Non–Functional Requirement Test Cases & Results

1. Performance (Response time & Throughput)

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| **Test Case #:** P-1  **System:** Tourist Assist App  **Designed by:** Mohammed  **Short Description:** Test the response time of the screen when the user logs in and app displays the dashboard. | **Test Case Name:** Login Response Time |

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| **Pre-conditions:** The user is a registered user and has valid login credentials like username and password. |

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| **Step** | **Action** | **Expected System Response** | **Expected Response Time** |
| 1 | Enter username | System displays username | The transition from the Login page to the Dashboard page takes less than 1 second to display the dashboard completely. |
| 2 | Enter password | System displays hidden password |
| 3 | Click on Login button | System take the user to dashboard |

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| **Exceptions:**   * Connection Error * Another App Interruption * Login Credentials entered wrong |

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| **Post-conditions:** After clicking the login page, the user sees the dashboard with all the functionalities in less than a second. |

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| **Results:** After testing for 100 different types of users from 4 different regions, the dashboard was displayed in less than one second. |

2. Recoverability

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| **Test Case #:** R-1  **System:** Tourist Assist App  **Designed by:** Mohammed  **Short Description:** Test if the app can come back to its previous state in case of a system shut down | **Test Case Name:** System Shut Down Recovery |

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| **Pre-conditions:** The user is logged in to the app and currently adding a new destination to a trip |

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| **Step** | **Action** | **Expected System Response** |
| 1 | Select Destination | The destination is selected and destination profile page is shown |
| 2 | Shut Down Phone | Phone shuts down and app is closed unexpectedly |
| 3 | Restart Phone | Phone restarts |
| 4 | Open Tourist Assist App | App displays the destination profile page and saved all the previous entered information before the phone was shut down. |

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| **Exceptions:**   * No Battery and so cannot restart the phone immediately * Internet Connection Error before shutting down the phone |

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| **Post-conditions:** After a rapid shut down of the system, the app saves and displays the previous state when app is reopened after restarting the system |

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| **Results:** After testing the test case for 10 times, every time the state was saved and information was not lost when the app was restarted |

3. Security

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| **Test Case #:** S-1  **System:** Tourist Assist App  **Designed by:** Mohammed  **Short Description:** Test if any fake username and password can open the app on the user’s phone. | **Test Case Name:** Login Security Test |

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| **Pre-conditions:** The Username and Password for the user is “admin” & “admin123456#” respectively and the app is installed on the phone. |

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| **Step** | **Action** | **Expected System Response** |
| 1 | Enter ‘admin’ in username | App displays ‘admin’ in username field |
| 2 | Enter ‘admin’ in password | App displays ‘\*\*\*\*\*’ in password field |
| 3 | Click on Login button | App displays ‘Password Incorrect’ |

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| **Post-conditions:** The user is not allowed to login if the password is not correct |

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| **Results:** 200 different combinations of the username “admin” with different fake passwords were tried to login to the system. The system did not login to any of those combination |