AVR 360^{0}-FT- ADAPTIVE VIRTUAL K REALITY ON THE EFFECT OF VIEWING CAMPUS AT FINGER TIP

A PROJECT REPORT

Submitted by

YESWANTH A (511920104074)

SABARINATHAN M (511920104052)

in partial fulfillment for the award of the degree

Of

BACHELOR OF ENGINEERING

In

COMPUTER SCIENCE AND ENGINEERING

5119 – PRIYADARSHINI ENGINEERING COLLEGE,

VANIYAMBADI – 635751

ANNAUNIVERSITY, CHENNAI-600025

MAY 2024

ANNAUNIVERSITY, CHENNAI-600025

BONAFIDE CERTIFICATE

Certified that this project report "**AVR 360^0 -FT- ADAPTIVE VIRTUAL K REALITY ON THE EFFECT OF VIEWING CAMPUS AT FINGER TIP ",** is the bonafide work of **"YESWANTH A, SABARINATHAN M"** who carried out the project work under my supervision. Certified further that to the best of my knowledge the work reported here in does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

SIGNATURE

Prof.A.S.KUMARESAN,M.E,FIE.,(Ph.D)

HEAD OF THE DEPARTMENT,

Associate professor,

Department of CSE,

Priyadarshini Engineering College,

Vaniyambadi-635751,

Tirupattur District.

SIGNATURE

Mr. V.SURENDIRAN.M.E.,

SUPERVISOR,

Assistant Professor,

Department of CSE,

Priyadarshini Engineering College,

Vaniyambadi-635751,

Tirupattur District.

CERTIFICATE OF EVALUATION

College Name : Priyadarshini Engineering College ,Vaniyambadi - 635751.

Branch & Semester : Computer Science and Engineering – 8thSemester

S.No	Name of the students	Register number	Title of the project	Name of the supervisor
1. **2.**	YESWANTH.A SABARINATHAN.M	511920104074 511920104052	AVR 360⁰ - FT-ADAPTIVE VIRTUAL K REALITY ON THE EFFECT OF VIEWING CAMPUS AT FINGER TIP	Mr.V.SURENDIRAN. M.E., Assistant Professor, Department of CSE.

The report of the project work submitted by the above students in partial fulfillment for the award of Bachelor of Engineering Degree in Computer Science and Engineering of Anna University were evaluated and confirmed to the report of the project work done by the above students and then evaluated.

Submitted for the University Project Viva-Voce examination held on_____

at Priyadarshini Engineering College,Vaniyambadi – 635751

INTERNAL EXAMINER **EXTERNAL EXAMINER**

ACKNOWLEDGEMENT

First of all, I praise & thank the almighty from the depth of my heart who has been with me as source of strength, compact & inspiration in the completion of this project work. At the outset, I would like to decide my sincere thanks to our honourable **Chairman, Managing Trustee and Correspondent** for providing me infrastructural Facilities to work in.

I also express my sincere gratitude to our respected and beloved principal **Dr.K.VIJAYARAJ,ME.,Ph.D.,** for his extremely valuable guidance and support, also providing all facilities to complete our project.

I also express my sincere gratitude to our Head of the Department **Prof.A.S.KUMARESAN,ME.,FIE.,Ph.D.,** for this support and encouragement, which held me for the completion of this project.

I express my sincere thanks and respect to our project coordinator **Dr.V.MALA,M.E.,Ph.D.,** Associated professor, Department of Computer Science and Engineering, who guided me for doing project Successfully.

With immense pleasure I regard my deep sense of indebtedness and gratitude to my project Guide **Mr.V.SURENDIRAN.ME.,** Assistant Professor, Department of Computer Science and Engineering, who was not only a source of inspiration but also for motivating me with her gratitude and continuous support in the execution of the project.

I am thankful to get constant encouragement support and guidance from all the **Teaching and Non-Teaching Faculty Members** of the Department of Computer Science and Engineering and I also thank my **Family and Friends** who aided me in completing the Project. To one and all ,I own acknowledgement who directly aided me in completing the project.

YESWANTH.A

SABARINATHAN.M

ABSTRACT

Geotagging of all educational institutions integrated with virtual tour on Map. Students/parents can Visit any part of the country on map and take virtual tour along with facilities/courses available across Our Country is a much needed solution to help the students and their parents/guardians take the decision sitting at

Home. Enable the parents and students to get a full virtual tour of the colleges and get the information regarding Courses and facilities provided instantly.

