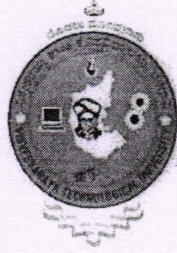# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama", Belagavi-560014, Karnataka

CGV MINI PROJECT REPORT

ON

"Home Simulator"

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE CGV LAB

BACHELOR OF ENGINEERING
IN
COMPUTER SCIENCE & ENGINEERING

Submitted By

Smriti Dewangan
(1SV20CS047)

Under the guidance of

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

Assistant Professor, Dept. of CSE.

PRINCIPAL
SIET. 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

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

<u>CERTIFICATE</u>

This is to certify that, Computer Graphics and Visualization Mini-Project of entitled "Home Simulator"has been successfully carried out by Smriti Dewangan [1SV20CS047], 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

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SIET. TUMKUR.

Signature of H.O.D

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

Name of the Examiners

1 ....

2 ...Renukaradhya P.C

Signature with date

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

<u>DECLARATION</u>

I, Smriti Dewangan [1SV20CS047], 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 **"Home Simulator"**, 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: 05/07/23

Student Name & Signature

SMRITI DEWANGAN
[1SV20CS047]

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ABSTRACT:

The home simulator computer-generated virtual (CGV) project aims to create an immersive virtual environment that replicates the experience of being in a home setting. The project utilizes advanced computer graphics and simulation techniques to recreate realistic interiors, including furniture, lighting, and textures. Users can navigate and interact within this virtual home, experiencing a sense of presence and familiarity. The simulator offers a wide range of customization options, allowingusers to modify the layout, decor, and even experiment with smart home technologies. This CGV project provides a practicaland cost-effective solution for architectural design, interior decoration, and real estate visualization, catering to various userneeds.

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.

Nandu Umajette
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