



NITTE
EDUCATION TRUST

N.M.A.M. INSTITUTE OF TECHNOLOGY

(An Autonomous Institution affiliated to Visvesvaraya Technological University, Belagavi)

Nitte – 574 110, Karnataka, India

REPORT

ON

FOUR WEEKS OF INTERNSHIP

Carried out at

Quality Theorem

Submitted to

NMAM INSTITUTE OF TECHNOLOGY, NITTE

(An Autonomous Institution Under VTU, Belagavi)

In partial fulfillment of the requirements for the award of the

Degree of Bachelor of Engineering

in

Computer Science and Engineering

by

Leston John Alva

4NM17CS092

Under the guidance of

Mr. Krishna Mohan

Senior Product Manager



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CERTIFICATE

This is to certify that the “Internship report” submitted by Mr. Leston John Alva bearing USN 4NM17CS092 of VIII semester B.E., a bonafide student of NMAM Institute of Technology, Nitte, has undergone four weeks of internship at Quality Theorem from December 2019 to January 2020 fulfilling the partial requirements for the award of degree of Bachelor of Engineering in Computer Science Engineering at NMAM Institute of Technology, Nitte.

Name and Signature of Mentor

Signature of HOD

Industry Certificate



Certificate of Appreciation

This Certificate is presented to **Mr. Leston John Alva**, student of **NMAM INSTITUTE OF TECHNOLOGY ,NITTE** for successfully completing the internship in web development as **TEAM MEMBER** in our company and submitting the report on project title **ONLINE EXAMINATION SYSTEM** under the guidance of our special team of trainers.

Period of Internship : 16th December 2019 to 17th January 2020

We have found him to be a initiative-taker who is motivated ,duty bound and hard working.

He worked sincerely on his assignments , and his performance was par excellence

Date 18-01-2020

Place Bangalore

Sathya. YS

Authorized Signatory

Sathyanarayana Y S

CEO



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Acknowledgement

The satisfaction that accompanies the completion of any task would be incomplete without the mention of all the people, without whom this endeavor would have been a difficult one to achieve. Their constant blessings, encouragement, guidance, and suggestions have been a constant source of inspiration

First and foremost, my gratitude to my team leader, **Mr. Krishna Mohan** for his constant guidance throughout the course of this Internship and for the valuable suggestions.

I also take this opportunity to express a deep sense of gratitude to the **Quality Theorem Staff** for their valuable guidance and support.

My sincere thanks to our beloved Principal, **Dr. Niranjan N Chiplunkar** for permitting us to carry out this internship at Quality Theorem and providing us with all the needed facilities.

I would like to thank **Dr. Jyothi Shetty**, the Head of the Department, Computer Science and Engineering, NMAMIT, Nitte for their constant support and providing me this opportunity to do the internship.

I acknowledge the support and valuable inputs given by, **Mrs. Shwetha G K**, Assistant Professor GD - II, Computer Science and Engineering, NMAMIT, Nitte.

Finally, thanks to staff members of the Department of Computer Science and Engineering, Information Science and Engineering, and my friends for their honest opinions and suggestions throughout the course of the Internship.

Leston John Alva
4NM17CS092

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Abstract

I carried out my internship in Quality Theorem from December of 2019 to January of 2020 under the supervision of our team lead **Mr. Krishna Mohan**. Quality Theorem as a company deals with IoT products and many other software services to the smart cities' initiative of India.

I worked on one out of their many projects named **Online Examination System** which was intended to be used as one of the services in their offerings to the smart city projects and also as a medium to conduct interviews for future employees of the company.

I got to experience the full software development life cycle from requirement gathering to product testing and delivery. It was an onsite internship with regular office hours and I was the team member of one of the 5 teams working on this project.

Introduction to Quality Theorem

Quality Theorem is a path breaker in the areas of Internet of Things (IoT), Cloud Computing, Big Data, Embedded Programming, and Data Analytics and, has positioned itself to be a go-to provider in the upcoming areas – M2M, Virtual Reality (VR), Augmented Reality (AR), Artificial Intelligence (AI), Robotics and Industry 4.0. They develop products containing the above technologies, which are deployed in many Smart Solutions such as Smart Water, Smart Waste, Smart Effluent, Smart Health, Smart Energy, and other Smart Solutions.

Their engagement with their customers is of varied nature based on the needs of the customer. They develop products required by them or they can take up an end-to-end project/ solution delivery. Also, they can provide professional/ consulting services for a specific need.

Mission & Vision of the company

Mission: Quality Theorem is fully committed to deliver the best state of the art technology services of impeccable quality to our clients and help them maximize their ROI in a thoroughly professional manner; deploy the best possible resources – people, products, and solutions as needed by the clients; for the employees, partners and vendors to be one of the best organizations to work for.

Vision: To be one of the most sought-after solution providers in the areas of Healthcare (especially, Preventative Healthcare), Water/ Waste/ Effluent management & Energy management (and, thus Preserve Environment) by employing Smart & Super Smart Technological advances (such as VR/ AR/ AI & Robotics) happening through this millennium

Details on the training undergone

I was tasked to work on a full-stack web application named Online Examination system that was intended as an offering in the service stack of the Quality Theorem and also as a tool for the assessment of the future employability of the candidates who apply for the employment in Quality Theorem.

I was under the guidance of Mr. Krishna Mohan who guided us daily throughout the duration of the internship. I was able to participate in the whole software development life cycle ranging from requirements gathering, creation of the architecture, deciding on the tech stack, etc. to even testing the system using automated system testing tools and keeping track of the daily progress using project management tools.

The company followed agile methodology for this project and I and the other members were in regular meetings with the project lead and different heads of the company. Most of the staff of the company were very generous in spending valuable time guiding us whenever we required guidance.

The project used HTML, CSS, JS for the front end, PHP for the back end, and MySQL for the database which was hosted on Digital Ocean Linux servers. We became familiar with a lot of libraries for generating charts, pdfs, etc., and also many tools for the project development and also using git for version control. At the end of the month, we became thorough with properly documenting every small change in the code and also writing readable code.

We were also guided on the topic of requirement gathering and project deployment. Also, we were introduced to proper teamwork in an office environment.

Conclusion

Through this internship, I was able to get familiar with an office environment and get hands-on training with the software development process. I was also introduced to the hierarchy of power and command in a company and also understand the agile process of software development. This experience also helped me in getting my first job at another reputed company.

I am thankful for Quality Theorem for this opportunity and also the department of Computer Science and Engineering as well as the department of Information Science and Engineering for facilitating this internship.

Reference

- <https://www.qualitytheorem.com/>