

Project (First Part)

Individual report

TECAA

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Revision History

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2	2024-04-11	Ricardo Mas- careñas	Document initialization

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1 Introduction

In this document, we present the documentation for our project aimed at aiding color blind individuals and providing users with tools to customize and deploy their websites effectively. The project comprises two main components: a hands-on tutorial and the creation of a documentation website. The hands-on tutorial focuses on implementing a color picker feature on websites to enhance accessibility for color blind users. We provide step-by-step instructions, utilizing technologies such as Hugo, Go, and GitHub, to guide users through the implementation process. The documentation website offers comprehensive guidance on various aspects of website customization and deployment. It includes sections on theme selection, website structure, searching functionality, deployment procedures, and work distribution among team members. The main goal is to use different technologies and concepts acquired in Tecnologias de Apoio à Aprendizagem, to create a website that is easily accessible and as a good performance accessibility wise. Through this project, we aim to empower users to create more accessible and customizable websites, ultimately enhancing the overall user experience for all individuals.

2 Hands-on

Our hands-on will be centered around helping color blind people. We will be showing people how to implement a color picker on their website for color blind people to choose a color where they can clearly see the content of the website. This feature can also be applied to any website that possesses a image-less background.

2.1 Technologies

To create the hands-on, a word document was created that explained the whole process of implementing the feature. From importing an existing project to implementing the wanted feature on the project's initial page.

During the hands-on, the student should import the project from a git repository and edit it, adding the necessary lines of code for it to work properly. To access the git repository the students should interact with GitHub and for editing it, we personally used Visual Studio Code editor. They should also have Hugo and Go installed which would require the use of Chocolatey.

3 Documentation site

The documentation website will have four different pages, each specifying on a different subject that helps the user work with the provided them and adding some customization of their own.

3.1 Theme selection

The chosen theme will be Lotus from the Hugo templates. Lotus provides a solid template that allows us to teach and show the content with ease.

Our website will be about helping people customize and deploy their websites. It will also teach the users on how to improve their accessibility a little by teaching them how to allow for the user to also customize the website on their own, according to their will.

3.2 Structure/pages

There will be 4 tabs on the website, About, Color-Picking, Deployment and Setup. The About tab will have an accessibility statement and the information of the developers. The Color-Picking will teach on how to implement a color-picking option on the website to improve accessibility. Deployment will teach on how to deploy the website from that template. The Setup will show how to setup the project and how to get it running before anything else.

3.3 Searching

blabla

3.4 Deployment

blabla

3.5 Improving Web accessibility

In this section, we explore the enhancements made to our website to improve web accessibility. We focus on the transition from a webpage with limited accessibility concerns to one that adheres to the latest WCAG 2.2 standards. This transformation involved a meticulous evaluation of existing design elements and functionalities, followed by targeted improvements to ensure inclusivity and usability for all users, including those with disabilities. We outline the specific enhancements implemented and discuss how these changes contribute to achieving a higher level of accessibility, as per the WCAG 2.2 guidelines. Through this process, we aim to create a more inclusive online experience, where every user can navigate and interact with our website effectively, regardless of their abilities or limitations.

3.6 GQM

In this section, we delve into the Goal-Question-Metric (GQM) approach, a structured method for defining and assessing goals, questions, and metrics to ensure the effectiveness and success of our website project. GQM provides a framework for aligning our objectives with concrete measures, enabling us to evaluate the achievement of our goals and make informed decisions throughout the development and deployment process. Through careful analysis and application of GQM, we aim to establish clear objectives, formulate relevant questions, and identify appropriate metrics to evaluate the performance and impact of our website in meeting user needs and organizational objectives.

4 Conclusion

Blablabla

References