

# Simun – Supplementary

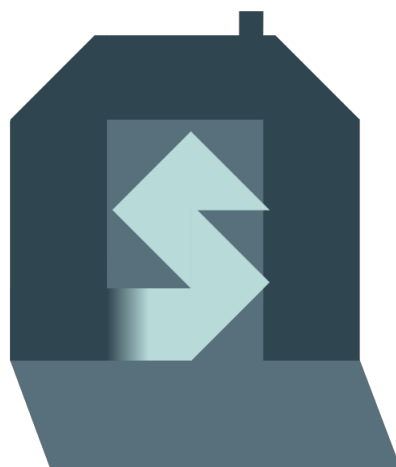
## Table Rankings

Category	Rank	Where to Find/Why
<b>HTML</b>	<b>A</b>	Pages are delivered using pug (jade) as templates, while following xHTML rules. There are 7 different page templates.
<b>CSS</b>	<b>A</b>	CSS is compiled using node-sass, allowing nested CSS styles. A lot of CSS is used, including CSS keyframe animations. There are no style tags or style attributes in the HTML.
<b>JS</b>	<b>A</b>	Client side javascript in Simun is used for changing appearance of objects (e.g. resizing outbox image selector size or opening snippet-selected divider in the inbox), requesting data from the server (see the tools.js script in model), or updating the page depending on the result of that variables request (see setting snippets active in the inbox).
<b>PNG</b>	<b>A</b>	Gimp was used for creating and editing images. Many different tools were used for the original site, which attempted to have a pseudo realistic house as the setting, with mail arriving in the postbox. See old site design (p2) for reference. Some of these tools include magnetic lasso, handling layers, airbrushing (and original artwork, although it is very ugly).
<b>SVG</b>	<b>A</b>	Inkscape was used for creating SVGs. All designs are custom made, and work well on the web page as they use block colours and paths. Originally methods such as patterns and gradients were used, such as in the original simun logo, but were stopped being used as they did not suit the final design theme.
<b>Server</b>	<b>A</b>	The server is hosted live on <a href="https://simun.co.uk">simun.co.uk</a> on a virtual machine provided by Microsoft Azure. HTTPS is used, which has prior dependencies, and pages are loaded differently depending on browser (mainly due to css though). There is unit testing using modules mocha and chai, which tests that server and database logic and authentication works as expected.
<b>Database</b>	<b>A</b>	The database uses SQLite3 to interface with the stored .db file. There is a significant amount of data to handle, and effort is made to reduce this, for example by storing images in imgur and linking their url rather than storing them directly in the database. The full database schema can be seen in the main report.

Category	Rank	Where to Find/Why
<b>Dynamic Pages</b>	<b>A</b>	Pages are delivered populated with content, and can then retrieve new content from the server using client side scripts. Node.js and express.js are used extensively for delivering pages, managing cookies and negotiating content.



Original Simun Appearance



Original Simun Logo