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QAI ASSIGNMENT

**1 ▪ Critical Functional & Security Issues**

| **#** | **Issue (summary)** | **Steps to Reproduce** | **Expected Behaviour** | **Actual Behaviour** | **Severity** |
| --- | --- | --- | --- | --- | --- |
| 1 | **No error message on wrong login** | Login with incorrect email / password | Clear “Invalid credentials” message | Page just reloads, no feedback | **High** |
| 2 | **Fields accept blanks on Register** | Click **Create Account** with empty inputs | Validation errors for each empty field | No error, may still proceed | **High** |
| 3 | **Home opens without session** | Directly navigate to /home (or refresh after logout) | Redirect to **Login** | Page loads, user remains “logged‑in” | **High** |
| 4 | **Delete Account lacks confirmation** | Click **Delete Account** in navbar | Modal / OTP confirmation first | Immediate irreversible delete | **High** |
|  |  |  |  |  |  |

**2 ▪ User‑Experience & UI Issues**

| **#** | **Issue** | **Impact** | **Severity** |
| --- | --- | --- | --- |
| 5 | No password‑strength check (accepts “123”) | Weak security, poor guidance | Medium |
| 6 | No success toast after registration | User unsure account was created | Medium |
| 7 | No “Forgot Password” option | Dead‑end for locked‑out users | Medium |
| 8 | Minor input overlap on small screens | Mobile usability glitch | Low |

**3 ▪ Recommended Fixes (Prioritised)**

| **Area** | **Recommendation** |
| --- | --- |
| **Auth Validation** | Implement client‑ & server‑side required‑field checks; display inline error text. |
| **Session Protection** | Guard /home route with JWT/session check; redirect unauthenticated users. |
| **Feedback & Confirmation** | Show toast/snackbar for successful register/login; add confirmation modal before delete. |
| **Password Rules** | Enforce min 6‑char length, show strength meter. |
| **Recovery Flow** | Add **“Forgot Password?”** link triggering email/OTP reset. |
| **Responsive UI** | Tweak CSS (flex/grid) so card & inputs scale on ≤ 480 px width. |

**4 ▪ Test Coverage Achieved**

| **Flow** | **Checked Scenarios** |
| --- | --- |
| **Registration** | Empty fields, weak password, duplicate email |
| **Login** | Wrong creds, correct creds, session persistence |
| **Home** | Direct access, refresh, logout behaviour |
| **Account Deletion** | Click action, post‑delete state |

*Total defects logged:* ***8*** *(4 High, 3 Medium, 1 Low).*