

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
“Jnana Sangama”, Belagavi-590018, Karnataka, INDIA



An Internship Report

on

FULL STACK DEVELOPER

Submitted in partial fulfillment of the requirement for the award of the degree of

Bachelor of Engineering

in

Computer Science and Engineering

Submitted by

AMRUTHA K

1GA18CS194

Internship Carried out at

ELDERSINDIA

Internal Guide

Name: Anitha K

Designation: Associate Professor

External Guide

Name: Vinod Patter

Designation: Technological Lead



Department of Computer Science and Engineering
(Accredited by NBA 2019-2022)

GLOBAL ACADEMY OF TECHNOLOGY
Rajarajeshwari Nagar, Bengaluru - 560 098
2021 – 2022

GLOBAL ACADEMY OF TECHNOLOGY

Department of Computer Science and Engineering



CERTIFICATE

Certified that the Internship Work Entitled "**FULL STACK DEVELOPER**" carried out by **AMRUTHA K**, bearing USN **1GA18CS194**, bonafide student of Global Academy of Technology, is in partial fulfillment for the award of the Bachelor of Engineering in Computer Science and Engineering from Visvesvaraya Technological University, Belagavi during the year 2021-2022. It is certified that all the corrections/suggestions indicated for Internal Assessment have been incorporated in the report submitted in the department library. The report has been approved as it satisfies the academic requirements in respect of the Internship work prescribed for the said Degree.

Dr. Anitha K
Associate Professor
Dept. of CSE
GAT, Bengaluru

Dr. Bhagyashri R Hanji
Professor & HOD
Dept. of CSE
GAT, Bengaluru

Dr. N. Rana Pratap Reddy
Principal
GAT, Bengaluru

Name of the Examiners

Signature with date

1. _____

2. _____

GLOBAL ACADEMY OF TECHNOLOGY

Department of Computer Science and Engineering



DECLARATION

I, **AMRUTHA K**, bearing **USN 1GA18CS194**, student of Eighth Semester B.E, Department of Computer Science and Engineering, Global Academy of Technology, Rajarajeshwari Nagar Bengaluru, declare that the Internship Work entitled "**FULL STACK DEVELOPER**" has been carried out by me and submitted in partial fulfillment of the course requirements for the award of degree in Bachelor of Engineering in Computer Science and Engineering from Visvesvaraya Technological University, Belagavi during the academic year 2021-2022. The matter embodied in this report has not been submitted to any other university or institution for the award of any other degree.

AMRUTHA K **1GA18CS194**

Place: Bengaluru

Date: 27/04/2022



Tharsha Ventures Private Limited

No.28/A, 3rd Main Road, RMS Colony, AECS Layout, Sanjaynagar,
Bangalore - 560094

Phone : 91-9845211742

TO WHOMSOEVER IT MAY CONCERN

Date: 03-10-2021

This is to certify that Amrutha K, from department of CSE, BE, student of Global Academy of Technology, has successfully completed her internship with Tharsha Ventures Private Limited during the period August 3rd 2021 to October 3rd 2021.

During the period, she handled integration of Google Fit API in ReactJS, visualizing health data with various charts and widgets and WordPress website.

During the course of internship, she has shown great amount of responsibility, sincerity and a genuine willingness to learn and zeal to take on new assignments & challenges. In particular, her coordination skills and communication skills are par excellence and her attention to details is impressive.

We wish her all the very best for her future.
With regards,

For and on behalf of the Company

A handwritten signature in blue ink, appearing to read "Shagufta Fatima".

Name: Shagufta Fatima

Designation: HR&Admin

ACKNOWLEDGEMENT

The satisfaction and the euphoria that accompany the successful completion of any task would be incomplete without the mention of the people who made it possible. The constant guidance of these persons and encouragement provides, crowned our efforts with success and glory. Although it is not possible to thank all the members who helped for the completion of the internship work individually, I take this opportunity to express my gratitude to one and all.

I am grateful to management and our institute **GLOBAL ACADEMY OF TECHNOLOGY** with its very ideals and inspiration for having provided me with the facilities, which made this, work a success.

I express my sincere gratitude to **Dr. N. Rana Pratap Reddy**, Principal, Global Academy of Technology for the support and encouragement.

I wish to place on record, my grateful thanks to **Dr. Bhagyashri R Hanji**, HOD, Department of CSE, Global Academy of Technology, for the constant encouragement provided to me.

