INTERNSHIP REPORT

SIDHANT KARBOTKAR

1917

REPORT OF INTERNSHIP AT
GYTWORKZ PVT LTD

SUBMITTED BY

Mr. SIDHANT KARBOTKAR

MCA SEMESTER VI

1917

UNDER THE GUIDANCE OF

Mr. Gandhar Sanzagiry	Mr. Gouse Jani Mohammed
Principal Architect	Project Manager
GYTWORKZ PVT. LTD.	GYTWORKZ PVT. LTD.

GOA BUSINESS SCHOOL

Goa University

Taleigao Plateau Goa– 403206

June 2022

GOA UNIVERSITY

May 31, 2022

CERTIFICATE

This is to certify that Mr. Sidhant Karbotkar (Roll No: 1917), a final year student of Goa University has successfully completed the project "CUSTOMER RELATIONSHIP MANAGEMENT PLATFORM - Frontend development and web development frameworks" at GYTWorkz Technologies Pvt. Ltd, during his internship from 10-Jan-22 to 31-May-22.

During the internship we found Sidhant to be proactive. He was self-motivated and completed all assigned tasks with exceptional ownership. He has shown consistent progress in his technical ability and has keen eye for detail.

We at GYTWorkz wish him a successful career ahead!

Yours sincerely
GYTWorkz Technologies Pvt Ltd

GOA BUSINESS SCHOOL

CERTIFICATE OF EVALUATION

This is to certify that Mr. Sidhant Karbotkar has been evaluated for the project work titled "Report of Internship Done at GYTWorkz Technologies Pvt Ltd" undertaken at GYTWorkz Technologies Private Limited, Hyderabad, in partial fulfillment for the award of the degree in Master of Computer Application.

_____   _____

Examiner 1   Examiner 2

_____

Dean, Goa Business School,

Goa University

Place :

Date :

Acknowledgement

My sincere gratitude to Mr.Bhasker Reddy Kottapally (CEO, GYTWorkz), Mr. Gandhar Sanzagiry (Principal Architect, GYTWorkz), Mr. Bharadwaj Sunkenapelly (Human Resources, GYTWorkz) and Mrs. Rachana Kothapally (Human Resources, GYTWorkz) for giving me this opportunity to work with such an incredible and hardworking team at GYTWorkz.

My greatest appreciation to Mr. Gouse Jani Mohammed (Project Manager, GYTWorkz) for being an excellent mentor and assigning me with interesting and challenging tasks and giving me constant motivation, advice and guidance.

I would again like to express my deepest gratitude and special thanks to all my team members and colleagues, who in spite of being busy with their duties, took time out to hear, guide and keep me on the correct path. Each of them helped me to go through a challenging environment which helped me to learn and grow.

I would like extend my gratitude to Ms. Yma Pinto (Program Director, MCA, Goa Business School), Mr. Ramdas Karmali (Prof and TPO, DCST, Goa University), and Mr. Jarret Fernandes (Prof, DCST, Goa University) and all the teaching and non-teaching staff of DCST for their constant encouragement and support.

Content

DISCLAIMER

THE INFORMATION CONTAINED IN THIS REPORT IS THE WORK DONE BY THE AUTHOR AS PART OF THE INDUSTRIAL TRAINING PROGRAMME OF MCA, GOA UNIVERSITY. THE DATA AND SCREENSHOTS ADDED IN THIS REPORT ARE SOLELY FOR THE REFERENCE PURPOSE ONLY. IT DOES NOT IN ANY WAY REPRESENT THE ACTUAL DATA USED FOR THE PROJECTS. CLIENT NAMES, CLASS DIAGRAM, ER-DIAGRAM AND WORK FLOW DETAILS ARE NOT GIVEN IN THE REPORT AS IT IS AGAINST THE COMPANY'S PRIVACY POLICY.

INTRODUCTION

This report is a short description of my full-time internship at GYTWorkz.

I joined as an Intern at GYTWorkz on 10th January 2022 and have been here since then. This report contains necessary information about the organization, the projects I worked on and the other tasks and special training I completed in this internship period.

