

<u>Test Case ID</u>	<u>Story ID</u>
TC4.1	US4
TC4.2	US4
TC4.3	US4
TC4.4	US4
TC5.1	US5
TC5.2	US5
TC6.1	US6
TC6.2	US6
TC2.1	TS2

TC2.2	TS2
TC2.3	TS2
TC3.1	TS3
TC3.2	TS3
TC3.3	TS3

<u>Feature</u>	<u>Test Description</u>
User Registration	Register with valid credentials
User Registration	Invalid email format
User Registration	Password too short
User Registration	Email already in use
User Login	Login with valid credentials
User Login	Invalid login
Save Profile Data	Save new profile
Save Profile Data	Update existing profile
API Integration	Fetch 30-day data for 5 stocks

API Integration	API failure handling
API Integration	Data caching
DB Schema Setup	Check required tables
DB Schema Setup	CRUD on users table
DB Schema Setup	CRUD on Profiles table + Auth check

Test Steps

1. Open registration form
2. Enter test@example.com
3. Enter password: Test@1234
4. Click Register

1. Open registration form
2. Enter email: invalid-email
3. Enter valid password
4. Click Register

1. Open registration form
2. Enter valid email
3. Enter password: 123
4. Click Register

1. Open registration form
2. Enter already registered email
3. Enter valid password
4. Click Register

1. Go to login page
2. Enter registered email and password
3. Click Login

1. Go to login page
2. Enter wrong email or password
3. Click Login

1. Open profile form
2. Fill out all fields (age, risk level, goals)
3. Click Save

1. Open profile
2. Modify any field
3. Click Save

1. Trigger backend to fetch historical data
2. Select stocks like AAPL, GOOGL, etc.
3. Inspect returned data

1. Simulate API failure (e.g., disconnect)

2. Trigger fetch again

1. Fetch data for the first time

2. Fetch same data again

3. Monitor performance/logs

1. Inspect DB schema

2. Ensure Users, Profiles, and HistoricalData tables exist

1. Create user

2. Read user

3. Update user

4. Delete user

1. Create profile linked to user

2. Read profile

3. Update profile

4. Delete profile

5. Validate user-profile auth relationship

Expected Result

Redirected to login page after successful registration

Error message about invalid email format

Error message about password length

Error shown: email already in use

Redirected to dashboard

Error message for invalid credentials

Data saved and confirmation shown

Updated profile and confirmation message shown

30-day price/trend data fetched correctly

Graceful error handling, app stays responsive

Second fetch should use cache, faster response time

All required tables present in schema

All CRUD operations successful

All operations work, profile links to correct user

<u>Actual Result</u>	<u>Status</u>
✗ Registration failed – not redirected	Failed
✗ Validation skipped – allowed invalid email input	Failed
✗ Error not triggered for short password	Failed
✗ Duplicate email allowed – no validation	Failed
✗ Login form unresponsive – dashboard not reached	Failed
✗ No error shown – system allowed invalid login	Failed
Profile saved successfully	Passed
Profile updated successfully	Passed
Data fetched as expected	Passed

Error handled correctly, no crash	Passed
cached data used, response improved	Passed
Tables found as expected	Passed
All operations completed successfully	Passed
CRUD passed but ✖ Auth check failed - user-profile linkage not verified	Failed