I am indebted with a deep sense of gratitude for the constant inspiration, encouragement, timely guidance and valid suggestion given to me by my guide **Dr Anitha K, Associate Professor**, Department of CSE, Global Academy of Technology.

I am thankful to **EldersIndia** for providing me an opportunity to carry out the internship work in their esteemed organization.

I am thankful to all the staff members of the department for providing relevant information and helped in different capacities in carrying out this project.

Last, but not least, I owe my debts to my parents, friends and also those who directly or indirectly have helped me to make the project work a success.

TABLE OF CONTENTS

Sl. No	Particulars	Page. No
1.	Acknowledgement	I
2.	Table of contents	II
3.	List of Figures	III
4.	Chapter 1: Company Overview	1
5.	Chapter 2: Department Overview	4
6.	Chapter 3: Project Description	5
7.	Chapter 4: Reflection Notes	8
8.	Conclusion	9
9.	References	10

LIST OF FIGURES

Figure No.	Figure Name	Page. No
3.1	Website Home Page using WordPress	6
3.2	React Charts on the local host	6
3.3	Laravel Database manager	7

CHAPTER 1

COMPANY OVERVIEW

1.1 INTRODUCTION

EldersIndia advocates for #seniorcare, addressing the need for elderly care services that remain largely unstated. Elderly family members are left behind at home or another location without adequate care when people juggle work and home responsibilities. Besides the increased anxiety and stress levels, employees may have to take frequent leaves, have higher travel expenses, and often run the risk of losing their jobs. High attrition rates cause companies to suffer from loss of productivity and incur huge overheads in hiring and retention. Both the organization and the individual become less efficient as a result of this vicious cycle. Corporates, employees, their families and service providers come together on this unique EldersIndia initiative to improve quality of life, support productivity and optimize costs in any organisation. Our ready solution of professional Senior Care Services empowers senior citizens to lead comfortable and independent lives; increases employee responsibility towards elderly family members with ease; helps corporates to support employees in the workplace with minimum investment of time and money so that all get the desired outcome.

1.2 OVERVIEW OF THE COMPANY

EldersIndia is a unique initiative bringing corporates, employees, their senior family members and service providers under one platform with an aim to:

- Improve the quality of life of elders
- Help corporate employees manage their responsibilities towards elderly family members
- Assist corporates to support employees in the workplace

Accessible anywhere, anytime. Corporates, employees, their families and service providers come together on this unique EldersIndia initiative to improve quality of life, support productivity and optimize costs in any organisation. Our ready solution of professional Senior Care Services empowers senior citizens to lead comfortable and independent lives; increases employee responsibility towards elderly family members with ease; helps corporates to support employees in the workplace with minimum investment of time and money so that all get the desired outcome.

1.3 PRODUCTS AND SERVICES

- HealthCare
 - Nursing care
 - Nutritional Counselling
 - Physiotherapy services
 - Home Hearing Check up
 - Doctor-on-call
 - Nursing Attendant care
 - Dental care
 - Lab sample collection and Diagnostics services
 - Counselling sessions
 - Vaccinations
- Elderly Assistance
 - Mobility service
 - Bill payment Assistance
 - Accompanied in station and out station
 - Tech support
- Emergency Response
 - 24/7 on Call support
 - Immediate on ground assistance and Coordination
 - Medical/Personal and On-road Emergencies
- Safety & Security
 - Smart home solutions
 - Fire and Gas leak alarms
 - Video door phones
 - App based monitoring
- Wealth Management
 - Financial Planning
 - Retirement Solutions
 - Investment Planning & Management

- Estate Planning
- Insurance Advisory
- Recreational Services
 - Customized international and domestic tours
 - Online magazine subscription
 - Club memberships
 - Social connect offline events and activities

CHAPTER 2

DEPARTMENT OVERVIEW

2.1 INTRODUCTION

Tharsha Ventures PVT LTD is the legal name of the company. EldersIndia and EldersWealth are the primary subsidiaries of this PVT LTD. I was hired as a technological intern at EldersIndia to help design and improve their websites. EldersIndia focuses mostly on India's senior folks and their health. EldersWealth is primarily concerned with the financial affairs of senior citizens. Corporates, employees, their families and service providers come together on this unique EldersIndia initiative to improve quality of life, support productivity and optimize costs in any organisation. Our ready solution of professional Senior Care Services empowers senior citizens to lead comfortable and independent lives; increases employee responsibility towards elderly family members with ease; helps corporates to support employees in the workplace with minimum investment of time and money so that all get the desired outcome.

