsheet. |  |  |