VISVESVARAYA TECHNOLOGICAL UNIVERSITY
"Jnana Sangama", Belagavi-560014, Karnataka

A PROJECT REPORT ON

"Providing Quality of Service Using SDN"

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE
AWARD OF THE DEGREE

BACHELOR OF ENGINEERING
IN
INFORMATION SCIENCE & ENGINEERING

Submitted By
MD ASIF HUSSAIN   (1SV19IS009)
SAI PAVAN   (1SV19IS015)
THANUJA M   (1SV19IS023)

Under the guidance of

Dr. CHARAN K V M.Tech.,Ph.D.

HOD , Dept. of AI&DS, SIET,Tumakuru

SHRIDEVI
EDUCATION

Department of Information Science and Engineering

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated To Visvesvaraya Technological University)
Sira Road, Tumakuru – 572 106, Karnataka.
2020-21

PRINCIPAL
SHRIDEVI INSTITUTE OF
ENGINEERING AND TECHNOLOGY
TUMKUR 572106

Sri Shridevi Charitable Trust (R.)

SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

SHRIDEVI EDUCATION

(Recognised by Govt. of Karnataka, Affiliated to VTU, Belagavi and Approved by AICTE, New Delhi)

Sira Road, Tumakuru - 572 106. Karnataka.

FS 543667

An ISO 9001:2015 Certified Institution

Phone: 0816-2212629 | Fax: 0816-2212628 | Email: info@shrideviengineering.org | Web: http://www.shridevingineering.org

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that, the project entitled "PROVIDING QUALITY OF SERVICE USING SDN" has been successfully carried out by MD Asif Hussain[1SV19IS009], Sai Pavan [1SV19IS015], Thanuja M [1SV19IS023] in partial fulfillment for the award of **Bachelor of Engineering** in **Information Science & Engineering** of the **Visvesvaraya Technological University, Belagavi** during the academic year **2022-23.** It is certified that all the corrections/suggestions indicated for internal assessments have been incorporated in the report. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

Signature of Guide

Dr. Charan K V M.Tech.,Ph.D.
Associate Professor &HOD
Dept.Of AI&DS,
SIET, Tumakuru.

Signature of H.O.D

Dr. Suhas G K M.Tech,Ph.D.
Associate Professor & HOD Dept.
Dept. of ISE,
SIET, Tumakuru.

Signature of Principal

Dr.Narendra Viswanath M.E., Ph.D., MIE, MISTE, MIWS., FIV
Principal,
SIET, Tumakuru

ENGINEERING AND TECHNOLOGY
TUMKUR - 572106.

External Viva

Name of the Examiners

1. Dr. Manoj Kumar DP

2. Merlin B

Signature with Date

24/5/23

24/5/23

DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING

DECLARATION

We, MD Asif Hussain [1SV19IS009], Sai Pavan[1SV19IS015], Thanuja M [1SV19IS023], student of VIII semester **B.E** in Information Science & Engineering, at Shridevi Institute of Engineering & Technology, Tumakuru, hereby declare that, the project work-II entitled **"Providing Quality of Service using SDN"**, embodies the report of our project work carried out by our team under the guidance of **Dr. Charan K V, Associate Professor, Department of AIDS**, SIET, Tumakuru as partial fulfillment of requirements for the award of the degree in **Bachelor of Engineering in Information Science & Engineering of Visvesvaraya Technological University, Belagavi**, during the academic year **2022-23**. The project has been approved as it satisfies the academic requirements in respect to the Project work.

PRINCIPAL
SHRIDEVI INSTITUTE OF
ENGINEERING AND TECHNOLOGY
TUMKUR - 572106

Place: Tumakuru

Date 25/06/23

Student Name & Signature

MD ASIF HUSSAIN[1SV19IS009] ....

SAI PAVAN [1SV19IS015] ....

THANUJA M[1SV19IS023].............

ACKNOWLEDGEMENT

This project work will be incomplete without thanking the personalities responsible for this venture, which otherwise would not have become a reality.

We express our profound gratitude to **Dr.Narendra Viswanath**, Principal, S.I.E.T, for his moral support towards completing our project work.

We would like to thank Head of Department **Dr. Suhas G K** Head, Department of ISE, SIET for providing all the support and facility.

