

Test Cases - TC

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### ## Test Case Summary

| Test Case ID | Title                                    | Priority | Module/Feature                                                                   | Test Type                                                                                          | Description                                      | Objective                                              | Preconditions           | Test Steps                                                                                                    | Expected Results | Post-Conditions | Notes |
|--------------|------------------------------------------|----------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------|------------------|-----------------|-------|
| 1            | TC_Profile_ContactInfo_View              | High     | Profile                                                                          | Functional                                                                                         | View contact information in the user profile     | Ensure contact info is correctly displayed             | User is logged in       | 1. Login as 'User' and navigate to: Main Menu → Profile   'Profile' screen is displayed                       |                  |                 |       |
| 1            | 1                                        |          | 2. Locate 'Contact Information' section                                          | Section is visible and displays '01068002334', 'seif.tamer2003@gmail.com'                          |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 1            | 1                                        |          | 3. Verify LinkedIn and GitHub links are present                                  | 'linkedin.com/in/seif-tamer3' and 'github.com/Seiftamer' links are visible and clickable           |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 2            | TC_Profile_ContactInfo_Update            | High     | Profile                                                                          | Functional                                                                                         | Update contact information in the user profile   | Verify updates to contact info are saved and displayed | User is logged in       | 1. Navigate to: Main Menu → Profile   'Profile' screen is displayed                                           |                  |                 |       |
| 2            | 2                                        |          | 2. Click 'Edit' on 'Contact Information' section                                 | Edit mode is enabled for contact info fields                                                       |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 2            | 2                                        |          | 3. Update 'Phone Number' to '01123456789' and 'Email' to 'new.email@example.com' | Fields are updated with new values                                                                 |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 2            | 2                                        |          | 4. Click 'Save'                                                                  | Success message "Contact information updated" is displayed   Contact info is updated in the system |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 2            | 2                                        |          | 5. Verify updated contact info is displayed                                      | '01123456789' and 'new.email@example.com' are shown in profile                                     |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 3            | TC_Profile_ContactInfo_ValidateMandatory | High     | Profile                                                                          | Validation                                                                                         | Validate mandatory fields in contact information | Ensure mandatory fields are enforced                   | User is logged in       | 1. Navigate to: Main Menu → Profile   'Profile' screen is displayed                                           |                  |                 |       |
| 3            | 3                                        |          | 2. Click 'Edit' on 'Contact Information' section                                 | Edit mode is enabled                                                                               |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 3            | 3                                        |          | 3. Clear 'Phone Number' and 'Email' fields                                       | Fields are empty                                                                                   |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 3            | 3                                        |          | 4. Click 'Save'                                                                  | Error message "Phone Number and Email are required" is displayed   No changes are saved            |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 4            | TC_Profile_ContactInfo_ValidateOptional  | Medium   | Profile                                                                          | Validation                                                                                         | Validate optional fields in contact information  | Ensure optional fields can be left blank               | User is logged in       | 1. Navigate to: Main Menu → Profile   'Profile' screen is displayed                                           |                  |                 |       |
| 4            | 4                                        |          | 2. Click 'Edit' on 'Contact Information' section                                 | Edit mode is enabled                                                                               |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 4            | 4                                        |          | 3. Clear 'LinkedIn' and 'GitHub' fields                                          | Fields are empty                                                                                   |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 4            | 4                                        |          | 4. Click 'Save'                                                                  | Success message "Contact information updated" is displayed   Optional fields are saved as blank    |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 5            | TC_Profile_ContactInfo_InvalidEmail      | Medium   | Profile                                                                          | Negative                                                                                           | Enter invalid email format in contact info       | Ensure invalid emails are rejected                     | User is logged in       | 1. Navigate to: Main Menu → Profile   'Profile' screen is displayed                                           |                  |                 |       |
| 5            | 5                                        |          | 2. Click 'Edit' on 'Contact Information' section                                 | Edit mode is enabled                                                                               |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 5            | 5                                        |          | 3. Enter 'invalid-email' in 'Email' field                                        | Field is updated                                                                                   |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 5            | 5                                        |          | 4. Click 'Save'                                                                  | Error message "Invalid email format" is displayed   No changes are saved                           |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 6            | TC_Profile_ContactInfo_InvalidPhone      | Medium   | Profile                                                                          | Negative                                                                                           | Enter invalid phone number in contact info       | Ensure invalid phone numbers are rejected              | User is logged in       | 1. Navigate to: Main Menu → Profile   'Profile' screen is displayed                                           |                  |                 |       |
