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

<u>CGV MINI PROJECT</u>

"SOLAR SYSTEM"

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE COMPUTER GRAPHICS LAB WITH MINI PROJECT

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE & ENGINEERING

<u>Submitted By:</u>

KAVYA M(1SV20CS017)

<u>Under the guidance of</u>

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Assistant Professor, Dept. of CSE.

PRINCIPAL
SIE T. TUMKUR.

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SHRIDEVI INSTITUTE OF ENGINEERING AND TECHNOLOGY
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Sira Road, Tumakuru – 572106, Karnataka.
2022-2023

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that, The Computer Graphics mini project report of entitled "SOLAR SYSTEM" has been successfully carried out by KAVYA M[1SV20CS017], in partial fulfillment for the completion of Computer Graphics **Mini Project 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 CGVMini Project work prescribed for the Bachelor of Engineering Degree.

Signature of Guide

Mr. Renukaradhya P.C., BE., M.Tech.,MISTE
Assistant Professor, Dept. of CSE,
SIET, Tumakuru.

PRINCIPAL
SIET, TUMKUR.

Signature of H.O.D

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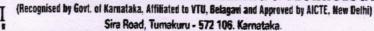Associate Professor & HOD Dept. of CSE,
SIET, Tumakuru.

Name of the Examiners

1 .... GIRISH L

2 .... Harish

Signature with date

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

DECLARATION

I, **KAVYA M [1SV20CS017]** , student of VI semester **B.E** in Computer Science & Engineering, at Shridevi Institute of Engineering & Technology, Tumakuru, hereby declare that, the CGV Mini-Project work entitled **"SOLAR SYSTEM"**, embodies the report of our CGV 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 Mini Project report in **Bachelor of Engineering in Computer Science & Engineering of Visvesvaraya Technological University, Belagavi**, during the academic year **2022-23**. The CGV Mini-Project has been approved as it satisfies the academic requirements in respect to the CGV Mini-Project work.

Place: Tumakuru

Student Name & Signature

Date:
4|7|2023

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ABSTRACT

The Solar System is a vast and complex system consisting of the Sun, eight planets, numerous moons, asteroids, comets, and other celestial objects. It is located in the Milky Way galaxy and serves as our cosmic neighborhood. The Sun is a massive star at the center of the Solar System, providing heat, light, and energy to all other objects within its gravitational influence. The Solar System comprises eight planets, classified into two main categories. The inner rocky planet are Mercury, Venus, Earth, and Mars, while the outer gas giants are Jupiter, Saturn, Uranus, and Neptune. Each planet has unique characteristics, such as size, composition, atmosphere, and satellites. Many celestial bodies within the Solar System have moons, which are natural satellites orbiting around planets or dwarf planets. For instance, Earth has one moon (Luna), while Jupiter and Saturn possess numerous moons, with some being significant in size and complexity.

The software includes a variety of visualizations, such as 3D models, animations, and simulations, this makes the player to attract. The common technologies used in computer graphics projects are, Programming languages: Programming languages such as C++. Graphics libraries: Graphics libraries OpenGL, provide low-level access to the graphics hardware and enable developers to create high-quality 2D and 3D graphics. 3D modeling software: Blender is used to create 3D models, animations, and visual effects.

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