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 | TCS iON RIO- 45: Create a CAPTCHA Service to Secure a Simple Web-based Application |
| Name of the Company | TCS iON |
| Name of the Industry Mentor | Niteen Gokhale |
| Name of the Institute | PrepInsta Technologies Pvt. Ltd. |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Start Date | End Date | | Total Effort (hrs.) | | Project Environment | Tools used |
| 17/09/2022 | 26/09/2022 | | 45 | | Eclipse IDE, windows | Java, HTML, CSS, JavaScript |
| Milestone # |  | Milestone: | |  | | |

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* Acknowledgements :

I am highly indebted to TCS iON for their guidance and constant supervision as well as for providing necessary information regarding the project & also for their support in completing the project. I would like to express my gratitude towards my parents and my academic mentor, for their kind co-operation and encouragement which help me in completion of this project. I would like to express my special gratitude and thanks to my industry mentor for giving me such attention and time.

* Objective :

To develop a CAPTCHA service that can secure a web application

* Introduction / Description of Internship :

A CAPTCHA is a random sequence of letters that appears as a distorted image and a text-box for users to provide their best guess of sequences. Recognition of the distorted sequence requires human abilities . Correct recognition indicated that the user is a human and not a bot. In bsence of CAPTCHA bots may overwhelm a system, denying it to genuine end-users.

* Internship Activities :

The main activities include understanding the purpose of CAPTCHA and develop a CAPTCHA service to deliver a CAPTCHA image and to validate user-entered CAPTCHA text.

* Approach / Methodology

Firstly we designed a login page.

Using java, we are implementing the CAPTCHA logic.

* Outcome / Conclusion

A login page with CAPTCHA enabled service will be prepared.

* Enhancement Scope

The CAPTCHA image can be made with different colours .While taking the input , the input text field characters may be hidden and displayed as some special characters.