



USER PERSONA AND TESTING

SPRINT 1

Device: Infinix 5G, (ANDROID 13)

Persona 1:

Short Bio: James Peterson is a 46-year-old truck driver who spends long hours on the road across Alberta and Saskatchewan. He values convenience in healthcare and often seeks treatment only when symptoms interfere with work.

Location: Red Deer, Alberta

Age Range: 40–49

Primary Symptoms: Lower back pain (Musculoskeletal)

Detailed Description: Began experiencing a dull ache in the lower back about a week ago after unloading heavy cargo. The pain worsens when bending or sitting for long periods. Rates pain at 6/10, with occasional sharp discomfort radiating to the right hip. Has tried over-the-counter pain relief with limited effect.

Observations during testing:

- Sign-up and onboarding completed successfully; auto-navigated to dashboard.
- AI Symptom Assessment worked efficiently, giving detailed back pain insights and treatment suggestions.
- Manual symptom logging correctly reflected the AI assessment in the Daily Log & History.
- Date filters worked accurately with no lag.
- Log details remained consistent after app restart.
- Vision detection tested fine; camera permission prompt appeared and worked as expected.
- Profile info (medical and contact details) saved accurately.
- Location services enabled and correctly showed nearby emergency clinics on Google Maps.

Bug: Password field during login did not show typed characters (not visible input).

Persona 2:

Short Bio: Emily Tran is a 27-year-old graphic designer who works remotely. She leads a mostly sedentary lifestyle and spends extended hours on her computer.

Location: Calgary, Alberta

Age Range: 20–29

Primary Symptoms: Eye strain and headache (Neurological/Ocular)

Detailed Description: Reports recurring headaches behind the eyes for the past 4 days, especially after long screen time. Describes dull pressure and mild light sensitivity. Sleep schedule has been irregular due to late work nights. Rates discomfort at 4/10.

Observations during testing:

- Account creation smooth; automatically redirected to dashboard.
- AI Symptom Assessment gave detailed analysis of visual fatigue and ergonomic recommendations.
- Manual symptom logging worked properly; entries appeared in the Daily Log and History.
- Date filters accurate; no delay in results.
- All data persisted after restarting app.
- Vision detection (camera test) responded instantly; image preview loaded correctly.
- Profile validation accurate; editing info worked fine.
- Location services tested both enabled and disabled states — enable prompt appeared properly.

Bug: Password not visible during login input.

Persona 3:

Short Bio: Robert Jenkins is a 62-year-old retired mechanic who enjoys gardening and home repair. He has mild hypertension and a history of joint stiffness.

Location: Lethbridge, Alberta

Age Range: 60–69

Primary Symptoms: Swollen knee (Musculoskeletal/Inflammatory)

Detailed Description: Reports right knee swelling and stiffness for 3 days after kneeling for extended periods while working on his garden. Pain rated 5/10 when walking, 7/10 when climbing stairs. No visible bruising but mild warmth around the joint.

Observations during testing:

- Sign-up completed after one retry (minor initial load delay).
- AI Symptom Assessment quickly recognized musculoskeletal condition and provided relevant care tips.
- Manual log successfully recorded and displayed in Daily Log & History.
- Date filter worked correctly, accurately showing recent entries.
- Validation of logs showed complete and correct information.
- Vision detection feature loaded without crash; camera tested fine.
- Profile info loaded properly, though editing medical info took ~2 seconds longer to save.
- Emergency page location services enabled correctly, showing nearest clinics.

Bug: Password input field on login screen did not display characters while typing.

Persona 4:

Short Bio: Aisha Khan is a 35-year-old single mother and part-time barista. She has a busy daily routine and limited time for rest.

Location: Edmonton, Alberta

Age Range: 30–39

Primary Symptoms: Persistent cough (Respiratory)

Detailed Description: Has had a dry cough lasting 10 days, gradually worsening at night. No fever but occasional chest tightness and fatigue. Works in a café with exposure to cleaning chemicals and coffee dust. Rates symptom discomfort at 5/10.

Observations during testing:

- Sign-up process and onboarding navigation worked smoothly.
- AI Symptom Assessment gave accurate respiratory insights and suggested care actions.
- Manual symptom entry logged correctly in both Daily Log and History.
- Date filters responded quickly and accurately.
- Verified log details — all consistent post-restart.
- Vision detection activated and returned “No visual data detected” correctly (as expected).
- Profile validation accurate; emergency contact fields loaded without lag.
- Location services disabled test: proper “Enable Location” prompt appeared and redirected to settings.

Bug: Password text not visible while entering login credentials.

Persona 5:

Short Bio: Olivia Martinez is a 51-year-old high school counselor who practices yoga regularly. She maintains a healthy diet but occasionally experiences digestive issues under stress.

Location: Medicine Hat, Alberta

Age Range: 50–59

Primary Symptoms: Abdominal bloating (Gastrointestinal)

Detailed Description: Reports abdominal bloating and mild cramping after meals for the past week. Denies nausea or vomiting. Feels fullness even after small meals; rates discomfort at 3/10. Recently increased intake of high-fiber foods and carbonated water.