2.2 WORKING DEPARTMENT OF THE COMPANY

The technical team and Operational team are the two working departments of EldersIndia. As a full-stack developer, I was a member of the technical team. My main task was to meet the company's needs, which were allocated by the CTO, who was a GAT alumnus. The operational team had to work with the company's clientele. The technical department had to work with the company's technical assets. Software development Interns, Omprakash as Operations Head, Rajesh Rathod as Operation Executive Head and Operational Executive Team Members. Tech team support teams are responsible for handling installation errors, user issues and any other technical problem that prevents the customer from using your product. In essence, tech support focuses on helping customers to use a product more effectively. An IT operations team is responsible for many functions. The team improves technology, solves active problems across the business, and proactively enhances company systems.

CHAPTER 3

PROJECT DESCRIPTION

3.1 INTRODUCTION

React (also known as React.js or ReactJS) is a free and open-source front-end JavaScript library for building user interfaces based on UI components. React Native is a JavaScript framework for writing real, natively rendering mobile applications for iOS and Android. WordPress (WP, WordPress.org) is a free and open-source content management system (CMS) written in PHP and paired with a MySQL or MariaDB database. Laravel is an open-source PHP framework, which is robust and easy to understand.

3.2 OBJECTIVES OF THE PROJECT

The objective of the work assigned are:

- **To build websites using WordPress, React JS, Laravel and React native** - React (also known as React.js or ReactJS) is a free and open-source front-end JavaScript library for building user interfaces based on UI components. React Native is a JavaScript framework for writing real, natively rendering mobile applications for iOS and Android. WordPress (WP, WordPress.org) is a free and open-source content management system (CMS) written in PHP and paired with a MySQL or MariaDB database. Laravel is an open-source PHP framework, which is robust and easy to understand.
- **Designing the UI of the website** – UX (user experience) and UI (user interface) are two interdependent terms. While UI generally deals with the interaction between users and computer systems, software and applications, UX deals more generally with a user's overall experience with a brand, product or service.
- **Connecting the frontend to backend using Laravel** – Laravel is a server-side PHP framework; with it you can build full-stack apps, meaning apps with features typically requiring a backend, such as user accounts, exports, order management, etc.
- **Using different libraries to build dynamic charts in React JS** – A dynamic chart range is a data range that updates automatically when you change the data source. This dynamic range is

then used as the source data in a chart. As the data changes, the dynamic range updates instantly which leads to an update in the chart.

- **Connecting Google Fit to an API** – An API (Application Programming Interface) is a set of functions that allows applications to access data and interact with external software components, operating systems, or microservices. To simplify, an API delivers a user response to a system and sends the system's response back to a user.

3.3 SNAPSHOT/RESULTS

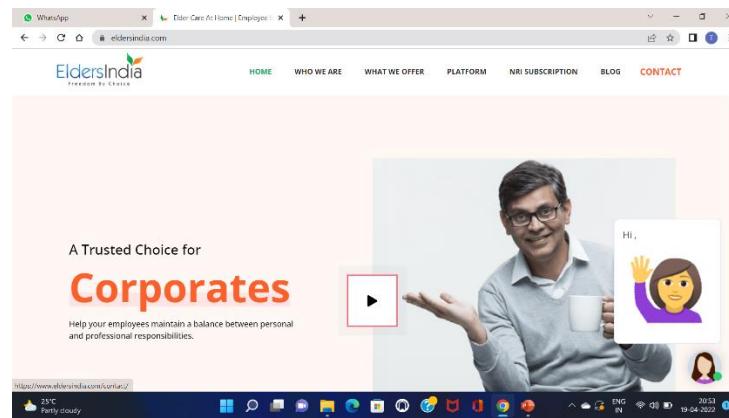


Fig. 3.1: Website Home page using Word Press

The above snapshot represents the Home Page of the website which was build using Word Press. All the components will be predefined in the word press website wherein the developer should use those components and start building the website which look aesthetically pleasing.