In the chapters that will follow, I will talk about the company, the work here, the culture, etc. Then, I shall elaborate on the projects I worked on, a brief information about the projects, and the tasks I completed.

This report highlights my learning experience and my contributions to the organization as an intern. This will describe the knowledge that I gained by successfully completing the tasks that were assigned to me.

I'll also be talking about the tools and technologies that were used followed by my internship timeline.

I shall conclude by sharing my experience and how it has helped me to grow, both, on the personal and professional front.

COMPANY PROFILE

Name of Company : GYTWorkz Pvt Ltd

Corporate Headquarters : The Platina, A Block , 3rd floor, 303, Gachibowli, Hyderabad, Telangana 500032

Phone Number : +91 98496 89798

Email id : support@gytworkz.com
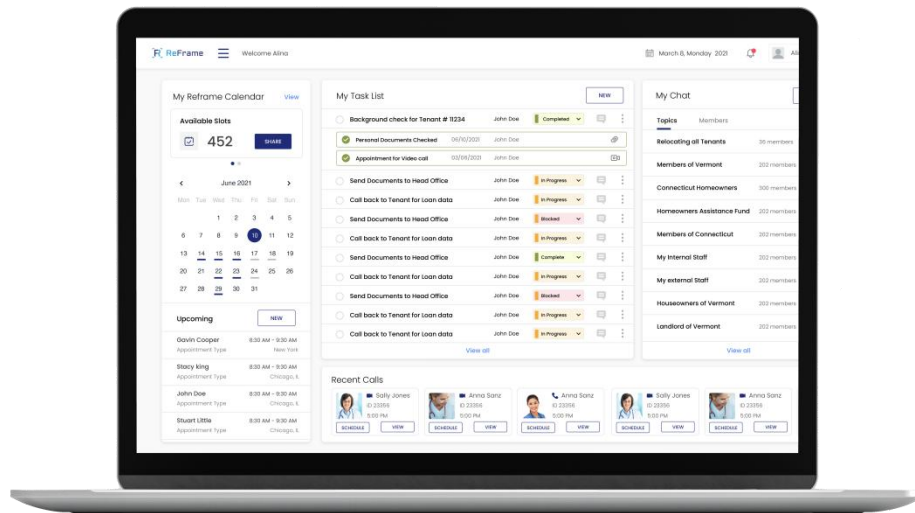
Website : www.gytworkz.com

GYTWorkz is a product engineering company of a committed team with one strong agenda : Design and develop for the cloud. We clearly understand : "Cloud is not a location, It is a Method".

Started in 2019, we have strongly poised to partner with startup founders to make their ideas a reality. GYTWorkz has thus far helped multiple startup founders visualise their ideas.   We have been successfully playing the role of a tech co-founder for various startups.

Startups we are associated with : FIIFI, ReFrame (Engage), Intro, IOTRL. Beyond startups, GYTWorkz has delivered solutions in Application Engineering (NodeJS, Java), Mobile App Development (Android, IOS, React Native, Flutter), Data Platforms (Pipelines, Analytics, BI) for global companies successfully.
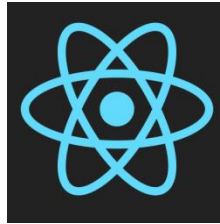
Project Reframe Engage Unleashed

Overview

Reframe Engage is a platform that enables one-stop context-aware communication and collaboration for any industry looking to improve and streamline their customer interactions for any business services, while driving great customer experiences. This platform empowers employees to deliver effectively from anywhere, anytime using any mobile device. Reframe Engage Unleashed is a new and updated version which is in development in React framework for front end.
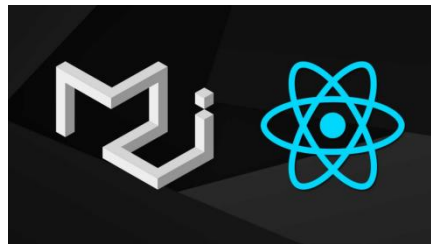
Tools and Technologies Used :

1) React

ReactJS is a declarative, efficient, and flexible JavaScript library for building reusable UI components. It is an open-source, component-based front end library which is responsible only for the view layer of the application. It was initially developed and maintained by Facebook and later used in its products like WhatsApp & Instagram.