Observations during testing:

- Sign-up successful; onboarding loaded directly to dashboard.
- AI Symptom Assessment generated a detailed explanation and logged entry automatically.
- Manual symptom log added smoothly and displayed in history.
- Date filter and sorting both worked accurately.
- Daily Log entries persisted and matched AI results.
- Vision detection worked normally with no delays.
- Profile page accurate — edits saved properly for conditions and allergies.
- Emergency page loaded nearby clinics; map opened instantly via Google Maps.

Bug: Password input field remains invisible during login typing.

Device: Pixel 9 XL PRO, Android 14.0 (using Android Studio)

Persona 1:

Persona 1: Billie Joe

Short Bio: Billie is a 35-year-old lead singer living in Edmonton, Alberta. He spends his time at his job being a teacher for guitar and spends his weekends practicing his skills or playing at venues.

Location: Edmonton, Alberta

Age Range: 30-39

Primary Symptoms: Itchy rash on hands (Dermatological – skin irritation)

Detailed Description: During playing a concert Billie experienced red, itchy rash on the hands. The skin may appear dry, flaky, or slightly blistered. The main problem could be frequent contact with guitar strings. He got this about 2-3 days ago, he thought it would go away on its own but it has worsen.

Observations during testing:

Observation 1: the sign-up wasn't working at first, but I clicked sign in and then create account and it worked smoothly. (im not too sure if that was my system or not)

Observation 2: The result from the AI did not take long to give a detail explanation on what the condition could be.

Observation 3: the symptom tracker did track my assessment from earlier and has all details still there.

Observation 4: Date filter worked perfectly no delay and accurate.

Observation 5: opening entry details took over 5 seconds to load, but all data stayed saved after restarting the app.

Observation 6: Enabling location on emergency page and loading a clinic in a few seconds. Pressing the button also showed me the location on google maps.

Observation 7: Profile information is correct and accurate, loads quickly.

Observation 8: Sign out works perfectly and instantly.

Persona 2:

Persona 2: Todd Malcolms

Short Bio: Todd is a 20-year-old from Calgary, Alberta. He loves to play basketball as his main hobby and is always on the court. He plays games mostly outside but sometimes inside as well.

Location: Calgary, Alberta

Age Range: 18-24

Primary Symptoms: Skin ulcer and localized swelling (Dermatological – trauma-related injury)

Detailed Description: A painful sore developed on Todd's right knee after scraping it during an outdoor basketball game a week ago. The area has become swollen, red, and tender with a small scab that has dark crusting around the edges. The skin feels warm to touch, but he has no fever. Pain is rated 8/10. Despite cleaning it regularly, the sore has enlarged over several days. Todd suspects it may have become infected from dirt or sweat exposure while playing basketball.

Observations during testing:

Observation 1: The app wouldn't allow me to sign in again and had to press sign in then create account for it to go through. Besides that sign up goes through quick. Allowed me put letters for the emergency number

Observation 2: AI result loads quick and addresses concerns with detail. Loaded an image that looks pretty bad and AI told me to get urgent care.

Observation 3: Trying to add an entry log into the app and the screen randomly turned black(?) Log entry still worked.



Observation 4: Filter worked and showed all the details

Observation 5: Details stayed after restarting the app.

Observation 7: Profile information is correct and accurate, loads quickly.

Observation 8: Enabling location on emergency page and loading a clinic in a few seconds. Pressing the button also showed me the location on google maps.

Persona 3:

Persona 3: Tom York

Short Bio: Tom is a 60-year-old construction worker living in Red Deer, Alberta. He spends long hours working outdoors and often handles power tools and heavy materials. In his free time, he enjoys camping and barbecuing with friends.

Location: Stettler, Alberta

Age Range: 65+

Primary Symptoms: Burn (thermal – mild to moderate hand injury)

Detailed Description: Tom accidentally touched a hot metal surface while welding at work two days ago. The affected area on his right palm shows redness, swelling, and a small blister. Pain is rated 6/10 and worsens when he grips tools. He has been applying cream, but the area remains tender and sensitive.

Observations during testing:

Observation 1: The sign up failed a lot of times resulting me in going back from sign in and creating account.

Observation 2: AI took a few seconds to load information and recognized my image

Observation 3: Date range is working correctly and showing the information.

Observation 4: Filter works and shows the entries

Observation 5: Shows all the available clinics in the area and opens into google maps

Observation 6: Profile loaded info that was put at the account creation but editing the info and looking again the info does not save.

Persona 4:

Persona 4: Clair Ohe

Short Bio: Clair is a 46-year-old chef from Lethbridge, Alberta. She works long shifts in a busy kitchen, often moving between hot stoves and freezers. In her spare time, she enjoys baking with her kids and walking her dog.

Location: Lethbridge, Alberta

Age Range: 35-44

Primary Symptoms: Cold Injury (frostbite – localized skin damage)

Detailed Description: After a long freezer inventory shift at work, Clair noticed numbness and pale patches on her fingertips. Over the next few hours, the skin became red, swollen, and slightly blistered. Pain is 7/10. She reports tingling and stiffness but no open wounds. She suspects mild frostbite from prolonged exposure to cold metal surfaces in the walk-in freezer.