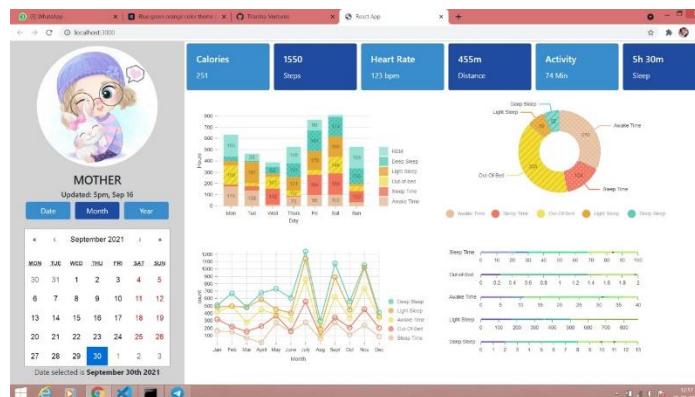


Fig. 3.2: React Chart on local host

The above snapshot represents the Local Host; wherein we were trying to connect Google Fit to an API. The charts above was build using a wide variety of React JS libraries. Also the whole design was built using re-useable components which makes code re-useability and code base efficient.

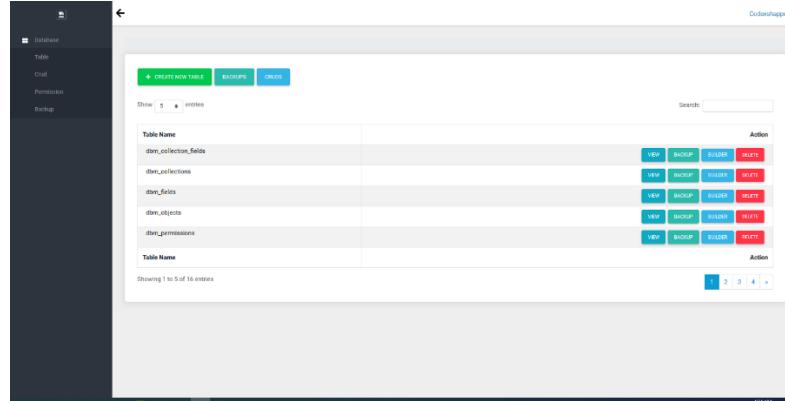


Fig. 3.3: Laravel Database manager

The above snapshot represents the Laravel Database manager which is used to connect the frontend to the database. It is a serverside PHP framework used at the backend.

CHAPTER 4

REFLECTION NOTES

4.1 EXECUTIVE SUMMARY

- Got exposed to IT fields
- Became strong in React JS
- Learnt people management and time management
- Exposed to new skills like React Native, Laravel and Wordpress

4.2 TECHNICAL EXPERIENCE

Got an hold on below languages and it was a knowledge enriching experience.

- React JS
- WordPress
- React Native
- Laravel

4.3 SOFT SKILLS

This internship also helped me to upgrade my soft skills such as.

- Time management
- Team work
- Communication
- Creativity
- Adaptability

CONCLUSION

An internship is a professional learning experience that offers meaningful, practical work related to a student's field of study or career interest. An internship gives a student the opportunity for career exploration and development, and to learn new skills. It offers the employer the opportunity to bring new ideas and energy into the workplace, develop talent and potentially build a pipeline for future full-time employees. It was great working with EldersIndia which indirectly helped me serve our nation. Also there were a lot of challenges which I could overcome successfully.

- I became strong in React JS
- Usage of GitHub.
- Got explore to React Native, Laravel and WordPress

REFERENCES

- [1] <http://ijrra.net/Vol5issue1/IJRRA-05-01-27.pdf>
- [2] <https://ieeexplore.ieee.org/abstract/document/9141070>
- [3] <https://ijisrt.com/assets/upload/files/IJISRT20NOV485.pdf>
- [4] <https://www.eldersindia.com/>
- [5] <https://medium.com/@kimtnguyen/relational-database-schema-design-overview-70e447ff66f9>
- [6] <https://bestofreactjs.com/repo/OvalMoney-react-native-fitness-react-react-integration>
- [7] <https://restfulapi.net/http-status-codes>
- [8] https://link.springer.com/chapter/10.1007/978-1-4842-1245-5_1
- [9] <https://ieeexplore.ieee.org/abstract/document/8869134>
- [10] <https://ieeexplore.ieee.org/abstract/document/8263583>