

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-560014, Karnataka



CGV MINI PROJECT REPORT

ON

"Bus Simulation"

*"SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR
THE CGV LAB"*

**BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE & ENGINEERING**

Submitted By

**MAJMA ANJUM
(1SV20CS021)**

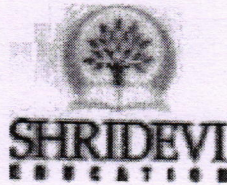
Under the guidance of

Mr. Renukaradhya P.C B.E., M.Tech.,

Assistant Professor, Dept. of CSE.

N. Srinivas Kumar

PRINCIPAL
SIRI T. TUMKUR.



Department of Computer Science and Engineering

SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY
(Affiliated To Visvesvaraya Technological University)

Sira Road, Tumakuru – 572106, Karnataka.

2022-23



Sri Shridevi Charitable Trust (R.)
SHRIDEVI INSTITUTE OF ENGINEERING & TECHNOLOGY

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

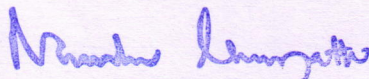
CERTIFICATE

This is to certify that, Computer Graphics and Visualization Mini-Project of titled "Bus Simulation" has been successfully carried out by Majma Anjum[1SV20CS021], in partial fulfillment for the CGV Lab of Bachelor of Engineering in Computer 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 Mini-Project report has been approved as it certifies the academic requirements in respect of Mini-Project work prescribed for the Bachelor of Engineering Degree.

Signature of Guide

Mr. Renukaradhya P.C B.E., M.Tech.,

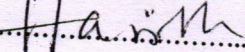
Assistant Professor,
Dept. of CSE,SIET,Tumakuru.

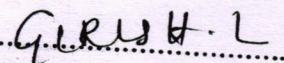

PRINCIPAL
SIET. TUMKUR.

Signature of H.O.D

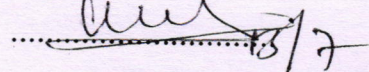
Dr. Basavesha D M.Tech.,Phd,
Assoc Professor &HOD
Dept. of CSE.SIET. Tumakuru.

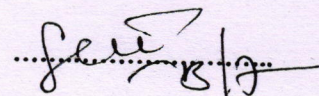
Name of the Examiners

1... 

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Signature with date







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DECLARATION

I, Majma Anjum [1SV20CS021], student of VI semester B.E in Computer Science & Engineering, at Shridevi Institute of Engineering & Technology, Tumakuru, hereby declare that, the Mini-Project work entitled “**Bus Simulation**”, embodies the report of our Mini-Project work carried out under the guidance of **Mr. Renukaradhya P.C. Assistant Professor, Department of CSE, SIET, Tumakuru** as partial fulfillment of requirements for the CGV Lab in **Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi**, during the academic year **2022-23**. The Mini-Project has been approved as it satisfies the academic requirements in respect to the Mini-Project work.

Place: Tumakuru

Date: 04.10.23

Student Name & Signature

MAJMA ANJUM

[1SV20CS021]

Majma Anjum

Nenukaradhya P.C.
PRINCIPAL
SIET, TUMKUR.

ABSTRACT:

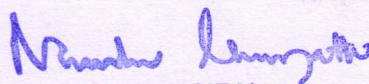
The aim of this project is to develop a real-time bus simulation system using computer graphics techniques. The project focuses on creating a visually immersive and interactive environment that accurately represents the operation and dynamics of a bus within a virtual city. The simulation will employ advanced computer graphics algorithms and physics-based modeling to realistically depict the behavior of a bus, including its movement, steering, acceleration, and braking. The virtual city environment will be designed to provide a realistic urban setting with various road types, traffic signals, pedestrian interactions, and other elements commonly encountered in real-world driving scenarios.

Technology used

Graphics Software: various software packages are available for creating computer graphics, including 3D modeling and animation software,

Computer Hardware:

A powerful computer with a good graphics card and sufficient storage capacity is required to run graphics software, C++ and python languages are used in graphics.



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