| 6            | 6                                        |          | 2. Click 'Edit' on 'Contact Information' section                                 | Edit mode is enabled                                                                               |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 6            | 6                                        |          | 3. Enter '12345' in 'Phone Number' field                                         | Field is updated                                                                                   |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 6            | 6                                        |          | 4. Click 'Save'                                                                  | Error message "Invalid phone number" is displayed   No changes are saved                           |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 7            | TC_Profile_ContactInfo_CancelEdit        | Low      | Profile                                                                          | Usability                                                                                          | Cancel editing contact information               | Ensure canceling edit discards changes                 | User is logged in       | 1. Navigate to: Main Menu → Profile   'Profile' screen is displayed                                           |                  |                 |       |
| 7            | 7                                        |          | 2. Click 'Edit' on 'Contact Information' section                                 | Edit mode is enabled                                                                               |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 7            | 7                                        |          | 3. Change 'Phone Number' to '0999999999'                                         | Field is updated                                                                                   |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 7            | 7                                        |          | 4. Click 'Cancel'                                                                | Edit mode is closed, original contact info is displayed   No changes are saved                     |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 8            | TC_Profile_ContactInfo_AccessControl     | High     | Profile                                                                          | Security                                                                                           | Verify access control for contact info           | Ensure only profile owner can edit contact info        | User A and User B exist | 1. Login as 'User B' and navigate to: Main Menu → Profile of User A   'Profile' screen of User A is displayed |                  |                 |       |
| 8            | 8                                        |          | 2. Locate 'Contact Information' section                                          | Section is visible                                                                                 |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 8            | 8                                        |          | 3. Verify 'Edit' button is not present                                           | 'Edit' button is hidden for User B                                                                 |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 9            | TC_Profile_ContactInfo_ViewAsGuest       | Medium   | Profile                                                                          | Security                                                                                           | View contact info as guest                       | Ensure guests cannot view sensitive contact info       | No user is logged in    | 1. Navigate to: Main Menu → Public Profile of User   'Public Profile' screen is displayed                     |                  |                 |       |
| 9            | 9                                        |          | 2. Locate 'Contact Information' section                                          | Only non-sensitive fields (e.g., LinkedIn, GitHub) are visible                                     |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 10           | TC_Profile_ContactInfo_AuditLog          | Medium   | Profile                                                                          | Audit                                                                                              | Verify audit log for contact info updates        | Ensure all changes are logged                          | User is logged in       | 1. Navigate to: Main Menu → Profile   'Profile' screen is displayed                                           |                  |                 |       |
| 10           | 10                                       |          | 2. Click 'Edit' on 'Contact Information' section                                 | Edit mode is enabled                                                                               |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 10           | 10                                       |          | 3. Update 'Phone Number' to '01234567890'                                        | Field is updated                                                                                   |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 10           | 10                                       |          | 4. Click 'Save'                                                                  | Success message is displayed                                                                       |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 10           | 10                                       |          | 5. Navigate to: Admin Menu → Audit Logs                                          | 'Audit Logs' screen is displayed                                                                   |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 10           | 10                                       |          | 6. Search for 'Contact Information' updates                                      | Log entry for the update is present with timestamp and user ID                                     |                                                  |                                                        |                         |                                                                                                               |                  |                 |       |
| 11           | TC_Profile_ContactInfo_ConcurrentEdit    | Medium   | Profile                                                                          | Multi-user                                                                                         | Simultaneous edit of contact info by two users   | Ensure last save wins and                              |                         |                                                                                                               |                  |                 |       |

