



FINAL YEAR PROJECT REPORT
ONLINE INVESTMENT ASSISTANT

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

By

ABDULLAH BIN RAZA

59983(BSCS)

MANAAL AZFAR

60029(BSCS)

AZKA SHAIKH

60036(BSCS)

SUPERVISED

BY

MADAM FASIHA IKRAM

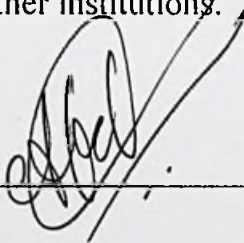
BAHRIA UNIVERSITY (KARACHI CAMPUS)

FALL-2022

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.

Signature:



Name :

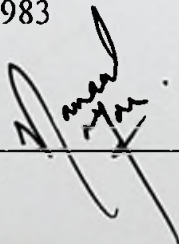
ABDULLAH BIN RAZA

Reg :

59983

Signature

:



Name :

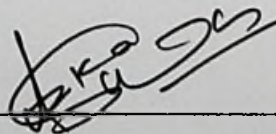
MANAAL AZFAR

Reg No:

60029

Signature

:



Name :

AZKA SHAIKH

Reg No:

60036

Date :

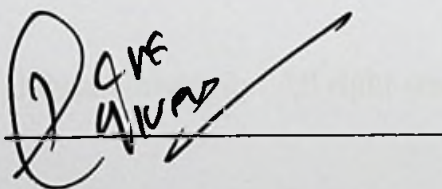
12th Jan' 2023

APPROVAL FOR SUBMISSION

We certify that this project report entitled “**INVESTMENTASSISTANT**” was prepared by **ABDULLAH BIN RAZA, MANAAL AZAR and AZKA SHAIKH** has met the required standard for submission in partial fulfilment of the requirements for the award of Bachelor of **Computer Science** at Bahria University.

Approved by,

Signature :

A handwritten signature in black ink, appearing to be 'Fasiha Ikram', written over a horizontal line. The signature is stylized and includes a long diagonal stroke extending to the right.

Supervisor : Madam Fasiha Ikram

Date :

12th Jan 2023

The copyright of this report belongs to Bahria University according to the Intellectual Property Policy of Bahria University BUORIC-P15 amended on April 2019. Due acknowledgement shall always be made of the use of any material contained in, or derived from, this report.

© 2022 Bahria University. All right reserved.

Specially dedicated to
my beloved grandmother, mother, and father
(ABDULLAH BIN RAZA)
my beloved grandmother, mother, and father
(MANAAL AZFAR)
my beloved grandmother, mother, and father
(AZKA SHAIKH)

ACKNOWLEDGEMENT

We would like to thank everyone who had contributed to the successful completion of this project. We would like to express my gratitude to my research supervisor, Madam Fasiha Ikram for her invaluable advice, guidance and her enormous patience throughout the development of the research.

In addition, we would also like to express my gratitude to our loving parent and friends who had helped and given me encouragement.

ONLINE INVESTMENT ASSISTANT

ABSTRACT

The study, entitled "Online Investment Assistant," is an application that aims to guide and lead the user to make the most appropriate possible investment decision. The purpose is not to have a computer surreptitiously anticipate the outcome of a stock, but to put computer processing capacity and artificial intelligence approaches to use in the e-commerce sector. The tool is designed to help investors make stock investments based on their budget. The online investment assistant allows the user to keep track of the top trending products. It recommends the user the top trending products in the market and provides them with a list of manufacturers who manufacture those products. This will enable them to get their hands on them. Then, by selecting the manufacturer or vendor from which the user is purchasing the niche, our tool will present the market strategy for the selected niche. Our investment assistant targets employees who are micro investors, investing the average amount of their savings. As a first step, our app allows them to enter their investment amount, and then the activity cycle proceeds to the selection of a niche. Additionally, it displays the most trending and bestselling products among a range of categories, along with A.I.-driven modules of best sellers for them and for the best marketing strategy.

TABLE OF CONTENTS

DECLARATION	i
APPROVAL FOR SUBMISSION	ii
ACKNOWLEDGEMENTS	v
ABSTRACT	vi
TABLE OF CONTENTS	vii
LIST OF TABLES	x
LIST OF FIGURES	xi
LIST OF SYMBOLS / ABBREVIATIONS	xiii
CHAPTER	14
1 INTRODUCTION	14
1.1 BACKGROUND	14
1.2 PROBLEM STATEMENTS	15
1.3 AIMS AND OBJECTIVES	16
1.4 SCOPE OF PROJECT	16
2 LITERATURE REVIEW	17
2.1 ANALYSING OF SIMILAR SYSTEM	17
2.2 RELATED WORK	17
2.2.1 Ali Hunter	18
2.2.2 Pexgle	18
2.2.3 Find Niche	18
2.3 COMPARSION OF ABOVE APPLICATIONS	20
3 DESIGN AND METHODOLOGY	21
3.1 DATA PRE-PROCESSING	21
3.2 PROPOSED APPROACH	24
3.3 DESIGN	25
3.3.1 HOMEPAGE	26
3.3.2 USER MODULE	26
3.3.2.1 Budget and Niche	26
3.3.2.2 Product Screen	26

3.3.2.3	Manufacturers List	26
3.3.3	VENDOR	27
3.3.3.1	Product Screen	27
3.3.3.2	Orders	27
3.3.4	ADMIN	27
3.4	SYSTEM ARCHITECTURE	28
3.5	WORKFLOW OF APPLICATION WITH RESPECT TO VENDOR	29
3.6	WORKFLOW OF APPLICATION WITH RESPECT TO ADMIN	30
3.7	WORKFLOW OF APPLICATION WITH RESPECT TO USER	31
3.8	METHODOLOGY	32
3.8.1	Best-Sellers	33
3.8.2	Marketing Strategy	35
3.9	USE CASE DIAGRAM	36
4	IMPLEMENTATION	37
4.1	BACKEND	37
4.2	FRONTEND	38
4.3	SQL DATABASE	39
4.3.1	Dataset	41
4.3.1.1	Vendor	41
4.3.1.2	Category	42
4.3.1.3	Product	43
4.3.1.4	User	44
4.3.1.5	Product Details	45
4.4	SPRING BOOT	46
4.5	FIGMA	46
4.6	SCRAPING DATA	46
5	RESULTS AND DISCUSSION	47
5.1	RESULT	47
5.2	FRONT END DESIGN	48
5.2.1	Login Screen	48
5.2.2	Register Screen	48

5.2.4 Product Screen	49
5.2.5 Product Details Screen	50
5.2.6 Manufacturers List Screen	50
5.2.7 Vendor Product Screen	51
5.2.8 Track Order Screen	51
5.2.9 Vendor Add Product Screen	52
5.2.10 Edit Category Screen	52
5.2.11 Add Vendor Screen	53
5.2.12 Admin Screen	53
5.3 TESTING	54
6 CONCLUSION AND RECOMMENDATIONS	56
6.1 CONCLUSION	56
6.2 RECOMMENDATION	57
REFERENCES	58
APPENDICES	61
APPENDIX A: Computer Programme Listing (CODE)	61