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**AN A01 TEST PLAN**

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| Test Name | Test Details | Expected Outcomes | RAG | Comments |
| Logging in:  Erroneous test  Boundary test | * Login to the program using the details “user” & “user” * Login to the program using the details “x” & “x” * Login to the program using the details “aslkdhaslkdhaskldhas” & “skladjlsakdhjklsadjasjl” | I expect the program to let me login. The program should then ask me for my surname because I get the family details before showing any options for the user.  For my erroneous & boundary tests, I expect to be told this is an incorrect login and for it to let me try again. |  | Ref: A1 |
| Family Surname:  Erroneous test  Boundary test | * Enter family surname * Enter “1” * Enter “aslkdhaslkdhaskldhas” | I expect the program to ask me how many people are in my family. For my erroneous & boundary tests, I expect it to ask for a valid input. Then I will enter a valid input and see if it works properly. |  | Ref: A2 |
| Family Surname fix:  Boundary Test | * Enter “1” | For my erroneous test, I expect it to ask for a valid input. Then I will enter a valid input and see if it works properly. |  | Ref: A3 I used std::size\_t found = sLine.find\_firstof().c\_str() and a variable called sNumbers, with |
| Family People:  Erroneous Test  Boundary Test | * Enter “2” * Enter “x” * Enter “1000” | I expect my program to keep going and ask each person in the family how old they are for the normal test.  For the erroneous test I expect it to ask for a valid input, and for the boundary test I expect it to ask for a lower number. |  | Ref: A4 I added an if statement to check if the number is smaller than 1 and bigger than 10, and if they are it asks for a number between the two just mentioned |
| Family People fix:  Boundary Test | Enter “10000” | for the boundary test I expect it to ask for a lower number. |  | Ref: A5 |
| Age:  Erroneous Test  Boundary Test | Enter “20”  Enter “x”  Enter “1000” | I expect my program to keep going and ask either another person in the family how old they are or go onto the next thing in the normal test.  For the erroneous test I expect it to ask for a valid input, and for the boundary test I expect it to ask for a lower number. |  | Ref: A6 |
| Select an Option:  Erroneous Test  Boundary Test | Enter “1”  Enter “nah”  Enter “1000” | For the normal test, I expect my program to showcase locations and go into picking a location for the user. For my erroneous and boundary testing, I expect an error message to show. |  | Ref: A7 |
| Select an Option:  Erroneous Test  Boundary Test | Enter “2”  Enter “nah”  Enter “1000” | For the normal test, I expect my program to showcase locations and go into showing all locations for the user. For my erroneous and boundary testing, I expect an error message to show. |  | Ref: A8 |
| Select an Option:  Erroneous Test  Boundary Test | Enter “3”  Enter “nah”  Enter “1000” | For the normal test, I expect my program to showcase locations and go into showing all activities stored. For my erroneous and boundary testing, I expect an error message to show. |  | Ref: A9 |
| Select an Option:  Erroneous Test  Boundary Test | Enter “4”  Enter “nah”  Enter “1000” | For the normal test, I expect my program to showcase locations and go into picking a location for the user. For my erroneous and boundary testing, I expect an error message to show. |  | Ref: A10 |
| Select an Option:  Erroneous Test  Boundary Test | Enter “5”  Enter “nah”  Enter “1000” | For the normal test, I expect my program to close. For my erroneous and boundary testing, I expect an error message to show. |  | Ref: A11 |
| Select an Option:  Erroneous Test  Boundary Test | Enter “6”  Enter “nah”  Enter “1000” | For the normal test, I expect my program to ask for the user to re-enter their family details. For my erroneous and boundary testing, I expect an error message to show. |  | Ref: A12 |
| Select an Option:  Erroneous Test  Boundary Test | Enter “7”  Enter “nah”  Enter “1000” | For the normal test, I expect my program to ask what the user would like to delete. For my erroneous and boundary testing, I expect an error message to show. |  | Ref: A13 |
