Dear Intern

Project report is an inherent component of your internship. We are enclosing a reference table of content for the project report. Depending on the internship project (IT/Non-IT, Technical/Business Domain), you may choose to include or exclude or rename sections from the table of content mentioned below. You can also add additional sections. The key objective of this report is for you to systemically document the project work done.

|  |  |  |
| --- | --- | --- |
| 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-8 | JAVA, HTML, CSS, JavaScript, JSP |

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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 absence 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 have implemented the CAPTCHA logic and connected to the login page.

* **Outcome / Conclusion**

A login page with CAPTCHA enabled service has been prepared to secure the web application.

* **code and executable file**

**<https://github.com/Souvik1020/TCS-RIO>**

<https://souvik1020.github.io/TCS-RIO/>