Observations during testing:

Observation 1: Account creation went smoothly.

Observation 2: The AI result of the injury gave good details and was helpful. Call buttons worked all good.

Observation 3: Date and time work perfectly no problems.

Observation 4: Filter works showing entries at the right date

Observation 5: No details missing from any of the entries

Observation 6: Emergency Page all numbers lead the number page and location services work as well

Observation 7: Profile page has info from account creation but does not save edited information when page is reloaded

Persona 5:

Persona 5: Dey Maria

Short Bio: Dey is a 60-year-old fitness trainer in Edmonton, Alberta. She spends most of her time coaching clients at the gym and enjoys hiking and soccer in her free time.

Location: Edmonton, Alberta

Age Range: 55-64

Primary Symptoms: Infection (cellulitis – bacterial skin infection)

Detailed Description: Dey noticed redness and slight swelling on her left calf after a small scrape from soccer. The area feels warm and tender but not severe. Pain is 3/10. She suspects the wound got mildly infected from sweat and friction during workouts.

Observations during testing:

Observation 1: Sign up went good nothing bad and was pretty quick

Observation 2: AI result took a few seconds and was presented great detail of my injury

Observation 3: Date and time selection works good and data entry appears even going back a few months

Observation 4: Emergency page location services work well and numbers good too.

Observation 5: Profile page medical information does not save all even from the account creation. It saved the conditions but not the allergies

Device: Pixel 7, Android 16.0 (using Android Studio)

Persona 1:

Persona 1: Lydia Morrison

Short Bio: Lydia is a 32-year-old graphic designer living in Drayton Valley, Alberta. She works remotely and spends weekends gardening and walking her dog on local trails.

Location: Drayton Valley, Alberta

Age Range: 30-39

Primary Symptoms: Rash (Dermatological – hand lesions)

Detailed Description: After a weekend of gardening, Lydia developed itchy, red, cracked areas on both hands with some dry scabs and small open patches. The skin feels tight and painful when washed with soap. Severity rated 6/10. Symptoms began two days ago and are slowly spreading around the knuckles. She suspects irritant or contact dermatitis from plants or detergents.

Observations during testing:

Observation 1: For Flow 1, the sign-up and onboarding worked smoothly and quickly. No delay or errors noticed.

Observation 2: For Flow 2, the AI result took about 10 seconds to load but gave a detailed and relevant diagnosis.

Observation 3: For Flow 3, the date and time picker showed the wrong values after selection. For example, choosing Oct 7 displayed Oct 2. The app also froze for around 4–5 seconds when opening the History tab.

Observation 4: For Flow 4, the date filters worked correctly and showed accurate results with no delay.

Observation 5: For Flow 5, opening entry details took over 5 seconds to load, but all data stayed saved after restarting the app.

Observation 6: For Flow 6, using the Android virtual device caused the app to get stuck and crash a few seconds after clicking “Start Detection.” (see screenshot)

Observation 7: For Flow 7, the profile page loaded fast and showed all fields correctly. No missing info.

Observation 8: For Flow 8, the nearby clinic list loaded in about 3–4 seconds. The map opened correctly and showed the right location.

Observation 9: For Flow 9, after turning location back on, clinics loaded again in about 3–4 seconds. Everything worked fine.



Persona 2:

Persona 2: Trevor Sanders

Short Bio: Trevor is a 51-year-old truck driver from Hanna, Alberta. He often works long hours outdoors and gets occasional minor cuts and scrapes.

Location: Hanna, Alberta

Age Range: 45-54

Primary Symptoms: Infection (Skin ulcer / localized swelling)

Detailed Description: A week-old sore near his left ear has become painful and swollen, with a raised red lump that has dark crusting on top. He feels warm to touch in that area but no fever. Severity 8/10. Lesion appeared to enlarge over three days despite cleaning with antiseptic cream. He suspects infection from an insect bite that did not heal properly.

Observations during testing:

Observation 1: For Flow 1, the app froze for about 3–4 seconds after sign-up before moving to the dashboard.

Observation 2: For Flow 2, the AI result loaded in around 3–4 seconds. The photo was uploaded, but the AI ignored it and gave a diagnosis only based on the text description.

Observation 3: For Flow 3, the date and time picker still showed wrong values, same as in Persona 1. The app also crashed right after uploading a photo.

Observation 4: For Flow 4, the filter worked fast and showed the right data.

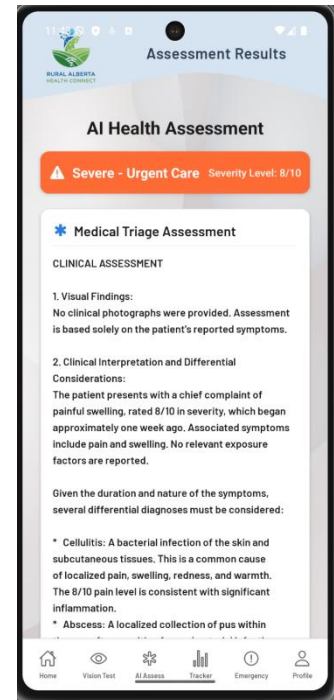
Observation 5: For Flow 5, all details were correct, and data stayed saved after restarting the app.

