TECHG1RL Website Testing & Validation Report

1. Functionality Testing

Tested Action	Commit ID	Expected	Actual	Result	Notes
All page links work (index.html)	Nav links core	Navigate to 4 pages	All linked to pages now exist and are loaded	Pass	Pages absent prior to testing are now being included
Image lightbox in gallery.html	gallery-lightbox	Opens modal window showing description	Fully operational	Pass	Smooth to interact with GLightbox.
WaveSurfer audio player on manifesto.html	manifesto-audio	Visualizer shows waveform and plays	Works as expected	Pass	XP-style decoration is a nice touch.
Video preview (Manifesto page)	manifesto-video	Upload and preview work	Fully operational	Pass	The default preview is hidden until the file gets uploaded.
Binary rain animation (User archive)	canvas-animation	Background animation shows	Visual glitch effect working	Pass	Good use of <canvas>.
Contact form (UI & file input)	form-ui	Custom file upload + input fields	Styled correctly, submits locally	Partial	Backend is missing (can use Formspree).
Custom glitch hover/ animation styles	hover-effects	Visual feedback on hover	Works on headings, buttons, gallery items	Pass	It is lag-free on modern devices.
Mobile responsiveness	responsive-check	Layout adjusts	Layout breaks slightly on smaller screens	Partial	Add media queries on user-row, manifesto-container, gallery-grid.

2. Code Validation

Validation of HTML (according to W3C Validator):

- index.html: Valid

- gallery.html: Warnings (Inline styles, repetitive alt text)

- manifesto.html: Valid (Empty <div>s are OK)

- contact.html: Valid

- userarchive.html: Warnings (Semantic structure could be improved)

CSS Validation (W3C CSS Validator):

- style.css: Valid (Consider combining styles or using variables)

JavaScript:

- All scripts functional

- Use let/const consistently

- Recommend modularizing into script.js files

- 3. Existing Problems and Solutions

Issue	Cause	Suggested Fix
Contact form has no backend	No handler	Keep away from inline stuff and instead use Form and Netlify Forms alternatively.
Layout overflow on small screens	No media queries	Add media quads.
Inline CSS and JS	Quick setup	Move them out of inline stuff
Repetitive alt text	Generic descriptions	Make it accessible with unique descriptions
No upload validations	Missing attributes	Use accept='' and JavaScript checks for size/type.

4. Suggestions for the Future

- Add form backend support.

- Fix SEO meta and Open Graph tags.

- Add Dark Mode toggle.

- Fix accessibility: ARIA roles, contrast, keyboard navigation.

- Add 404.html.

- Animate page transitions.

- Modularize CSS and JS per page.