



FINAL YEAR PROJECT REPORT

FITNESS PORTAL FOR HEALTHY LIVING

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

By

SYED IBADULLAH

57206 (BSCS)

SYED ALI ASR RIZVI

57131 (BSCS)

ASADULLAH

57167 (BSCS)

SUPERVISED

BY

MR. MALIK M ALI

BAHRIA UNIVERSITY (KARACHI CAMPUS)

SPRING-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.

Name : Syed Ibadullah

Reg No. : 02-134182-113

Signature :  _____

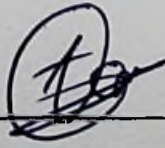
Name : Syed Ali Asr Rizvi

Reg No. : 02-134182-008

Signature :  _____

Name : Asadullah

Reg No. : 02-134182-056

Signature :  _____

Date : 1/3/2022

The copyright of this report belongs to Bahria University as qualified by Intellectual Property Policy of Bahria University BUORIC P-15 amended April 2019. Due acknowledgement shall always be made of the use of any material contained in, or derived from, this report.

© Bahria University all right reserved.

ACKNOWLEDGEMENTS

We would like to thank everyone who had contributed to the successful completion of this project. We would like to express our gratitude to our research supervisor, Mr. Malik M Ali for his invaluable advice, guidance, and his enormous patience throughout the development of the research.

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

ABSTRACT

The objective of this project is to provide users the information regarding home workout, a platform to expand their knowledge on fitness and nutrient plans. We do this by Collecting information from users like weight, height, medical history. Our main goal from this project is to encourage people to work out wherever and whenever they see fit and defeat the stereotype that working out requires machines or going to gym. This project uses a fitness portal as a source of information about the aforementioned objectives. Fitness portal is a very useful website which lets user have access to different sorts of information related to workouts, nutritional information, diet plans and much more. It is targeted specifically for beginners who are looking for fitness goals and want to achieve a certain goal in a certain time period, beginners who want to seek knowledge about nutrition and diet plans and how to proceed with their daily workouts, people who are not willing to invest their time in visiting gyms but need a regular basis plan remotely. It is basically a platform to motivate and develop interest in users who want to start working out without being overwhelmed with exercises and heavy lifting, it will allow users to slowly progress without losing interest in the field.

TABLE OF CONTENTS

DECLARATION	ii
APPROVAL FOR SUBMISSION	iii
ACKNOWLEDGEMENTS	v
ABSTRACT	vi
TABLE OF CONTENTS	vii
LIST OF FIGURES	xi
LIST OF SYMBOLS / ABBREVIATIONS	xii

CHAPTER

1	INTRODUCTION	1
	1.1 Background	1
	1.2 Problem Statements	1
	1.3 Aims and Objectives	2
	1.4 Scope of Project	2
	1.4.1 Project Output	2
	1.4.2 Final Deliverable	2
	1.4.3 Resource Estimation	3
2	LITERATURE REVIEW	4
	2.1 Field of Reference	4
	2.2 Introduction	4
	2.3 Portal	4
	2.3.1 Find Relevant Data and Research	5
	2.3.2 Join Research Communities and Find Collaborators	5
	2.3.3 Keep up to date with Research Trends	5

	2.3.4	Make Data and Research Available in the most Effective Way	6
2.4		Importance of Having a Healthy Life	6
	2.4.1	BMI and Diet	6
	2.4.2	Exercising	6
	2.4.3	Proper Sleep	7
	2.4.4	Substance abuse	7
	2.4.5	Medication abuse	7
	2.4.6	Usage of modern Tech	7
	2.4.7	Recreation	7
	2.4.8	Study	7
3		DESIGN AND METHODOLOGY	9
	3.1	Web Portal	9
	3.2	Web App Sections	9
	3.3	Topics	9
	3.4	Research	9
	3.5	References	9
	3.6	Methodology	10
	3.6.1	Developing Web Based Recommendation system	10
	3.6.2	Problem Identification	10
	3.6.3	Conceptualization	10
	3.6.4	Feasibility Analysis	10
	3.6.5	System Development	11
	3.6.6	UI Development	11
4		IMPLMENTATION	20
	4.1	Overview	20
	4.2	Front-end Development	22
	4.3	Back-end Development	35
5		TESTING AND EVALUATION	44
	5.1	General Description	44

5.2	Test Plan	44
5.3	Testing Modules	44
5.3.1	Registration	44
5.3.2	Login	44
5.3.3	Get Recommendations	44
5.3.4	Posts	44
5.3.5	Logout	45
6	CONCLUSION AND FUTURE WORK	47
6.1	Conclusion	47
6.2	Future Work	47
	REFERENCES	48