Observation 6: For Flow 6, the app crashed immediately after tapping “Vision Test.”

Observation 7: For Flow 7, the profile information was correct and loaded quickly.

Observation 8: For Flow 8, the clinic list took about 5 seconds to load. The address was correct and the map opened properly.

Observation 9: For Flow 9, there was no permission screen. It took around 10 seconds to load, then clinics appeared normally.



Persona 3:

Persona 3: Nancy Dubois

Short Bio: Nancy is a 63-year-old retired school counselor in Stettler, Alberta. She enjoys gardening and volunteering at the community centre.

Location: Stettler, Alberta

Age Range: 60-69

Primary Symptoms: Rash (Dermatological – widespread eruption)

Detailed Description: Noticed widespread red spots on both thighs and lower legs three days ago. The rash is slightly raised and itchy but not painful. No fever or new medications other than a recent antibiotic course. Severity 5/10. She thinks it could be a drug reaction or allergic rash after antibiotic use.

Observations during testing:

Observation 1: For Flow 1, the sign-up and onboarding were quick and smooth with no delay.

Observation 2: For Flow 2, the AI result took about 5 seconds to load and successfully recognized the uploaded image.

Observation 3: For Flow 3, the date and time still showed the wrong values, and the app froze for around 5 seconds after selecting an image to upload.

Observation 4: For Flow 4, opening the Daily Log took about 4–5 seconds. The History tab showed no data at first, but after restarting the app, all entries appeared correctly.

Observation 5: For Flow 5, all data stayed saved after restart, but loading each entry took around 4–5 seconds.

Observation 6: For Flow 6, after tapping “Vision Test,” the app loaded for about 3 seconds and then crashed.

Observation 7: For Flow 7, the profile loaded correctly but the Allergies field was missing, even though it was filled before.

Observation 8: For Flow 8, the clinic list loaded in about 2–3 seconds, data was accurate, and the map opened successfully.

Observation 9: For Flow 9, there was no permission screen. After around 4–5 seconds, the clinics reloaded successfully.

Persona 4:

Persona 4: Cole Martinez

Short Bio: Cole is a 26-year-old construction apprentice from Lac La Biche, Alberta. He often works outdoors in cold conditions handling metal equipment.

Location: Lac La Biche, Alberta

Age Range: 25-34

Primary Symptoms: Cold Injury (Chilblain-like finger lesions)

Detailed Description: After several hours working outside in freezing temperatures without proper gloves, his fingers developed red swollen areas with tender blisters and mild itching. Pain rated 5/10. Symptoms worsen when hands warm up indoors and improve gradually with rest. No open wounds but skin appears shiny and tight.

Observations during testing:

Observation 1: For Flow 1, when creating a new account with a password shorter than 8 characters, the warning message flashed too quickly and disappeared. The user might not notice it and get stuck without knowing why. Other fields worked fine, and the app moved to the dashboard successfully.

Observation 2: For Flow 2, the AI result loaded in about 5 seconds and matched the uploaded image. Entries were created in both Daily Log and History, but the pages first appeared empty for 4–5 seconds before showing the data.

Observation 3: For Flow 3, the date/time picker bug was still there, but photo upload worked fine.

Observation 4: For Flow 4, filtering worked correctly with no delay and showed the right entries.

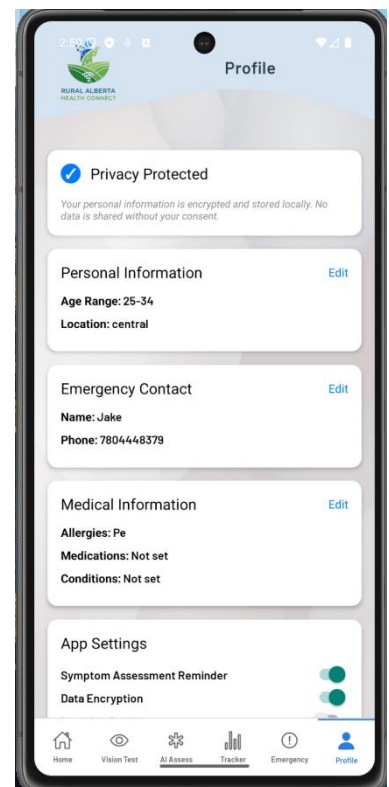
Observation 5: For Flow 5, all details were correct, and data stayed saved after restarting the app.

Observation 6: For Flow 6, the app crashed again right after tapping “Start Detection.”

Observation 7: For Flow 7, part of the profile data was missing — the “Allergies” field showed only “Pe” instead of “Peanuts.” (see screenshot)

Observation 8: For Flow 8, the clinic list loaded in 2–3 seconds. The map opened correctly and showed the right address.

Observation 9: For Flow 9, there was no permission prompt. The page refreshed normally after 2–3 seconds.



Persona 5:

Persona 5: Irene Campbell

Short Bio: Irene is a 48-year-old elementary school principal from Vermilion, Alberta. She supervises science projects and occasionally assists with lab demonstrations.