2) Material UI

MUI offers a comprehensive suite of UI tools to help you ship new features faster. Start with Material UI, our fully-loaded component library, or bring your own design system to our production-ready components.

3) DayJS

Day.js is a minimalist JavaScript library that parses, validates, manipulates, and displays dates and times for modern browsers with a largely Moment.js-compatible API.
All API operations that change the Day.js object will return a new instance instead.This helps prevent bugs and avoid long debugging sessions.
Day.js has great support for internationalization. But none of them will be included in your build unless you use them.

4) ES-lint and Prettier Code Formatter

When you develop alone, the code format(space, tab, quotation, etc) is not a big problem. However, when you work with other programmers, each programmer can use a different code format. If the code format is different, it's hard to read and understand the code and it's possible to make bugs.

So for that we configured :

ESLint is a tool for identifying and reporting on patterns found in JavaScript code, with the goal of making code more consistent and avoiding bugs.

Prettier is a code formatter to make the same style of the code by predefined the code format.

5) Git

Git is a free and open source distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

6) Webpack Module Bundler

At its core, webpack is a static module bundler for modern JavaScript applications. When webpack processes your application, it internally builds a dependency graph from one or more entry points and then combines every module your project needs into one or more bundles, which are static assets to serve your content from.

7) Twillio

Twilio provides programmable communication tools for making and receiving phone calls, sending and receiving text messages, and performing other communication functions using its web service APIs.
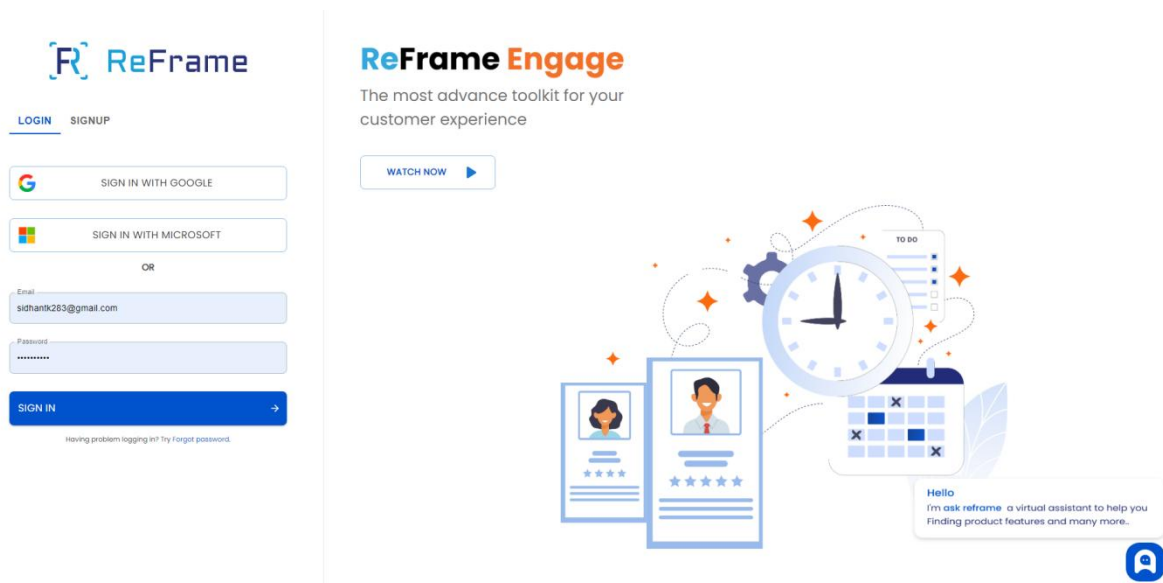
My Contribution :
On boarding pages

The on boarding flow is the first thing a user will go through when he opens the system. On boarding screens consisted of :