| Select an Option:  Erroneous Test  Boundary Test | Enter “8”  Enter “nah”  Enter “1000” | For the normal test, I expect my program to ask the user how many custom activities they want to add. For my erroneous and boundary testing, I expect an error message to show. |  | Ref: A14 |
| Select an Option:  Erroneous Test  Boundary Test | Enter “10”  Enter “nah”  Enter “1000” | For the normal test, I expect my program to showcase all activities they can verify. For my erroneous and boundary testing, I expect an error message to show. |  | Ref: A15 |
| Which Country:  Erroneous Test  Boundary Test | Enter “1” | For the normal test, I have only selected one person in the family, which is under the minimum people and therefore should not work and should return an error message. |  | Ref: A16 I forgot to add an if statement for this, an oversight now corrected. |
| Which Country:  Erroneous Test  Boundary Test | Enter “1”  Enter “x”  Enter “1000”  Enter “1” | For the normal test, I have only selected one person in the family, which is under the minimum people and therefore should not work and should return an error message. For my erroneous test, I am entering a string to see if it will error. For my boundary, I am entering a ridiculously high number to see if the program will error. I am also doing a final test to check to see if it would work if I did it properly. |  | Ref: A17 |
| Which Activity:  Erroneous Test  Boundary Test | Enter “1”  Enter “x”  Enter “1000” | For the normal test, the program should then ask me what my activity will be. For my erroneous & boundary an error message should appear |  | Ref: A18 |
| Choosing an Activity:  Erroneous Test  Boundary Test | Enter “1”  Enter “x”  Enter “1000” | For the normal test, the program should then ask me if I want any custom activities. For my erroneous & boundary an error message should appear. |  | Ref: A19 |
| Adding Custom Activity:  Erroneous Test  Boundary Test | Enter “1”  Enter “yes”  Enter “aslkdhlaskhlkfhalkshfkl” | For the normal test, the program should then ask me what I want to name my custom activity. For my erroneous & boundary an error message should appear. |  | Ref: A20 |
| Number of custom activities:  Erroneous Test  Boundary Test | Enter “1”  Enter “x”  Enter “1000” | For the normal test, the program should then the program asks what you would name your custom activities. For the erroneous & boundary an error message should appear. |  | Ref: A21 |
| Custom Activity Name:  Erroneous Test  Boundary Test | Enter “name”  Enter “1”  Enter “aslkhdalshfal” | For the normal test, the program should then ask how much the custom activity would cost. For the boundary test, it should still work as it is technically a name. For the erroneous an error message should appear. |  | Ref: A22 |
| Custom Activity Cost:  Erroneous Test  Boundary Test | Enter “10”  Enter “x”  Enter “1000” | For the normal test, the program should ask what location the custom activity will be in. For the boundary test and the erroneous test, it should error. |  | Ref: A23 |
| Custom Activity Location:  Erroneous Test  Boundary Test | Enter “Florida”  Enter “1”  Enter “saldhasflas” | For the normal test, the program should then print out the results to the user. For the boundary test, it should do the same. However, for the erroneous test it should give an error message. |  | Ref: A24 Note: The error where it shows 4 activities only shows because I did errors in certain places – I do not know how to fix it. |
| Loading a Booking:  Erroneous Test  Boundary Test | Enter “1”  Enter “notabookingnamemate”  Enter “Coler” | For the first two tests, the program should not load a booking. |  | Ref: A25 Note: Failed to fix this. However, I don’t think this is such a big deal because the error doesn’t crash the program. |
| Verify a user suggested activity:  Erroneous Test  Boundary Test | Enter “5”  Enter “x”  Enter “1000” | For the normal test, the program should verify the activity, which I will then check by showing verified activities. For the erroneous and boundary tests, |  | Ref: A26 |

**Appendix 1: Testing Evidence**

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| Ref: A1 |  |
| Ref A2 |  |
| Ref A3 |  |
| Ref A4 |  |
| Ref A5 |  |
| Ref A6 |  |
| Ref A7 |  |
| Ref A8 |  |
| Ref A9 |  |
| Ref A10 |  |
| Ref A11 |  |
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| Ref A22 |  |
| Ref A23 |  |
| Ref A24 |  |
| Ref A25 |  |
| Ref A26 |  |