Location: Vermilion, Alberta

Age Range: 45-54

Primary Symptoms: Burn Injury (Partial thickness burn on hand)

Detailed Description: Accidentally spilled boiling water on the back of her right hand while helping in a school experiment earlier today. The affected area is red, painful, and covered with a large blister where the skin peeled away. Severity 8/10. Applied cool water immediately but continues to feel throbbing pain.

Observations during testing:

Observation 1: For Flow 1, loading the dashboard took longer than usual, around 8 seconds after sign-up.

Observation 2: For Flow 2, the AI result loaded in about 5 seconds and correctly recognized the uploaded burn image.

Observation 3: For Flow 3, the date/time picker bug was still there. The app responded slowly (about 4–5 seconds) after uploading a photo. In the History tab, no data showed at first, but entries appeared after waiting 3–4 seconds.

Observation 4: For Flow 4, filtering worked well with fast response and correct results.

Observation 5: For Flow 5, all data displayed correctly and stayed saved after closing and reopening the app.

Observation 6: For Flow 6, the app crashed immediately after tapping "Vision Test," instead of after starting detection like before.

Observation 7: For Flow 7, all profile fields loaded correctly with no missing data.

Observation 8: For Flow 8, clinic results loaded in about 2–3 seconds, and the map opened with the correct address.

Observation 9: For Flow 9, there was no permission prompt, and the clinics reloaded successfully in about 3 seconds.

Bugs & Issues List

#	Category	Description	Frequency	Severity
1	Date/Time Picker	Selected date and time often display incorrect values (e.g., choosing Oct 7 shows Oct 2).	All personas	Medium
2	App Crash – Vision Test	App crashes either immediately after entering the Vision Test page or right after clicking “Start Detection.”	All personas	High
3	AI Image Handling	In some cases, uploaded photos were ignored by AI, and analysis relied only on text input.	1–2 personas	Medium
4	Delayed Data Load (History/Daily Log)	History and Daily Log pages sometimes show no data for several seconds before loading entries.	Several personas	Medium
5	Profile Data Loss	Certain fields (especially “Allergies”) are missing or cut off after reopening the profile.	2 personas	Medium
6	Password Validation Message	The password warning during sign-up flashes too quickly, causing confusion for users.	1 persona	Low
7	Slow Dashboard Loading	Dashboard occasionally takes 7–8 seconds to load after sign-up.	1 persona	Low
8	No Permission Prompt	When re-enabling location services, the app reloads clinics but does not show a permission popup.	Most personas	Low
9	Upload Lag	Uploading photos in symptom logs causes 4–5 seconds of freezing before the page updates.		

Device: Samsung S23 One UI 6.0, Android 14

Persona 1: Wallace Greene

Short Bio: Wallace is a 45-year-old grain farmer near Drumheller. He spends most of his days outdoors and often works long hours during seeding and harvest. He rarely visits clinics unless symptoms interfere with work.

Location: Calgary Area

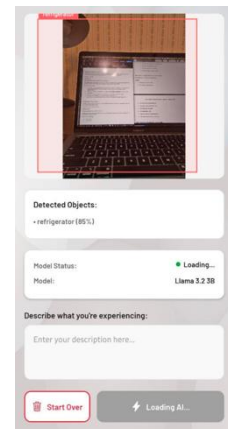
Age Range: 45-54

Primary Symptoms: Burns & Heat Injuries

Detailed Description: Developed mild-to-moderate sunburn on the back of his neck and forearms after working in direct sunlight for several hours during harvest. The affected skin is red, warm to touch, and slightly peeling. Reports pain and tightness rated at 8/10 in severity but no blistering or fever. Applied aloe gel for temporary relief.

Observations during testing:

- Observation 1: During "Create Your Account," the password input is visible even without clicking the "eye" icon. It should default to hidden (****) to ensure privacy. The same issue occurs on the personal information registration screen. The phone number of emergency contact is not well formatted.
- Observation 2: The app crashed about 10 seconds after auto-navigating from the registration screen to the dashboard if no user action was taken.
- Observation 3: After completing the first AI assessment, the app showed noticeable visual lag when switching between the Daily Log and History tabs. The response was not slow, but there were visible "ghosting" effects during transitions.
- Observation 4: Test Flows 2 to 5 were completed successfully, and all items in the validation checklists were met.
- Observation 5: During Test Flow 6 (Vision Detection), the app crashed again after tapping "Take Photo." The camera interface remained stuck on a continuous loading screen and did not proceed to the next step.
- Observation 6: During Test Flows 7 and 8, response times were within 3 seconds for all sections. Nearby clinic results in the Emergency tab loaded within 5 seconds. All clinic information was correct, but the displayed distance was inaccurate (listed as 0.5 km when the actual distance was approximately 13 km). Only one clinic was shown.



Persona 2: Emily Carson

Short Bio: Emily is a 28-year-old veterinary assistant in Rocky Mountain House. She loves trail running with her dogs and often handles livestock at local farms.