users are notified | • User A and User B exist<br>• Both are logged in | 1. User A and User B navigate to: Main Menu → Profile | Both see 'Profile' screen || |

| 11 | ||||| | 2. Both click 'Edit' on 'Contact Information' section | Both enter edit mode || |

| 11 | ||||| | 3. User A updates 'Phone Number' to '0111111111' and saves | Success message is displayed for User A || |

| 11 | ||||| | 4. User B updates 'Phone Number' to '0222222222' and saves | User B receives conflict warning "Profile updated by another user. Please refresh." | Only User A's changes are saved || |

| 12 | TC\_Profile\_ContactInfo\_Internationalization | Low | Profile | I18N | Verify contact info supports international characters | Ensure fields accept and display Unicode | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 12 | ||||| | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled || |

| 12 | ||||| | 3. Enter '■■■■■ ■■■■' in 'Name' field | Field is updated || |

| 12 | ||||| | 4. Click 'Save' | Success message is displayed | Name is displayed as '■■■■■ ■■■■' in profile || |

| 13 | TC\_Profile\_ContactInfo\_Accessibility | Medium | Profile | Accessibility | Verify accessibility of contact info section | Ensure section is accessible via screen reader | • User is logged in<br>• Screen reader is enabled | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 13 | ||||| | 2. Use screen reader to navigate to 'Contact Information' section | Screen reader announces all field labels and values || |

| 14 | TC\_Profile\_ContactInfo\_Responsive | Low | Profile | UI | Verify contact info section on mobile devices | Ensure responsive layout for small screens | • User is logged in<br>• Using mobile device | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 14 | ||||| | 2. View 'Contact Information' section | Section is displayed correctly, no horizontal scrolling || |

| 15 | TC\_Profile\_ContactInfo\_Export | Medium | Profile | Functional | Export contact info to PDF | Ensure export functionality works and data is correct | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 15 | ||||| | 2. Click 'Export to PDF' button in 'Contact Information' section | PDF is generated and downloaded | PDF contains correct contact info || |

| 16 | TC\_Profile\_ContactInfo\_Import | Medium | Profile | Functional | Import contact info from CSV | Ensure import functionality works and data is correct | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 16 | ||||| | 2. Click 'Import from CSV' button in 'Contact Information' section | File upload dialog appears || |

| 16 | ||||| | 3. Upload 'contactinfo.csv' with valid data | File is uploaded | Contact info fields are updated with CSV data || |

| 17 | TC\_Profile\_ContactInfo\_ImportInvalid | Medium | Profile | Negative | Import contact info from invalid CSV | Ensure invalid CSV is rejected | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 17 | ||||| | 2. Click 'Import from CSV' button | File upload dialog appears || |

| 17 | ||||| | 3. Upload 'invalid\_contactinfo.csv' with missing headers | Error message "Invalid CSV format" is displayed | No changes are saved || |

| 18 | TC\_Profile\_ContactInfo\_History | Low | Profile | Functional | View history of contact info changes | Ensure history is displayed correctly | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 18 | ||||| | 2. Click 'History' button in 'Contact Information' section | History modal is displayed | All previous changes are listed with timestamps || |

| 19 | TC\_Profile\_ContactInfo\_RestoreHistory | Low | Profile | Functional | Restore previous contact info from history | Ensure restore functionality works | • User is logged in<br>• Profile has history | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 19 | ||||| | 2. Click 'History' in 'Contact Information' section | History modal is displayed || |

| 19 | ||||| | 3. Select previous version and click 'Restore' | Success message "Contact info restored" is displayed | Contact info is reverted to selected version || |

| 20 | TC\_Profile\_ContactInfo\_Delete | Medium | Profile | Functional | Delete contact info | Ensure delete functionality works and data is removed | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 20 | ||||| | 2. Click 'Delete' button in 'Contact Information' section | Confirmation dialog appears || |

| 20 | ||||| | 3. Confirm deletion | Success message "Contact info deleted" is displayed | Contact info section is cleared || |

| 21 | TC\_Profile\_ContactInfo\_DeleteCancel | Low | Profile | Usability | Cancel delete contact info | Ensure canceling delete does not remove data | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 21 | ||||| | 2. Click 'Delete' button in 'Contact Information' section | Confirmation dialog appears || |

| 21 | ||||| | 3. Click 'Cancel' in confirmation dialog | Dialog is closed, contact info remains unchanged || |

| 22 | TC\_Profile\_ContactInfo\_Notification | Low | Profile | Functional | Receive notification on contact info update | Ensure user receives notification after update | • User is logged in<br>• Notifications are enabled | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 22 | ||||| | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled || |

| 22 | ||||| | 3. Update 'Email' to 'notify@example.com' and save | Success message is displayed | Notification "Your contact info was updated" is received || |

| 23 | TC\_Profile\_ContactInfo\_NotificationDisabled | Low | Profile | Functional | Update contact info with notifications disabled | Ensure no notification is received | • User is logged in<br>• Notifications are disabled | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 23 | ||||| | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled || |

| 23 | ||||| | 3. Update 'Email' to 'silent@example.com' and save | Success message is displayed | No notification is received || |

