



FINAL YEAR PROJECT REPORT

ARS PLACE

In fulfillment of the requirement
For degree of
BS (COMPUTER SCIENCES)

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DECLARATION

We hereby declare that this project report is based on our original work except for citations and quotations which have been duly acknowledged. We also declare that it has not been previously and concurrently submitted for any other degree or award at Bahria University or other institutions.

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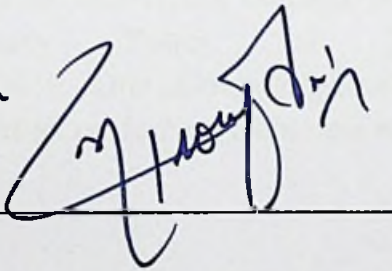
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APPROVAL FOR SUBMISSION

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Specially dedicated to
my beloved grandmother, mother, and father
(Kishwar , Rubina Rashid and Rashid Rizwan Khan)
my beloved grandmother, mother, and father
(Razia Bano, Afshan Jawaid and Muhammad Jawaid Akhtar)
my beloved grandmother, mother, and father
(Raheema Bibi, Rasheeda Bano and Ghulam Muhammad)

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ARS PLACE

ABSTRACT

The objective of this project is to develop an AR-based web application that will allow customers to see products in their real-time surroundings. The main objective behind creating this project was to increase customer satisfaction and decrease product returns. This report explores the different stages of creating this application and how it will customer and admin profiles coordinate with each other and do their respective action. Our final product is an AR based web application that will allow the customer to order a product and order it by using payment method like Paypal.

This project uses Augmented Reality to display products in real-time surroundings. We have Web XR and Model Viewer for implementing AR. The Server side language used in our product is node.js, the front end is built using react.js and ReactStrap is used for making the web application responsive on all mobile devices, and React redux is used for managing states

We have used MongoDB as our database and it has four schemas in total with multiple fields. We use MongoDB as it can store structured and unstructured data easily and can store 3D models. We have toured 3D models in glb file format. For doing that we first took gltf models and converted them to glb using the blender,

TABLE OF CONTENTS

DECLARATION	ii
ACKNOWLEDGEMENTS	vi
ABSTRACT	vii
TABLE OF CONTENTS	viii
LIST OF FIGURES	xii

CHAPTER

1	INTRODUCTION	1
	1.1 Background	1
	1.2 Problem Statements	3
	1.3 Aims and Objectives	3
	1.4 Scope of Project	3
2	LITERATURE REVIEW	5
	2.1 Growth of E-Commerce	5
	2.2 Why do people avoid buying products online and common issues with online shopping	6
	2.3 The rise of AR in the E-Commerce world	6
	2.4 How AR Improves Customer's shopping experience	7
	2.5 Summary of the Literature Review	8
	2.6 Companies that used AR in E-Commerce and their issue	10
3	DESIGN AND METHODOLOGY	11
	3.1 Overview	11
	3.2 Customer Side	12

	3.2.1	Homepage	12
	3.2.2	Product Page	12
	3.2.3	Cart Page	13
	3.2.4	Checkout	13
	3.2.5	Order Page	13
	3.2.6	Customer Profile Page	14
	3.3	Admin Side	14
	3.3.1	Admin Dashboard	14
	3.4	Gantt Chart	15
3		IMPLEMENTATION	16
	3.1	Backend	16
	3.2	Frontend	16
	3.3	Model viewer	17
	3.4	Blender	17
	3.5	Web XR	17
	3.6	React Strap	18
	3.7	Database	18
	3.7.1	User Schema	18
	3.7.2	Review Schema	18
	3.7.3	Product Schema	19
	3.7.4	Order Schema	19
	3.8	Basic Architecture of our application	20
	3.9	Architecture Workflow of our website (Admin side)	21
		21	
	3.9	Workflow of Customer Side	22
	3.9	Workflow of AR Module	23
4		RESULTS AND DISCUSSIONS	25
	4.1	Results	25
	4.1.1	Homepage	25
	4.1.2	Login Page	26
	4.1.3	Register Page	27

4.1.4	Product Page	28
4.1.5	Product in Real Time Surrounding	30
4.1.6	Cart Page	32
4.1.7	Delivery Address	32
4.1.8	Payment Method	33
4.1.9	Order Page	34
4.1.10	Customer Profile Page	34
5	CONCLUSION AND RECOMMENDATIONS	39
5.1	Conclusion	39
5.2	Recommendation	39
	APPENDICES	40
	APPENDIX A: Computer Programme Listing (CODE)	40