Location: Edmonton Area

Age Range: 25-34

Primary Symptoms: Musculoskeletal (Joint Pain)

Detailed Description: Developed knee pain after a trail run 4 days ago. Pain worsens when bending or walking downhill. No swelling, but stiffness after rest.

Observations during testing:

- Observation 1: The app crashed during the registration process when entering the last name field.
- Observation 2: The local clinic list displayed only one option again, and it was not an actual medical clinic but a homeless shelter.
- Observation 3: The AI health assessment response time was approximately 5 seconds, noticeably slower than the previous persona. When providing the same test image, the AI failed to generate a detailed analysis on the first attempt but successfully did so on the second try.
- Observation 4: The app performance appears to degrade over time, likely due to stacked navigation screens. After several uses, loading a single History entry took more than 5 seconds, and the saved photo was not retrieved properly.

The image shows a screenshot of an 'AI Health Assessment' interface. At the top, there's a header 'AI Health Assessment' and a status bar indicating 'Moderate - Prompt Care' and 'Severity Level: 5/10'. Below this, there's a section titled 'Medical Triage Assessment' with a blue star icon. The text in this section reads: 'I apologize, but I'm unable to provide a detailed visual analysis at this time. Based on your reported symptoms (itching) with severity 5/10, I recommend: Please contact Health Link Alberta at 811 for a proper medical assessment, as they can provide personalized guidance based on your specific situation. For immediate medical emergencies (difficulty breathing, chest pain, severe bleeding, loss of consciousness), always call 911.' Below this is a 'Symptom Summary' section with a blue 'S' icon. It contains a table with the following data: Category: Rash & Skin Conditions, Duration: 2+ weeks ago, Severity: 5/10, and Key Symptoms: Itching.

Category	Duration
Rash & Skin Conditions	2+ weeks ago

Severity: 5/10

Key Symptoms: Itching

Persona 3: Harold McNeil

Short Bio: Harold is a 67-year-old retired miner living in Grande Cache. He enjoys gardening and repairing old machinery but has limited mobility due to arthritis.

Location: Southern Alberta

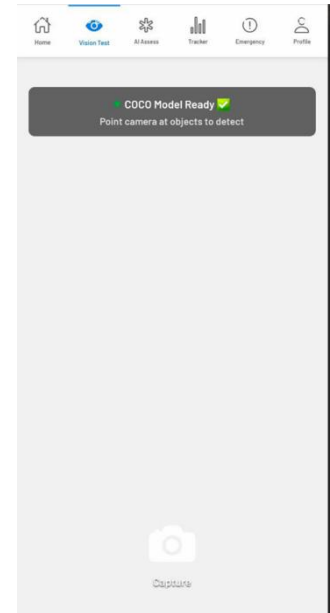
Age Range: 65+

Primary Symptoms: Cardiovascular (Chest Pressure / Fatigue)

Detailed Description: Experienced mild chest pressure over the past two days, sometimes radiating to the left arm. Also reports light sweating and fatigue. No nausea or shortness of breath. Has a history of high blood pressure but no prior cardiac events.

Observations during testing:

- Observation 1: The AI assessment response time exceeded 5 seconds and failed to generate an analysis even after three attempts.
- Observation 2: The Daily Log took over 5 seconds to load, and each entry's detailed view required about 7 seconds to open. The delay is likely due to multiple photo attachments (five per entry).
- Observation 3: The History page initially failed to display any of the logged entries. After force-closing and reopening the app, the entries appeared correctly.
- Observation 4: Loading the vision model took over 30 seconds. After the camera opened, the bottom tab bar shifted upward, overlapping with the camera view.



Persona 4: Tara Leung

Short Bio: Tara is a 37-year-old café owner from Peace River in Northern Alberta. She balances long work hours managing her business while taking care of two young children

Location: Northern Alberta

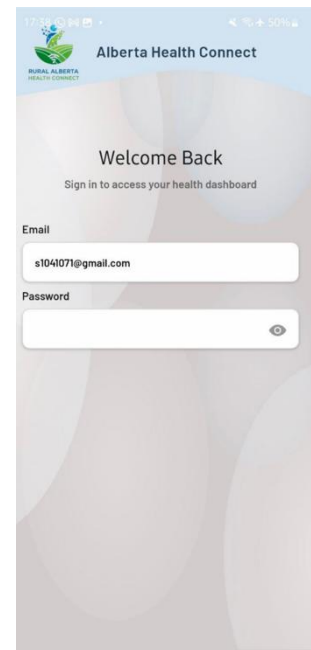
Age Range: 35-44

Primary Symptoms: Cold weather injuries

Detailed Description: Reported numbness and pale skin on fingers after a full day of outdoor work in sub-zero temperatures. The area became red and tender after warming up indoors. No open wounds, but mild tingling remains. Severity rated 4/10.

Observations during testing:

- Observation 1: The AI assessment functioned successfully this time. However, swiping back from the assessment results page returns to the severity questionnaire instead of the dashboard, which is not an ideal navigation flow.
- Observation 2: When attempting to re-login, the Submit button disappeared after opening and closing the keyboard. The button only reappeared after restarting the app.
- Observation 3: With invalid password, the loading time took over 5 seconds to show the “invalid password” alert.



