Dear Intern

Interim project report is an inherent component of your internship. We are enclosing a reference table of content for the interim project report.

The key objective of this report is for you to capture how far you have got in completing the internship work against milestones expected to be achieved within a specific duration and seek the mentor’s feedback. Depending on the internship project and your progress (IT/Non-IT, Technical/Business Domain), you may choose to include or exclude or rename sections or leave some sections blank from the table of content mentioned below. You can also add additional sections. You can refer the project presentation to view the milestones related to your internship project. Please populate milestone# (1 / 2 / 3) and the milestone description in the interim project report based on the milestone for which you are submitting the interim project report.

You can refer the project presentation to view the milestones related to your internship project.

|  |  |
| --- | --- |
| Internship Project Title | Create a CAPTCHA Service to Secure a Simple Web-based Application |
| Name of the Company |  |
| Name of the Industry Mentor |  |
| Name of the Institute | MIT ADT UNIVERSITY -- SCHOOL OF COMPUTING |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Start Date | End Date | | Total Effort (hrs.) | | Project Environment | Tools used |
| 03/03/2023 | 11/03/2023 | | 10 | | Vs code | Html CSS |
| Milestone # | 2 | Milestone: | | Done with how to develop and implementation. | | |

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* Acknowledgements

We express my profound thanks to my Guide Prof. Rohini Bhosale for her expert guidance, encouragement and inspiration during this project work. I would like to thank Prof. Kanchan Katake, Project Coordinator, and Prof. Rohini Bhosale, Project Guide Department of Information Technology for extending all support during the execution of the project work. I sincerely thank to Prof. Dr. Rekha Sugandhi, Head, Department of Information Technology, MIT School of Computing, MIT-ADT University, Pune, for providing necessary facilities in completing the project and for providing the facilities to carry out my project work. I am also thanking all the faculty members in the Department for their support and advice.

* Objective

The main purpose of a CAPTCHA Service to Secure a Simple Web-based Application is to validate authentic users on the website so that there is no negative impact on the website. CAPTCHAs can prevent bots from spamming the review section with fictitious remarks.

* Internship Activities

Step1: Adding some basic HTML Code

Step2: Adding CSS Code

Step3: Adding JavaScript Code

* Approach / Methodology

A captcha is a tool for determining whether or not a user is human. A captcha is made by combining letters and numbers. It demonstrates that the individual trying to use the platform is a legitimate human being. Using HTML, CSS (bootstrap), and JavaScript. we will build a captcha verification in this internship in web application.

You can Secure your website with CAPTCHA validation. Mainly CAPTCHA is used for login forms, registration forms, and contact forms and how can easily implement CAPTCHA with HTML, CSS, and JavaScript.

This project will teach you the basics of bootstrap, which we’ll use to add styling to our Captcha Verification, and JavaScript, which we’ll use to add functionality for matching the images in the captcha Validation.

The project is now finished, we have completed our Captcha using HMTL ,CSS and Javascript. Now look at the live preview.

* Challenges & Opportunities

Advantages:

1. Increase Security.

2. Reduces Spam.

3. Makes online activity safer.

Disadvantages:

1. Fails in the browser.

2. Time-consuming.

3. Sometimes difficult to validate.

* Risk Vs Reward

Not easily accessed or hacked by someone

* Outcome / Conclusion

We have seen that by distinguishing between humans and computers, CAPTCHAs offer protection against automated attacks on systems and applications. The criterion for success of a text-based CAPTCHA are its robustness and usability.

* Enhancement Scope

The security level of CAPTCHA can be enhanced in future by turning it more intellectual and based on artificial intelligence problem which require mental ability to solve the CAPTCHA.

* Link to code and executable file

https://github.com/luharuka/TCS-ION-45-