

WeatherEase Prototype v1 – Integration & Testing Checklist

Project Version: v1

Testers: Tajra, Ehab & Mike

Date: Nov 10-16, 2025

Status options:

Passed

All works correctly
or as intended.

Partially passed

Works, but room
for improvements.

In progress

Needs more
work done.

Failed

Failed to
execute.

1. Integration Checks (Mike)

Task	Status	Notes
Ensure script.js loads and fetches weather without errors	<input type="checkbox"/> Passed	Weather information was correctly displayed.
Ensure voice-control.js initializes without errors	<input type="checkbox"/> Passed	Takes voice commands and goes to correct selected prompt.
Ensure settings.js correctly loads saved preferences	<input type="checkbox"/> Passed	Tested out multiple preferences, all saved and worked.
Ensure theme.js applies dark mode, big text, high contrast correctly	<input type="checkbox"/> Passed	Works correctly.
Confirm service-worker.js caches all assets successfully	<input type="checkbox"/> Partially passed	Caches previously viewed content correctly, but new requests (e.g., new API calls) are not available offline.
Verify that all modules work together without console errors	<input type="checkbox"/> Passed	

2. Weather Functionality (Ehab)

Task	Status	Notes
Search for a city →	<input type="checkbox"/> Partially passed	Shows data corresponding

Task	Status	Notes
displays current weather		to the entered city, but sometimes displays a neighborhood or nearby area instead of the exact city center
Geolocation button → fetches local weather	<input type="checkbox"/> Passed	Fetches all correct information.
5-day forecast displays correctly	<input type="checkbox"/> Passed	Shows days, temperature and condition correctly.
Forecast emojis match conditions (sun, rain, snow, cloud, mist)	<input type="checkbox"/> Passed	Emojis correspond to the weather conditions.
Offline mode → cached weather data is displayed	<input type="checkbox"/> Passed	Cached weather data is displayed correctly when offline.
Units toggle (metric/imperial) updates temperatures correctly	<input type="checkbox"/> Passed	Units converted correctly and updated.

3. Voice & Text-to-Speech (Tajra)

Task	Status	Notes
Start voice recognition → prompts available options	<input type="checkbox"/> Passed	Prompt options available.
Voice commands: “1 / weather” → navigates to Weather page	<input type="checkbox"/> Passed	
Voice commands: “2 / settings” → navigates to Settings page	<input type="checkbox"/> Passed	
Voice commands: “9 / exit” → navigates to Exit page	<input type="checkbox"/> Passed	
Speech rate, pitch, and voice selection changes are applied	<input type="checkbox"/> Passed	Works correctly with any preference selection.
Voice preview plays correctly	<input type="checkbox"/> Passed	Any selected preference will be shown with voice preview.
Voice alerts trigger on offline/online events	<input type="checkbox"/> Passed	Voice alerts still work offline.

4. Accessibility & Settings (Mike)

Task	Status	Notes
Dark mode toggle → updates background and nav colors	<input type="checkbox"/> Passed	
Big text toggle → increases font size	<input type="checkbox"/> Passed	
High contrast toggle → changes contrast filter	<input type="checkbox"/> Passed	
Settings persist across page reloads	<input type="checkbox"/> Passed	The settings persist across page reloads correctly.
Units selection persists and updates correctly	<input type="checkbox"/> Passed	Correct.

5. Chat / AI Assistant (Tajra)

Task	Status	Notes
User message submission works	<input type="checkbox"/> Passed	Users can submit any message.
AI reply appears in chat log	<input type="checkbox"/> In progress	There is no AI API yet, hence it will keep responding with a Sorry, I could not answer that right now.
Scroll auto-follows new messages	<input type="checkbox"/> Passed	Any new prompt and response will result in auto-follow
Chat formatting (user vs bot) correct	<input type="checkbox"/> Passed	Messages display correctly for user and bot, alignment and colors are fine.

6. Deployment & Offline Testing (Ehab)

Task	Status	Notes
Site deployed to GitHub Pages	<input type="checkbox"/> Passed	The prototype is live and accessible.
Offline testing: reload while offline → app shell loads	<input type="checkbox"/> Passed	The app shell loads correctly offline.
Offline caching: last weather data appears	<input type="checkbox"/> Passed	Cached weather data displays as expected.
Online status restored → alerts & TTS work	<input type="checkbox"/> In progress	The feature to appear online needs to be added, but TTS works correctly.

Additional Notes / Bugs

The AI Chat Bot was a quick, experimental idea that wasn't part of the original project plan. It was something new and interesting we wanted to try out. If time allows, we would like to explore it to its full potential so it works smoothly, but if not, that's perfectly fine since it wasn't part of our main project idea plan.