Persona 5: Owen Peters

Short Bio: Owen is a 19-year-old college student from Grande Prairie in Northern Alberta. He works part-time in outdoor maintenance and often spends long shifts clearing snow and moving equipment in subzero weather.

Location: Northern Alberta (Grande Prairie Area)

Age Range: 18-24

Primary Symptoms: Trauma & Injuries

Detailed Description: Slipped on an icy surface while unloading tools, resulting in a mild sprain to his right wrist. The area became swollen and tender with limited motion. Pain rated **7/10**, worsened when lifting heavy objects. No visible bruising or open wounds. Applied ice and compression, which reduced discomfort slightly after a few hours.

Observations during testing:

- Observation 1: The app crashed immediately after registration and failed to load the landing page. The user was unable to proceed to the dashboard.
- Observation 2: AI assessment not working again

Bug Summary Table

Sequence	Bug	Description	Severity	Recommendations
1	Password visibility on login	Password field does not show typed characters during login (appears on Infinix 5G Android 13 across all 5 personas)	High	Implement proper password masking with toggle visibility option. Ensure default state is masked with an eye icon to reveal/hide.
2	Sign-up navigation issue	Sign-up button not working on first attempt; users must click "Sign In" then "Create Account" to proceed (Pixel 9 XL Pro)	Medium	Fix routing logic for sign-up flow. Ensure direct sign-up button works without requiring navigation workaround.
3	Entry details loading delay	Opening entry details takes over 5 seconds to load (multiple devices)	Medium	Optimize data retrieval and rendering. Implement loading skeleton or progress indicator. Consider caching recently viewed entries.
4	Black screen during manual log entry	Screen randomly turns black when adding manual log entry, though entry still saves (Pixel 9 XL Pro, Persona 2)	High	Debug rendering issue during log entry creation. Check for UI thread blocking or state management problems.
5	Profile information not saving	Edited profile information (medical info, allergies) does not persist after page reload (Pixel 9 XL Pro, Personas 3-5)	High	Fix data persistence layer for profile updates. Ensure proper save/commit operations and verify database writes.
6	Emergency contact validation	App allows letters in emergency phone number field (Pixel 9 XL Pro, Persona 2)	Medium	Implement input validation to accept only numeric characters for phone number fields. Add proper formatting (e.g., xxx-xxx-xxxx).
7	Date/time picker incorrect values	Selected date and time display wrong values (e.g., selecting Oct 7 shows Oct 2) - affects all Pixel 7 personas	High	Debug date picker component. Check for timezone issues, index offset errors, or state management problems.
8	App freeze on History tab	App freezes for 4-5 seconds when opening History tab (Pixel 7, multiple personas)	Medium	Optimize History page data loading. Implement pagination or lazy loading for large datasets.
9	Vision Test crash	App crashes immediately or within seconds after clicking "Start Detection" or "Vision Test" (Pixel 7 - all 5 personas)	Critical	Priority fix required. Debug camera initialization, memory allocation, and ML model loading. Check for permission handling issues and device compatibility.
10	AI ignores uploaded images	AI analysis relies only on text input, ignoring uploaded photos (Pixel 7, Persona 2)	High	Fix image processing pipeline. Verify image upload completion, encoding, and integration with AI analysis endpoint.

Sequence	Bug	Description	Severity	Recommendations
11	Delayed data load in History/Daily Log	Pages show no data for 4-5 seconds before loading entries (Pixel 7, multiple personas)	Medium	Optimize database queries. Implement progressive loading with placeholder content or loading indicators.
12	Profile data truncation	Allergies field shows truncated data (e.g., "Pe" instead of "Peanuts") or missing entirely (Pixel 7, Personas 3-4)	High	Fix character limit or field rendering issue. Verify data storage and retrieval for all profile fields.
13	Password validation message timing	Password length warning flashes too quickly during sign-up, causing user confusion (Pixel 7, Persona 4)	Low	Increase message display duration or keep validation message visible until corrected. Consider inline validation.
14	Dashboard loading delay	Dashboard takes 7-8 seconds to load after sign-up (Pixel 7, Persona 5)	Medium	Optimize initial dashboard load. Review async operations, reduce initial data fetching, implement splash screen if needed.
15	Missing location permission prompt	No permission popup when re-enabling location services (Pixel 7, most personas)	Low	Ensure proper permission request flow. While functionality works, explicit permission dialog improves UX clarity.
16	Photo upload lag	Uploading photos causes 4-5 second freeze before page updates (Pixel 7, multiple personas)	Medium	Implement asynchronous image upload with progress indicator. Compress images before upload if needed.
17	Password visible by default	Password input shows plain text without clicking eye icon - privacy concern (Samsung S23, Persona 1)	Critical	Fix password field default state to masked. Ensure consistent behavior across all password input fields.
18	Phone number formatting	Emergency contact phone number not properly formatted (Samsung S23, Persona 1)	Low	Implement auto-formatting for phone numbers (e.g., (xxx) xxx-xxxx format).
19	Auto-navigation crash	App crashes 10 seconds after auto-navigating from registration to dashboard if no user action taken (Samsung S23, Persona 1)	High	Debug auto-navigation timeout logic. Remove or fix automatic redirect, or ensure proper state initialization.
20	Visual lag/ghosting during tab transitions	Noticeable "ghosting" effects when switching between Daily Log and History tabs (Samsung S23, Persona 1)	Low	Optimize tab transition animations. Consider reducing animation complexity or implementing smoother transitions.
21	Vision Detection camera crash	App crashes after tapping "Take Photo" - camera stuck on	Critical	Priority fix. Debug camera initialization and permissions. Test on multiple Samsung devices for compatibility.