1) Homepage with Login and Sign up form tabs with proper validation

2) Email Template for email verification

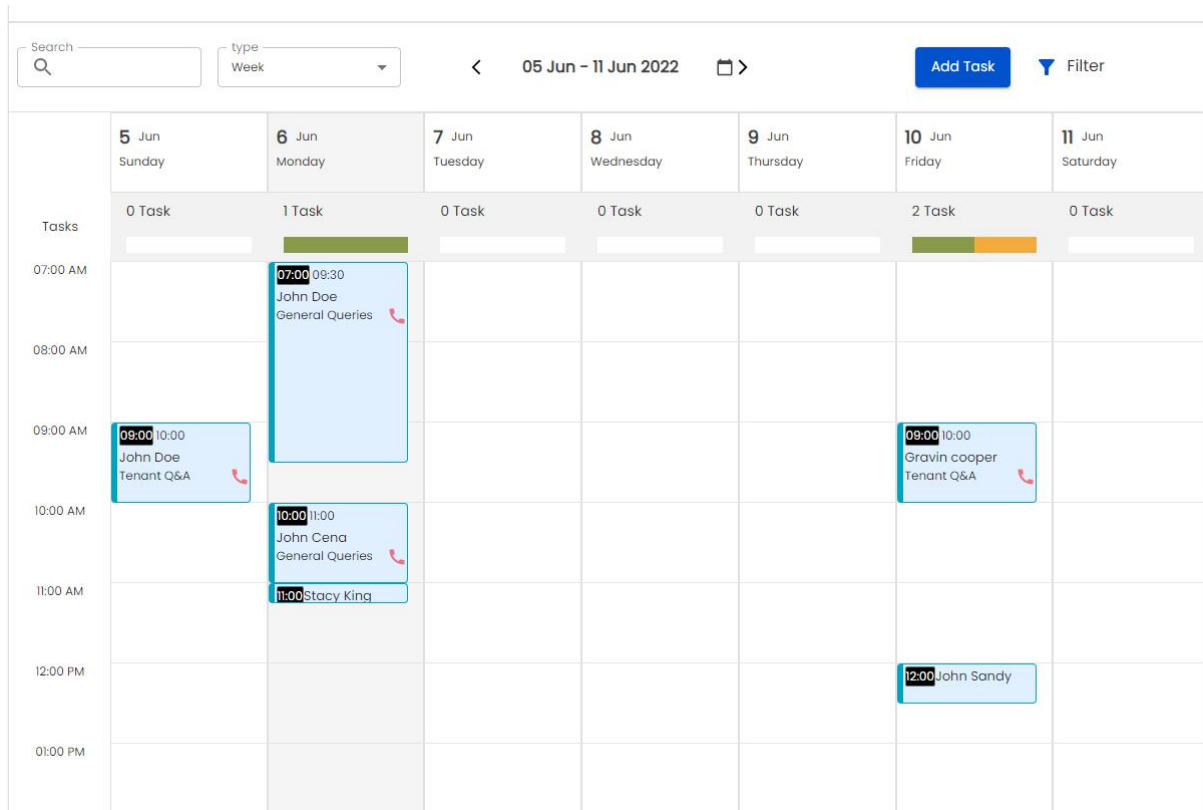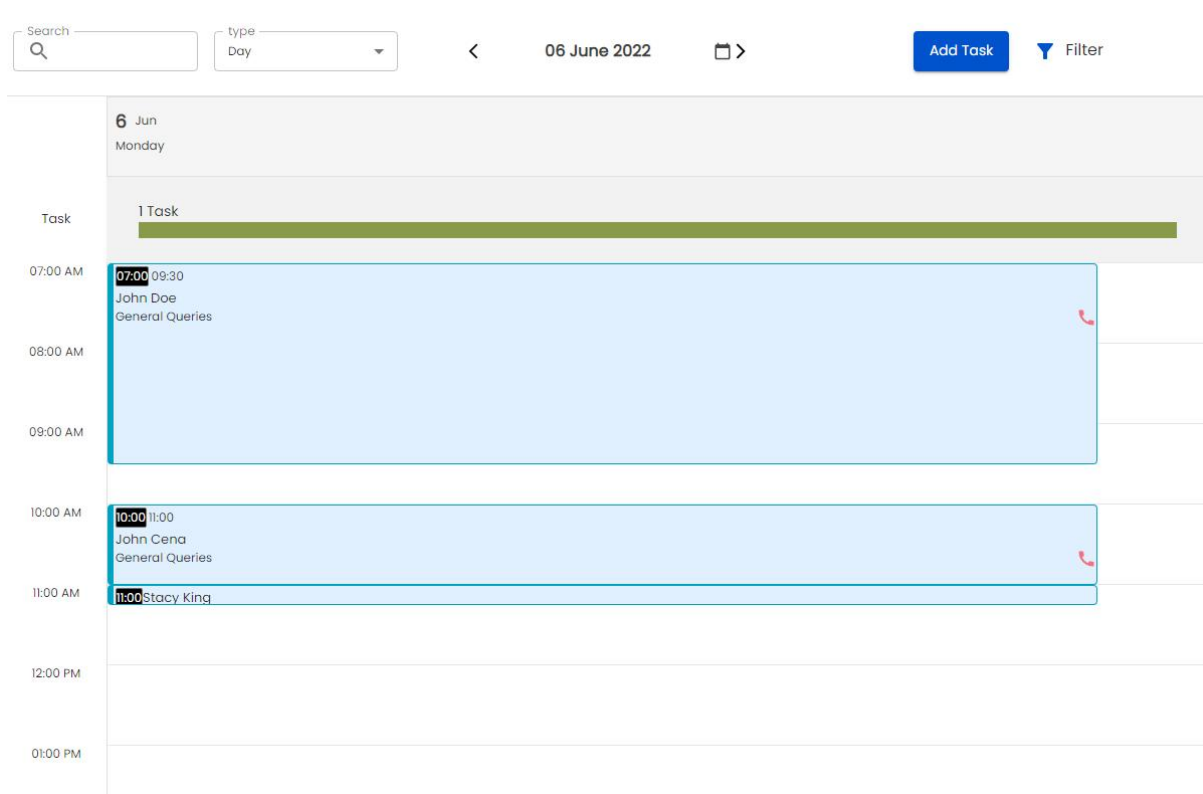3) Create password for verified user