We would like to thank my guide **Dr. Charan K V, Associate Professor, Department of AI&DS**, Department of Artificial Science and Data Science and Engineering, SIET for his help, sharing his technical expertise and timely advice.

We whole heartedly thank, **Mr. Girish L**, Assistant Professor, Project coordinator, Department of Computer Science and Engineering, for the support.

We would like to express our sincere gratitude to all teaching and non-teaching faculty of the department of CSE for guiding us throughout the course of this project by giving valuable suggestion and encouragement.

By,
MD ASIF HUSSAIN[1SV19IS009]
SAI PAVAN [1SV19IS015]
THANUJA M[1SV19IS023]

PRINCIPAL
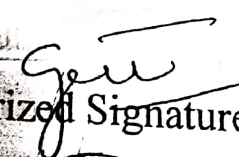SHRIDEVI INSTITUTE OF
ENGINEERING AND TECHNOLOGY
TUMKUR - 572106

ShriTEK Innovations

○ Skill & Career Development Centre, Room No. 3, Ground Floor,
SIET Campus, Sira Road, Tumakuru - 572 106. Karnataka.

✆ : 0816-2211642
⊕ : www.shritek.com
✉ : shritekinnovations@gmail.com

Date: 22/05/2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Mr. MD ASIF HUSSAIN** bearing USN **1SV19IS009** Student of **Shridevi Institute of Engineering & Technology** has successfully completed his Project Work titled "Providing Quality of Service Using SDN".

We wish every success in his career.

For ShriTEK Innovations

Authorized Signature

PRINCIPAL
SHRIDEVI INSTITUTE OF
ENGINEERING AND TECHNOLOGY
TUMKUR - 572106

ShriTEK Innovations

● 0816 7711642
● : www.shritek.com
● : shritekinnovations@gmail.com

● Sri S Career Development Centre Room No 3 Ground Floor
SIT Campus Sira Road Tumakuru 572 106 Karnataka

Date: 22/05/2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Mr. SAI PAVAN** bearing USN **1SV19IS015** Student of **Shridevi Institute of Engineering & Technology** has successfully completed his Project Work titled "Providing Quality of Service Using SDN".

We wish every success in his career.

For ShriTEK Innovations

Authorized Signature

PRINCIPAL
SHRIDEVI INSTITUTE OF
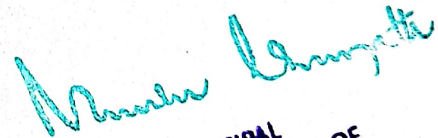ENGINEERING AND TECHNOLOGY
TUMKUR - 572106

SHRITEK Innovations

Skill & Career Development Centre, Room No. 3, Ground Floor,
SIET Campus, Sira Road, Tumakuru - 572 106. Karnataka.

✆ : 0816-2211642
🌐 : www.shritek.com
✉ : shritekinnovations@gmail.com

Date: 22/05/2023

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **Ms. THANUJA M** bearing USN **1SV19IS023** Student of **Shridevi Institute of Engineering & Technology** has successfully completed her Project Work titled "Providing Quality of Service Using SDN".
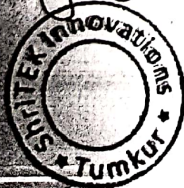
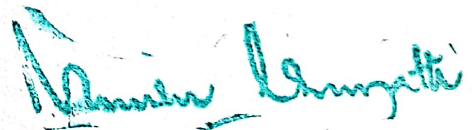We wish every success in her career.

For ShriTEK Innovations

PRINCIPAL
SHRIDEVI INSTITUTE OF
ENGINEERING AND TECHNOLOGY
TUMKUR - 572106

Authorized Signature

Scanned with OKEN Scanner

ABSTRACT

In modern life the internet has become backbone of digital society which is the packet switched distributed network and connected with almost every digital devices, available everywhere in the world. The traditional network carries few challenges like, dependency on vendors, difficulty to manage large network, dynamically changing of forwarding policies and more. To overcome such challenges, today the idea of Software Defined Networking (SDN) came into existence. It prevents traffic in the network.

PRINCIPAL
SHRIDEVI INSTITUTE OF
ENGINEERING AND TECHNOLOGY
TUMKUR - 57