Sequence	Bug	Description	Severity	Recommendations
		continuous loading (Samsung S23, Persona 1)		
22	Inaccurate clinic distance	Displayed distance incorrect (shows 0.5 km when actual is ~13 km) (Samsung S23, Persona 1)	Medium	Fix distance calculation algorithm. Verify geolocation API integration and distance formula implementation.
23	Limited clinic results	Only one clinic shown in emergency results (Samsung S23, Personas 1-2)	Medium	Expand search radius or adjust API query parameters. Ensure proper handling of multiple results.
24	Incorrect clinic type	Non-medical facility (homeless shelter) shown as clinic option (Samsung S23, Persona 2)	High	Implement proper filtering for medical facility types. Validate data source and improve search query specificity.
25	Registration crash on name field	App crashes when entering last name during registration (Samsung S23, Persona 2)	Critical	Debug input validation and state management for registration form. Check for character encoding or length issues.
26	AI assessment performance degradation	AI response time increases to 5+ seconds after extended use (Samsung S23, Persona 2)	Medium	Investigate memory leaks or resource accumulation. Implement proper cleanup after AI operations.
27	AI fails to generate analysis	AI fails to produce detailed analysis even after multiple attempts (Samsung S23, Personas 2-3)	Critical	Debug AI service connectivity, timeout settings, and error handling. Implement retry logic with user feedback.
28	Performance degradation over time	App slows significantly with stacked navigation; History entry takes 5+ seconds (Samsung S23, Persona 2)	High	Implement proper navigation stack management. Clear unused screens and optimize memory usage.
29	Photo retrieval failure	Saved photos not retrieved properly from History (Samsung S23, Persona 2)	High	Fix image storage and retrieval pipeline. Verify file paths, permissions, and cache management.
30	Extended AI loading time	AI assessment exceeds 5 seconds and times out (Samsung S23, Persona 3)	High	Optimize AI service calls. Implement timeout handling with retry option and user notification.
31	Slow Daily Log with multiple photos	Daily Log takes 7+ seconds to load entries with multiple photos (5 per entry) (Samsung S23, Persona 3)	Medium	Implement image thumbnails and lazy loading. Consider limiting photos per entry or paginating results.
32	History page fails to display	History shows no entries until app force-closed and reopened (Samsung S23, Persona 3)	High	Fix data synchronization between log creation and history display. Ensure proper state updates.

Sequence	Bug	Description	Severity	Recommendations
33	Vision model loading delay	Loading vision model takes 30+ seconds (Samsung S23, Persona 3)	High	Optimize ML model initialization. Consider model compression or progressive loading strategy.
34	Camera UI overlap	Bottom tab bar shifts upward, overlapping camera view (Samsung S23, Persona 3)	Medium	Fix layout constraints for camera screen. Ensure proper z-index and view hierarchy management.
35	Poor navigation flow	Swiping back from AI results returns to severity questionnaire instead of dashboard (Samsung S23, Persona 4)	Medium	Redesign navigation stack. Implement proper back button behavior for improved UX flow.
36	Submit button disappears	Submit button vanishes after keyboard interaction, requiring app restart (Samsung S23, Persona 4)	High	Fix keyboard event handling and button visibility logic. Ensure UI elements persist through keyboard show/hide.
37	Slow invalid password response	Takes 5+ seconds to show invalid password alert (Samsung S23, Persona 4)	Low	Optimize authentication validation. Reduce unnecessary processing before showing error message.
38	Post-registration crash	App crashes immediately after registration, fails to load landing page/dashboard (Samsung S23, Persona 5)	Critical	Priority fix. Debug post-registration navigation and initial data loading. Implement proper error handling.
39	AI assessment failure	AI assessment not functioning (Samsung S23, Persona 5)	Critical	Related to Bug #27 and #38. Requires comprehensive investigation of AI service integration and error states.

Priority Recommendations

Critical Issues (Immediate Action Required):

- **Bugs 9, 17, 21, 25, 27, 38, 39:** Vision Test crashes, password visibility, registration crashes, and AI failures must be resolved before production release.

High Priority (Next Sprint):

- **Bugs 1, 4, 5, 7, 10, 12, 19, 24, 28-33, 36:** Core functionality issues affecting user experience and data integrity.

Medium Priority (Following Sprint):

- **Bugs 2, 3, 6, 8, 11, 14, 16, 22, 23, 26, 31, 34, 35:** Performance optimizations and UX improvements.

Low Priority (Backlog):

- **Bugs 13, 15, 18, 20, 37:** Minor UX refinements that don't block core functionality.