| Test Case | Test Objective | Preconditions | Test Steps | Test Data | Expected Result | Actual Result | Pass/Fail | Priority |
|---|---|---|---|---|---|---|---|---|
| 1 | Verify that the user can create a new profile | App is installed and running | 1. Open app<br>2. Go to Sign Up<br>3. Enter valid info<br>4. Click 'Create' | Username = Jack / Age = 20 / Gender = M / City = Bangkok | Profile is created successfully and stored in database | New user 'Jack' created successfully, app displayed 'User created successfully!' | Pass | High |
| 2 | Ensure duplicate usernames are rejected | Existing user 'Boon' already in database | 1. Try to create profile with same username | Username = Boon | System displays 'Username already exists' | Duplicate creation blocked successfully | Pass | High |
| 3 | Verify login and switch user function | At least two users exist | 1. Log out current user<br>2. Log in as another user | User1 = Boon / User2 = Jackie | User switched successfully and correct profile displayed | Switched to Jackie successfully, info displayed correctly | Pass | High |
| 4 | Check 'Find Match' function by preference | Multiple profiles exist | 1. Open Find Match<br>2. Set filters<br>3. Click Search | Gender = M / City = Bangkok / Interest = Music | Displays list of users matching filter | System displayed matched users correctly by city/hobby | Pass | High |
| 5 | Validate match scoring logic | Profiles with overlapping interests exist | 1. Open Find Match<br>2. Observe ranking by shared interests | Interest overlap = 2 | Users with more common interests have higher scores | Matches shown correctly ranked by shared interest | Pass | Medium |
| 6 | Test 'No matches found' case | Filters are too strict | 1. Open Find Match<br>2. Apply impossible filters | Gender = M / Location = Bangkok | Displays 'No matches found' | System correctly displayed 'No matches found' | Pass | Medium |
| 7 | Send message between users | Two matched users exist | 1. User A opens chat<br>2. Type message<br>3. Press Send | Message = 'Hi' | Message saved and delivered; recipient notified | 'Message sent successfully!' shown; message appears in chat history | Pass | High |
| 8 | Prevent empty message submission | Users are in chat screen | 1. Leave text box blank<br>2. Click Send | Message = (blank) | System shows 'Message cannot be empty' | Validation prevented blank message | Pass | Medium |
| 9 | Verify message order by time | Several messages exist between users | 1. Open chat history | - | Messages shown chronologically | Messages displayed in correct timestamp order | Pass | Medium |
| 10 | Test notification for unread messages | User has 1 unread message | 1. Switch to receiver account<br>2. Check notification icon | - | Shows correct unread count and clears after viewing | Unread message shown then cleared after reading | Pass | High |
| 11 | Record personal note on user profile | Logged-in user viewing another profile | 1. Open target profile<br>2. Add note<br>3. Save | Note = 'Hi' | Note saved with timestamp and retrievable later | Note created successfully and retrieved later | Pass | Medium |
| 12 | View notes sorted by time | Multiple notes exist | 1. Open Notes section | - | Notes displayed newest to oldest | Note 'Hi' shown with timestamp, order correct | Pass | Low |
| 13 | Check data persistence after restart | Profiles and messages exist | 1. Close app<br>2. Reopen<br>3. Check saved data | - | All data remains intact | Data persisted correctly between sessions | Pass | High |
| 14 | Validate invalid input handling | App running | 1. Enter text in Age field<br>2. Click Save | Age = 'abc' | Validation error; profile not saved | App rejected invalid input correctly | Pass | High |
| 15 | Ensure long text handling works | App running | 1. Enter very long message/note<br>2. Save | Bio = 1000 characters | System truncates or shows error; no crash | App handled long text without crash | Pass | Medium |
| 16 | Confirm UTF-8 text (Thai & emoji) support | App running | 1. Enter Thai text or emoji<br>2. Send | Message = 'Hi' | Message stored & displayed correctly | Thai text displayed properly without corruption | Pass | Medium |