| 24 | TC\_Profile\_ContactInfo\_Timeout | Medium | Profile | Negative | Session timeout during contact info edit | Ensure unsaved changes are lost after timeout | • User is logged in<br>• Profile screen is accessible<br>• Session timeout is set to 1 min | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 24 | ||||| | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled || |

| 24 | ||||| | 3. Wait for 1 minute without saving | Session timeout occurs, user is logged out | Unsaved changes are lost || |

| 25 | TC\_Profile\_ContactInfo\_Recovery | Medium | Profile | Recovery | Recover contact info after accidental deletion | Ensure deleted info can be restored | • User is logged in<br>• Contact info was deleted | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed || |

| 25 | ||||| | 2. Click 'Recover Deleted Info' in 'Contact Information' section | Recovery dialog appears || |

| 25 | ||||| | 3. Select last deleted version and restore | Success message "Contact info restored" is displayed | Contact info is restored || |

| 26 | TC\_Profile\_ContactInfo\_IntegrationCRM | High | Profile | Integration | Sync contact info with external CRM | Ensure contact info is synced with CRM system | • User is logged in<br>• CRM integration is enabled | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 26 | | | | | | | 2. Click 'Sync with CRM' in 'Contact Information' section | Sync process starts | Success message "Contact info synced with CRM" is displayed | |

| 26 | | | | | | | 3. Verify CRM system for updated info | CRM system displays latest contact info | | |

| 27 | TC\_Profile\_ContactInfo\_IntegrationFailure | Medium | Profile | Integration | Handle CRM sync failure | Ensure user is notified on sync failure | • User is logged in<br>• CRM system is offline | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 27 | | | | | | | 2. Click 'Sync with CRM' in 'Contact Information' section | Sync process starts | Error message "CRM system unavailable" is displayed | |

| 28 | TC\_Profile\_ContactInfo\_RateLimit | Medium | Profile | Security | Test rate limiting on contact info updates | Ensure excessive updates are blocked | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 28 | | | | | | | 2. Update 'Phone Number' 10 times within 1 minute | After 5th update, error message "Rate limit exceeded" is displayed | No further updates allowed for 1 hour | |

| 29 | TC\_Profile\_ContactInfo\_SQLInjection | High | Profile | Security | Attempt SQL injection in contact info fields | Ensure fields are protected from SQL injection | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 29 | | | | | | | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 29 | | | | | | | 3. Enter ";" DROP TABLE users; -- in 'Email' field | Field is updated | | |

| 29 | | | | | | | 4. Click 'Save' | Error message "Invalid input" is displayed, no SQL executed | Database remains intact | |

| 30 | TC\_Profile\_ContactInfo\_XSS | High | Profile | Security | Attempt XSS in contact info fields | Ensure fields are protected from XSS | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 30 | | | | | | | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 30 | | | | | | | 3. Enter "<script>alert('XSS')</script>" in 'LinkedIn' field | Field is updated | | |

| 30 | | | | | | | 4. Click 'Save' | Input is sanitized, no script is executed | LinkedIn field displays as plain text | |

| 31 | TC\_Profile\_ContactInfo\_UnicodeEmail | Low | Profile | Functional | Enter Unicode characters in email field | Ensure Unicode emails are accepted if valid | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 31 | | | | | | | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 31 | | | | | | | 3. Enter '██@██.██' in 'Email' field | Field is updated | | |

| 31 | | | | | | | 4. Click 'Save' | Success message is displayed, email is saved | Email is displayed as '██@██.██' | |

| 32 | TC\_Profile\_ContactInfo\_MaxLength | Medium | Profile | Validation | Enter max length in contact info fields | Ensure fields enforce max length | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 32 | | | | | | | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 32 | | | | | | | 3. Enter 256 characters in 'LinkedIn' field | Field is updated | | |

| 32 | | | | | | | 4. Click 'Save' | Error message "Maximum length exceeded" is displayed | No changes are saved | |

| 33 | TC\_Profile\_ContactInfo\_MinLength | Medium | Profile | Validation | Enter minimum length in contact info fields | Ensure fields enforce min length | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 33 | | | | | | | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 33 | | | | | | | 3. Enter 'a' in 'LinkedIn' field | Field is updated | | |

| 33 | | | | | | | 4. Click 'Save' | Error message "Minimum length required" is displayed | No changes are saved | |

