

Project:

STUDY CONTROL SYSTEM FOR UNIVERSITIES

DIPLOMADA#1100266

MILESTONE 2 COMPLIANCE REPORT

Usability and accessibility testing of web portal

1. GENERAL INFORMATION:

- Name of the Web Portal: DIPLOMADA
- Web Portal URL: [http://192.168.0.11:8000/]
- Test Date: Wednesday, May 8, 2024
- Objective of the Tests: Document strengths and improvements in usability and accessibility of the MVP of the Study Control System for Universities DIPLOMADA.

2. USABILITY TESTS:

- User Interface Evaluation: Considering that the deliverables in this project are represented by a Minimum Viable Product (MVP), we have documented many improvements applicable today in the design and presentation of web systems that we will be implementing in future stages.

- Ease of Navigation: 3 out of a score of 1 to 5
- Clarity of Information: 4 score from 1 to 5
- Design and Presentation: 2 score from 1 to 5

- Functionality Tests:

- Main Features:

Module 1 User Administration:

- User authentication: allows you to verify if the user is registered in the system, meeting all the required requirements.
- User Registration: enables an interface for new users to register in the system, enabling controls for uploading personal data, user name, passwords and acceptance or not of Terms and Conditions. (Notification via email to the User).
- Password recovery: offers password recovery or change in case the user has forgotten it, sends verification to the user's main email.

Module 2 upload Documents (Title and certified notes):

- Uploading Documents to the System: presents an interface to upload documentation for the user who wishes to enroll in third and fourth level studies.
- Document verification (interface and approval or rejection process): Enables interface only for administrator users to review the authentication of documentation uploaded by the user.

Module 3 Connect wallet:

- Wallet connection request through an API: Allows the user, by entering their public key, to connect to a Cardano wallet, enabling the possibility of querying transactions and executing sending operations between the system website and the Cardano blockchain.

Module 5 Payment Registration:

- Record of the payment made in the wallet (report of the hash code that indicates the payment): allows the user to make transfers, shipments or payments in ADA, from their connected wallet, it also requests an approval signature to execute the transaction.
- Verify the hash: notification via email to the applicant.

- Test Results: All tests were Successful.

3. ACCESSIBILITY TESTS:

- Compliance with Web Accessibility Principles: Level A.

Perceptible: Both the contents and the interface of DIPLOMADA are perceived by all its users and, therefore, all the components of the interface are distinguished. To do this, alternatives to non-textual content are offered, such as images and icons. In later versions, content must be adapted to different shapes, high zooms, screen orientations, etc. Finally, our design is distinguishable and separates the background from the foreground, bringing everything related to colors and contrasts into play, for example:



Operable: In DIPLOMADA web the user can interact with the interface without any problem, that is, all visitors can interact. For this reason it is manageable by keyboard for users without a mouse, a time is not established to interact but it is easily navigable.

Understandable: Both the information and the operation of the interface are understandable, its content is easy to read and understand, with predictable pages and help is offered when entering data, there is always a visible instruction in the forms, however no help is presented to the user. user showing an example of a valid format to fill in that content.

Robust: The content of DIPLOMADA is secure and well-formed enough to be interpreted by the vast majority of users. This encompasses everything that affects technology, including assistive products such as screen readers, which are the most used by users with disabilities.

4. FINDINGS AND RECOMMENDATIONS:

- Usability Findings:
- Strengths:

1. Ease of navigation: Users can move around the page intuitively and without confusion.
2. Clarity in the presentation of information: The website presents the information in a clear and concise manner, avoiding clutter or overload of content.
3. Performance efficiency: Page loading speed and site responsiveness are critical aspects of usability.

4. Responsive Design: The website design adapts to different devices and screen sizes to ensure a consistent experience for all users.

- Improvement areas:

1. Ease of use in different browsers: It is important to check that the website works correctly in different popular web browsers, such as Chrome, Firefox, Safari, etc.

2. User feedback: Collecting comments and opinions from users about their experience on the website is essential to identify areas for improvement.

- Accessibility Findings:

- Strengths:

1. Contrast and legibility: A good contrast between the text and the background is guaranteed, as well as using legible fonts and appropriate sizes, to facilitate reading for users with visual disabilities or vision problems.

2. Navigation and keyboard: The website is completely accessible through the use of the keyboard, allowing users to navigate the site without depending exclusively on the mouse.

3. Documentation and training: Documentation and training were provided to developers and designers on best practices in web accessibility to ensure they are taken into account from the beginning of development.

- Improvement areas:

1. Compliance with accessibility standards: It is essential to ensure that the website complies with web accessibility guidelines, such as those established by the W3C in the Web Content Accessibility Guidelines (WCAG).

2. Use of appropriate tags: It is important to use appropriate HTML tags to facilitate navigation and understanding of the web page by visually impaired users who use screen readers.

3. Textual Alternatives: Provide alternative descriptions for images, videos, and other multimedia elements for visually impaired users who rely on screen readers.

4. Testing with users with disabilities: Conduct accessibility testing with users with disabilities to identify potential barriers and improve the user experience for all users.

5. CONCLUSIONS:

The results of usability and accessibility tests on a website MVP are essential to identify possible problems and areas for improvement in the user experience. By analyzing these results, informed decisions can be made to optimize the accessibility and usability of the website, which in turn will improve the experience of all users, including those with disabilities.

It is important to address accessibility and usability findings proactively, implementing changes and improvements to website design and development to ensure it meets web accessibility standards and provides an optimal experience for all users.

By prioritizing accessibility and usability from the beginning of the development process, you can create an inclusive and accessible website that meets the needs and expectations of all users, contributing to a more equitable and satisfying online experience for all.