**Testing and Deep Understanding**

**Testing**

Devices used: Windows personal computer (Chrome, Edge), Android phone (Chrome Mobile).

Browsers tested: Chrome, Edge.

Features tested: 3D Model, button interactivity, light control, background color change, animation triggering, page navigation.

Issues found:

There are errors in the paths of some buttons, resulting in some buttons being unable to enter the corresponding pages.

Some model animations are too slow.

Due to the size and position of the model, the camera position needs to be adjusted to better display it.

When playing animations, the sound and animation are out of sync.

Some code is repeated.

Final result: The webpage can run on major devices and browsers. All interactions and effects work and are smooth.

**Deep Understanding**

In addition to the basic code, I also used GSAP, ScrollReveal, and Typed.js for some animation effects, which made the web page visually better and improved the user experience.

By referring to some models and pictures, and watching related videos(detailed content is on the Reference page), I made two relatively complex gun 3D models and made animations through keyframes.

Dynamic scene background color change and light control via JavaScript event handlers.