| 34 | TC\_Profile\_ContactInfo\_Whitespace | Low | Profile | Validation | Enter whitespace in contact info fields | Ensure fields trim whitespace | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 34 | | | | | | | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 34 | | | | | | | 3. Enter 'seif.tamer2003@gmail.com ' in 'Email' field | Field is updated | | |

| 34 | | | | | | | 4. Click 'Save' | Email is saved as 'seif.tamer2003@gmail.com' (trimmed) | No leading/trailing whitespace | |

| 35 | TC\_Profile\_ContactInfo\_CopyPaste | Low | Profile | Usability | Copy and paste contact info fields | Ensure fields support copy-paste operations | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 35 | | | | | | | 2. Select and copy 'Email' field value | Value is copied to clipboard | | |

| 35 | | | | | | | 3. Paste value into 'LinkedIn' field | Value is pasted successfully | | |

| 36 | TC\_Profile\_ContactInfo\_TabOrder | Low | Profile | Usability | Verify tab order in contact info fields | Ensure logical tab order for accessibility | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 36 | | | | | | | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 36 | | | | | | | 3. Press 'Tab' key repeatedly | Focus moves logically through fields: Phone → Email → LinkedIn → GitHub | | |

| 37 | TC\_Profile\_ContactInfo\_FieldLabels | Low | Profile | UI | Verify field labels in contact info section | Ensure all fields have correct labels | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 37 | | | | | | | 2. Locate all field labels in 'Contact Information' section | Labels: 'Phone Number', 'Email', 'LinkedIn', 'GitHub' are visible | | |

| 38 | TC\_Profile\_ContactInfo\_Tooltips | Low | Profile | UI | Verify tooltips for contact info fields | Ensure tooltips provide helpful info | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 38 | | | | | | | 2. Hover over 'Email' field label | Tooltip "Enter a valid email address" is displayed | | |

| 39 | TC\_Profile\_ContactInfo\_HelpLink | Low | Profile | Usability | Verify help link in contact info section | Ensure help link opens relevant documentation | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 39 | | | | | | | 2. Click 'Help' link in 'Contact Information' section | Help documentation opens in new tab | | |

| 40 | TC\_Profile\_ContactInfo\_KeyboardShortcuts | Low | Profile | Usability | Use keyboard shortcuts in contact info section | Ensure keyboard shortcuts work as expected | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 40 | | | | | | | 2. Press 'Ctrl+E' to edit contact info | Edit mode is enabled | | |

| 40 | ||||| | 3. Press 'Ctrl+S' to save changes | Changes are saved, success message is displayed | | |

| 41 | TC\_Profile\_ContactInfo\_AutoSave | Medium | Profile | Functional | Auto-save contact info changes | Ensure changes are auto-saved after editing | • User is logged in<br>• Profile screen is accessible<br>• Auto-save enabled | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 41 | ||||| | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 41 | ||||| | 3. Update 'Phone Number' to '01234567890' | Field is updated | | |

| 41 | ||||| | 4. Wait for 10 seconds without clicking 'Save' | Auto-save occurs, success message "Changes auto-saved" is displayed | Changes are persisted | |

| 42 | TC\_Profile\_ContactInfo\_AutoSaveDisabled | Low | Profile | Functional | Edit contact info with auto-save disabled | Ensure changes are not saved automatically | • User is logged in<br>• Profile screen is accessible<br>• Auto-save disabled | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 42 | ||||| | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 42 | ||||| | 3. Update 'Phone Number' to '09876543210' | Field is updated | | |

| 42 | ||||| | 4. Wait for 10 seconds without clicking 'Save' | No auto-save occurs, changes are not persisted | | |

| 43 | TC\_Profile\_ContactInfo\_UnsavedChangesWarning | Medium | Profile | Usability | Warn user about unsaved changes | Ensure warning is shown when navigating away | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 43 | ||||| | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 43 | ||||| | 3. Update 'Phone Number' to '01234567890' | Field is updated | | |

| 43 | ||||| | 4. Attempt to navigate to 'Dashboard' without saving | Warning "You have unsaved changes. Continue?" is displayed | User must confirm navigation | |

| 44 | TC\_Profile\_ContactInfo\_UnsavedChangesDiscard | Medium | Profile | Usability | Discard unsaved changes after warning | Ensure changes are lost if user confirms | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 44 | ||||| | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 44 | ||||| | 3. Update 'Phone Number' to '01234567890' | Field is updated | | |

| 44 | ||||| | 4. Attempt to navigate to 'Dashboard' without saving | Warning is displayed | | |

