

WeatherEase Prototype v2 – Final Integration & Testing Checklist Project

Version: v2

Testers: Tajra, Ehab & Mike

Date: 12/5/2025

Status options:

Passed	Partially passed	In progress	Failed
All works correctly or as intended.	Works, but room for improvements.	Needs more work done.	Failed to execute.

1. Integration Checks (Mike)

Task	Status	Notes
All JS modules load without console errors	<input type="checkbox"/> Passed	All scripts (script.js, voice-control.js, voice-control-weather.js, theme.js) load correctly.
Weather API fetches correctly across all pages	<input type="checkbox"/> Passed	Tested on home, weather page, and when switching units.
Service worker registers and updates properly	<input type="checkbox"/> Passed	SW installs and updates cache; offline loads correctly.
PWA install prompt appears on supported devices	<input type="checkbox"/> Passed	Install button displays
Manifest.json validated + icons load	<input type="checkbox"/> Passed	Verified across IOS devices

2. Weather Functionality (Ehab)

Task	Status	Notes
City search returns correct weather	<input type="checkbox"/> Passed	The city search works and shows the right weather.
Geolocation fetches accurate local weather	<input type="checkbox"/> Passed	Use my location loads the correct local weather easily.
5-day forecast displays correct values	<input type="checkbox"/> Passed	The 5-day forecast shows all the right info.

Weather emojis match all major conditions	<input type="checkbox"/> Passed	Emojis match the weather conditions perfectly.
Unit toggle (C/F) updates all readings	<input type="checkbox"/> Passed	Switching between Celsius and Fahrenheit works correctly.

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

Task	Status	Notes
Voice recognition activates only when enabled	<input type="checkbox"/> Passed	Voice recognition only turns on when I enabled.
No repetitive microphone permission requests	<input type="checkbox"/> Passed	The app doesn't ask for mic permission more than once.
Weather page voice commands respond correctly	<input type="checkbox"/> Passed	Voice commands on the weather page work as expected.
Home page voice navigation functions	<input type="checkbox"/> Passed	Navigating the home page with voice commands is correct.
Speech rate/pitch/voice settings apply properly	<input type="checkbox"/> Passed	Changes to speech rate, pitch, and voice settings take effect correctly.

4. Accessibility & Settings (Mike)

Task	Status	Notes
Dark mode applies across pages	<input type="checkbox"/> Passed	
Big text mode updates UI text sizes	<input type="checkbox"/> Passed	
High contrast mode increases visibility	<input type="checkbox"/> Passed	
All settings persist with	<input type="checkbox"/> Passed	Settings are saved and used

localStorage across all pages.

5. Chat Weather Assistant (Tajra)

Task	Status	Notes
User input submits correctly	<input type="checkbox"/> Passed	User input goes through without any issues. And if any, prompts ensure navigation.
Bot replies with structured weather sentences	<input type="checkbox"/> Passed	The bot gives weather replies in clear sentences.
Chat scroll auto-follows messages	<input type="checkbox"/> Passed	The chat automatically scrolls to new messages.
Chat UI formatting stays consistent	<input type="checkbox"/> Passed	The chat layout stays neat and consistent.

6. Deployment & Offline Testing (Ehab)

Task	Status	Notes
Site loads fully on GitHub Pages	<input type="checkbox"/> Passed	The site loads completely on GitHub Pages.
Offline reload loads app shell	<input type="checkbox"/> Passed	Reloading offline still shows the main app structure.
Cached weather data displays offline	<input type="checkbox"/> Passed	Weather data shows correctly even when offline
Online status detection + TTS alerts work	<input type="checkbox"/> Passed	Online status and voice alerts work properly.

Additional Notes / Bugs

- AI Chat Bot replaced with a simplified weather-response assistant.
- Voice permissions no longer spam; recognition runs only when manually enabled.
- PWA install button now appears properly.