Geotagging, the process of associating geographical coordinates with digital data, has become an Indispensable tool in various domains. In the field of education, geotagging can play a vital role in providing Accurate and up-to-date information about educational institutions. However, the existing methods for Geotagging educational institutions often lack efficiency, scalability, and comprehensive coverage.This project proposes a novel approach for geotagging of all educational institutions, aiming to Overcome the limitations of existing methods. The primary objective is to develop a robust and automated System that can accurately geotag educational institutions, including schools, colleges, universities, and Training centers, on a global scale.

Furthermore, government bodies, policymakers, and researchers can leverage the geotagged data to Gain insights into the distribution and accessibility of educational institutions. It can assist in identifying areas

With educational infrastructure gaps, analyzing enrollment patterns, and optimizing resource allocation for Educational development.

The proposed novel approach for geotagging of all educational institutions has the potential to Revolutionize the way educational information is accessed, analyzed, and utilized. By employing advanced Technologies and innovative methodologies, this project aims to provide a comprehensive and accurate Geotagging solution that benefits both individuals and society as a whole.

CHAPTER	TABLE OF CONTENTS	PAGE NO
	BONAFIDE CERTIFICATE	ii
	CERTIFICATION OF EVALUATION	iii
	ACKNOWLEDGEMENTS	iv
	ABSTRACT	v
	TABLE OF CONTENTS	vi
	LIST OF TABLES	viii
	LIST OF FIGURES	ix
1	**INTRODUCTION**	1
	1.1 Background Information	1
	1.1.1Statement Of Problem	2
	1.2 Aim Of Study	3
	1.3 Objectives of the Study	3
	1.4 Methodology	3
	1.5 Significant of the Project	4
	1.6 Scope of the Study	5
	1.7 Project Report Arrangement	6
2	**LITRATURE REVIEW**	7
	2.1 Overview of the Study	7
	2.2 Theoretical view	7
	2.2.1Reference and Test	8
	2.3 Empirical Review	9
	2.4 Subjective Quality	10
	2.5 Viewing Conditions and Users' Viewing Experience in VR	11
	2.6 Contributions	11
	2.7 Experimental Setup	12

2.7.1Software and Technical Equipment 12

3 SYSTEM ANALYSIS AND DESIGN 13

3.1 Overview of System Analysis 13

3.2 Analysis of Existing System 13

3.3 Proposed System 14

3.3.1 Benefits of this System 15

3.4 Development Model 15

3.5 System Modelling 17

3.5.1 System Architecture 17

3.5.2 Use case Diagram of the System 18

3.5.3 Flowchart of the System 18

4 SYSTEM IMPLEMENTATION AND RESULTS 20

4.1 Installation Requirements 20

4.1.1 Hardware Requirements 20

4.1.2 Software Requirements 20

4.2 Model Development 21

4.2.1 Home Page Model Development 21

4.2.2 College Website Model Development 44

4.2.3 Virtual Tour Model 77

4.3 General Working of The System 79

4.3.1 Home Page Display 79

4.3.2 Individual college Websites 79

4.3.3 Virtual Tour Experience 80

5 SUMMARY, CONCLUSION, AND RECOMMENDATIONS 85

5.1 Summary 85

5.2 Contribution of The Knowledge 85

5.3 Conclusion 85

5.4 Recommendation 85

REFERENCE **86**

LIST OF TABLES

Table 2.1 Parameters of the reference and test videos used for each of the four scenes 9

Table 2.2 Literature survey 10

LIST OF FIGURES

Figure 2.1 Test session schedule used for standing and seated viewing of 360_ videos on an HMD 8

Figure 2.2 Box plots of rating times for each scene and average rating times over the four scenes 8

Figure 3.1 web Development features 16

Figure 3.2 Architectural Design of the Proposed System 17

Figure 3.3 Use Case diagram for Proposed System 18

Figure 3.4 Flowchart of the proposed System 19

Figure 4.1(a) The Home Page 80

Figure 4.2 The College website Home Page 81

Figure 4.3 College Notice Board and Recent Events 81

Figure 4.4 College Information and VR redirect 82

Figure 4.5 College Achievement 82

Figure 4.6 College Gallery and Course Details 83

Figure 4.7 College Website Footer 84

Figure 4.8 College VR TOUR Page(a) 84

Figure 4.9 College VR TOUR Page(b) 85

Figure 4.10 College VR TOUR Page(c) 85