

Evaluation

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How well the solution works

The solution meets the basic requirements of the task and most of the additional ones I implemented. The solution allows users to register accounts, log in and book appointments and cancel appointments. The solution is accessible and easy for users to use; creating a stress-free booking experience for the user.

Chosen assets

I chose assets that emphasise the green and good side of the services rolsa technologies offer. Promoting green energy to their customer base. This can help reduce users stress about going green and helping the environment. This helps them feel more in control of what energy they are using, reduce their energy costs and feel better about themselves.

The assets chosen were chosen to compliment the green primary colour of the webpage to give the website a healthy, green and energetic look to pull in the user to use the research the page provides.

Instead of writing potentially false information, I chose to use lorem ipsum for filler text where the information that rolsa technologies wants information about green energy. This was done to save development time and so that rolsa can write their own information to put their that they have signed off, agree with and want on their page. This ensures that the information is correct, relevant and approved by rolsa technologies making them feel more in control over their own webpage.

Validity and reliability

I left the sourcing of information during development to rolsa to verify the information they are displaying to users. During the research stage of my proposal, I tried to find verified sources and included them with my research.

The website has proved reliable during development with the limited issues that have occurred during development and the strong database backing it, keeping it secure.

Legal and ethical implications of chosen assets

When choosing assets its important to ensure that you can legally use them and that they are accessible to the users using the system. Not following the correct legal guidelines (eg copyright) when selecting assets can cause large fines or being taken to court, this is damaging to a business.

For the images, I chose stock images as they can very easily be purchased or replaced with images chosen by rolsa technologies, depending on what works for them. This ensures that rolsa is given a nice visual for their prototype and options for what they want to do for their final product.

The colours chosen for a website are the first thing a user sees when they load into a webpage, the colours chosen help emphasise the vibes of the webpage eg professional may use boring colours like white and black, where as a website for kids will be bright and colourful to attract them.

For my prototype, I chose green as my primary colour to give an eco-friendly and energetic look to the user making them feel comfortable and good about themselves because green is a positive colour.

On the other hand, green is a very common colour to be colour blind too. To combat this, I ensured that all areas had clear text so those who cannot see the green, I also ensured that the light green had dark text to make it more readable for those with dyslexia. This makes the website look good which attracts users.

Functional and non-functional requirements

Functional requirements	Non-functional requirements
I chose not to add my own research onto the website as I cannot research to a high standard like rolsa can so I did not meet the requirements of users being able to view information about green energy	Passwords are hashed in the database with sha256 to keep them secure and safe against hackers.
A user has the capability to cancel an appointment but due to a lack of time, the altering of appointments is non-functional. If I had more time then that could be corrected.	Pages load within milliseconds, keeping users interests on a page for long periods of time to ensure they don't turn to alternative services. This is especially important in a world where short form media is rising in popularity.
Users are capable of viewing their appointments and are taken to that page after booking an appointment so they know its there and understand how its formatted.	The system is simple for a user to understand so they won't be stressed out or frustrated when booking consultations and installations.
I ensured that my design and development are accessible to all people by meeting the WCAG guidelines, making it more accessible to a wider customer base and designed to be easy to understand and use. This ensures that everyone can browse and purchase rolsa's services.	I failed to make sure that system can run on a mobile device due to a lack of css knowledge and a lack of time to complete one.
	The system is adaptable to change and has a lot of room to grow from expected features (settings, carbon calculator) and unexpected features that may be added by other developers.

	I failed to meet the requirement of proper encryption due to limitations in my development environment.
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Key performance indicators

I visited my prototype a lot on the web, increasing the amount of users by 1 and there was an increased amount of user accounts created because I made some user accounts.

User acceptance criteria

I met all of the user acceptance criteria that I had set.

I ensured that my website was accessible and met the WCAG guidelines. There are alt tags on all the images, clear indications what input boxes are for to help people understand where to put data and to help screen readers read it out to users who may be illiterate, blind etc.

The pages have fast loading times because the code is organised and efficient. This helps the code run in milliseconds. Ensuring that users stay interested and don't look elsewhere because the page takes too long to load.

The only criteria I was unable to meet was altering appointments. I didn't have the time during development to fix the issue with it. For future development that could be fixed, allowing the user more control over their appointment. They are able to view their bookings though, this helps remind them of when and why their appointment is.

Future Development

If I had a longer amount of time to develop my system, I would fix the errors (eg no audit on login, unable to alter appointments) to ensure that all the current system works before moving on to developing additional features such as:

- a full setting page that allows users to change details about their accounts, view audits etc to ensure that data is kept up to date as per the data protection act 2018
- Ensuring that users passwords are being validated by requiring guidelines such as a number symbol etc as well as having users confirm their password to ensure is correct and as the user intended.
- Ensure that users have to book a consultation before an installation to reduce stress of the workers and ensuring that the service they want is actually plausible before hand.
- Make it impossible for users to book appointments in the past so they can't abuse that insecurity in the system.
- Add a staff interface where they can view their bookings, what they need and where they need to go for it. This will make workers jobs easier and more efficient

- I would improve the css to make the webpage look more professional and include a mobile design for mobile users since most customers will browse the internet on a mobile device such as a phone.