

# **INTERNSHIP PROJECT REPORT**

Project Title

## **Digital Platform for US Retirements Fund Switch Journeys**

ExOP ID: **959**

Internship Duration: 28 February - 23 May 2021

Submitted by:

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Under the Mentorship of

**Mr. SENTHIL KUMAR VE**

**TATA CONSULTANCY SERVICES**

## **Table of contents**

- Acknowledgement
- Information about the internship position
- Description of internship experience
- Conclusion

## **Acknowledgement**

I undertook this Internship project and completed the report under the guidance of Mr. Senthil Kumar VE. I am very much grateful to Tata Consultancy Services for this opportunity. It was a great learning experience for me to work as an intern, as the project involved a vast number of interesting services. This Internship helped me understand how Web works in the real time and to get a chance to implement various functionalities. I would like to thank my mentor Mr. Senthil Kumar, who has been a great support to me all throughout my internship by clearing my doubts and has helped me improve a lot.

## **Information about the internship position**

I joined TCS's internship program in the Java based Web development related team. While the central focus of the internship was to create restful web services and implement a backend system with multiple services, I got to learn various other technological concepts too.

## **Description of the Internship experience**

As an Intern, I got to learn the requirements of the project which helped me implement the tasks. Student Data management was the main base functionality of my work.

Some of the tasks that were part of my work included:

- A Help - Chat service between Admin and User, which stores and retrieves all chats on both sides of the users.
- A Restful web service with Mongo DB as database to perform CRUD operations on the Student Data
- A Restful web service with Hibernate ORM features to perform CRUD on Student Data.
- A web service to upload CSV files and add the records in to the database with certain validations carried on them.
- A Basic React Js project with some functionalities and rendering on server side by fetching from some other server.

## Learnings/ TakeAways from the Internship:

- Servlets, JSP's, HTML
- Restful web services
- JSON, its manipulations and uses
- JAX-RS implementations
- Hibernate ORM with java, Mongo DB
- Logging with Log4J
- Java Script
- Dynamically altering the webpage using JavaScript.
- Some concepts of React Js
- Git, Jenkins for deployment
- Improvement of Java Code quality

## Conclusion

From my Internship at TCS, I was able to get a better understanding of how Websites work and how the industry makes it easy for the users to enjoy the benefits of digital world. I enjoyed the Learning experience and the internship helped me to realize how IT industry functions and to get a clear picture of real time implementations of Technology. This internship is a great experience to modulate one's career to get a jump start. However, I still have a long way to go in the industry and learn new technologies and work on them.

Overall, I found the software development internship experience to be positive, and I'm sure I will be able to use the skills I learned in my career.

Thank You