| 44 | ||||| | 5. Click 'Yes' to discard changes | Navigation proceeds, changes are lost | | |

| 45 | TC\_Profile\_ContactInfo\_UnsavedChangesStay | Medium | Profile | Usability | Stay on page after unsaved changes warning | Ensure user can stay and save changes | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 45 | ||||| | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled | | |

| 45 | ||||| | 3. Update 'Phone Number' to '01234567890' | Field is updated | | |

| 45 | ||||| | 4. Attempt to navigate to 'Dashboard' without saving | Warning is displayed | | |

| 45 | ||||| | 5. Click 'No' to stay on page | Remain on 'Profile' screen, changes are not lost | | |

| 46 | TC\_Profile\_ContactInfo\_ChangeDetection | Low | Profile | Functional | Detect changes in contact info fields | Ensure save button is enabled only when changes are made | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 46 | ||||| | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled, 'Save' button is disabled | | |

| 46 | ||||| | 3. Update 'Phone Number' | 'Save' button becomes enabled | | |

| 47 | TC\_Profile\_ContactInfo\_NoChangeSave | Low | Profile | Functional | Attempt to save without changes | Ensure save is disabled if no changes | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 47 | ||||| | 2. Click 'Edit' on 'Contact Information' section | Edit mode is enabled, 'Save' button is disabled | | |

| 47 | ||||| | 3. Click 'Save' without making changes | No action occurs, 'Save' button remains disabled | | |

| 48 | TC\_Profile\_ContactInfo\_ReadOnlyMode | Medium | Profile | Security | View contact info in read-only mode | Ensure fields are not editable in read-only mode | • User is logged in<br>• Profile is set to read-only | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 48 | ||||| | 2. Locate 'Contact Information' section | Fields are visible but not editable | | |

| 49 | TC\_Profile\_ContactInfo\_ExportCSV | Low | Profile | Functional | Export contact info to CSV | Ensure export to CSV works correctly | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 49 | ||||| | 2. Click 'Export to CSV' button in 'Contact Information' section | CSV file is generated and downloaded | CSV contains correct contact info | |

| 50 | TC\_Profile\_ContactInfo\_ExportFailure | Medium | Profile | Negative | Handle export failure | Ensure user is notified on export error | • User is logged in<br>• Profile screen is accessible<br>• Export service is offline | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 50 | ||||| | 2. Click 'Export to PDF' button | Error message "Export service unavailable" is displayed | No file is downloaded | |

| 51 | TC\_Profile\_ContactInfo\_ImportOverwrite | Medium | Profile | Functional | Import contact info and overwrite existing | Ensure import overwrites current data | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 51 | ||||| | 2. Click 'Import from CSV' button | File upload dialog appears | | |

| 51 | ||||| | 3. Upload 'overwrite\_contactinfo.csv' with new data | File is uploaded | Existing contact info is replaced with new data | |

| 52 | TC\_Profile\_ContactInfo\_ImportPartial | Medium | Profile | Functional | Import partial contact info from CSV | Ensure only provided fields are updated | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 52 | ||||| | 2. Click 'Import from CSV' button | File upload dialog appears | | |

| 52 | ||||| | 3. Upload 'partial\_contactinfo.csv' with only 'Email' field | File is uploaded | Only 'Email' field is updated, others remain unchanged | |

| 53 | TC\_Profile\_ContactInfo\_ImportLargeFile | Medium | Profile | Negative | Import large CSV file | Ensure large files are handled gracefully | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |

| 53 | ||||| | 2. Click 'Import from CSV' button | File upload dialog appears | | |

| 53 | ||||| | 3. Upload 'large\_contactinfo.csv' (10,000 rows) | Error message "File too large" is displayed | No changes are saved | |

| 54 | TC\_Profile\_ContactInfo\_ImportEncoding | Medium | Profile | Functional | Import CSV with UTF-8 encoding | Ensure Unicode data is imported

correctly | • User is logged in<br>• Profile screen is accessible | 1. Navigate to: Main Menu → Profile | 'Profile' screen is displayed | | |  
| 54 | | | | | | | 2. Click 'Import from CSV' button | File upload dialog appears | | |  
| 54 | | | | | | | 3. Upload 'utf8\_contactinfo.csv' with Unicode data | File is uploaded | Unicode data is displayed correctly in contact info | |  
| 55 | TC\_Profile\_ContactInfo\_ImportWrongEncoding | Medium |