4) Pricing page

Calendar

For the system any calendar library or google calendar API could have been done the job, but that wouldn't have been flexible or as per the use cases. So myself and my colleague Mr. Suman Ghosh were assigned to develop a calendar from scratch for the system.

For creating and maintaining the calendar dates we are using a library called as dayjs. Also had to display tasks and engagements on the calendar.
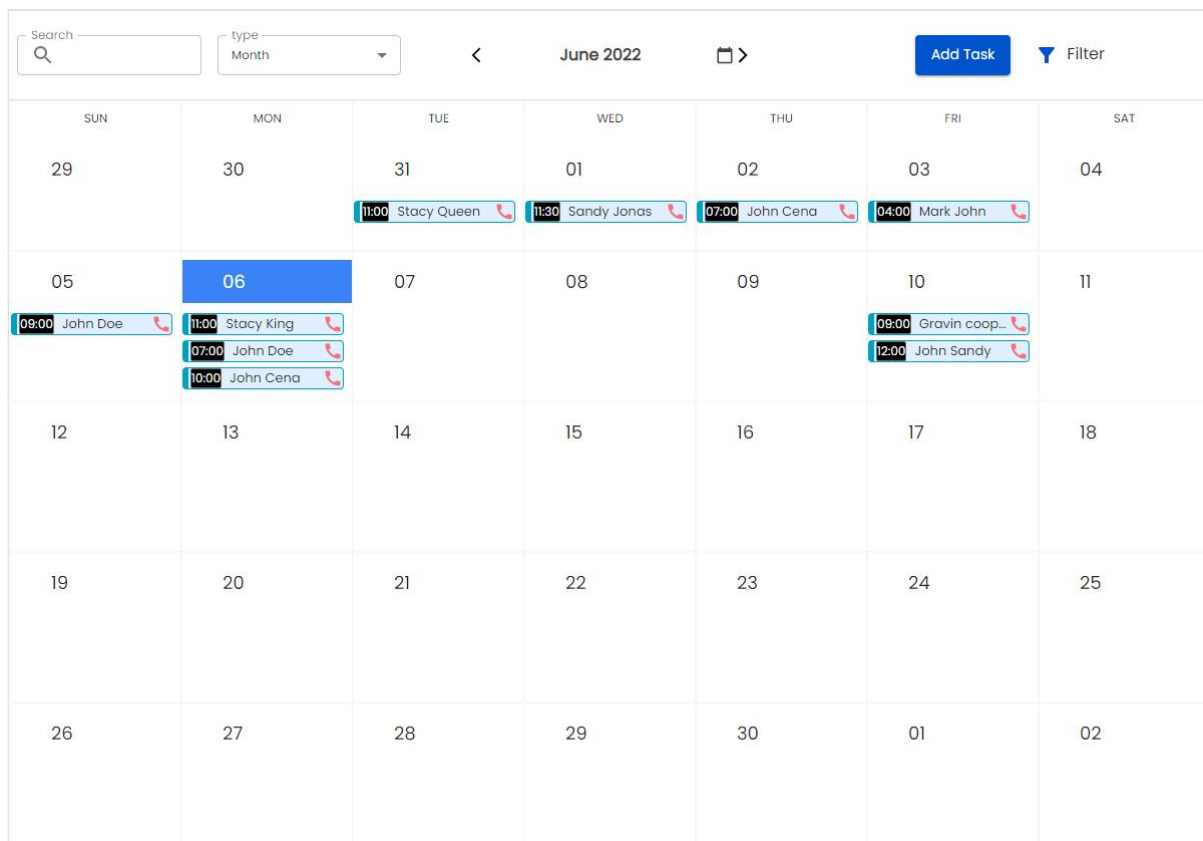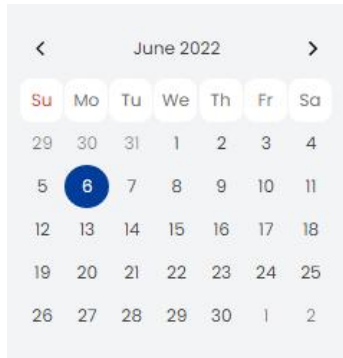
Week View :

Day View :

Month View :

Sidebar Calendar :

SIde Drawer Calendar :

Creating and Displaying Engagements

In Engagements, I had worked on the functionality of adding the engagement details with validation from form to the local state data array created using context hook.

Also the engagement cards inside the calendar I have created. The cards sizes and position vary according to the start time and end time of the engagement.

Tasks Creating and Displaying

Similar to engagements, Tasks had to be added and displayed on the calendar. In this I had created the task display dialogue box.

Also then added the functionality of added initial tasks data from stubs.

Other Tasks :

Making All the Pages Responsive

Added responsiveness till mobile view to the Dashboard, Calendar, CRM and accounts tabs using material ui and css media query.

Project Architecture

Added some modules and features to have a good project architecture. Modules added :

- Router (navigation)

    - Adding Private and Public route

    - Creating 404 page

- Multi-environment setup (create deployable builds pointing to specific Database environments using environment variables, without having all environment config bundled in code.)

- ES Lint

- Prettier code formatter

Certifications and Training Completed under Internship and Self Study

Udemy Certifications:

1) React - The Complete Guide
This course had the complete guided videos of React concepts of version 18 including hooks and redux. This course helped a lot to brush up my React skills.

2) Micro-frontends with React: A Complete Developer's Guide
This course features hundreds of videos with dozens of custom diagrams to help understand how micro-frontends work. Explanations and many interesting practical examples of the fundamentals of building dynamic and live web apps using micro-frontends.

Project Timeline

JANUARY

Week 1 :

◆ On boarding And Introduction

◆ Git Usage For Project Workflow

Week 2 :

◆ Project Assigned

◆ Understanding Requirements And Scope

◆ Learning React From Udemy

Week 3 :

◆ Micro Frontend With React Course From Udemy

FEBUARY

Week 4 :

◆ Learning Typescript With React

◆ Going Through The Project Code Base

Week 5 :

◆ Developing a Homepage For The Product

◆ Understanding The Practices And Coding Standards And Refactoring The Code Accordingly

Week 6 :

◆ Developing On Boarding Screens - Sign In /Sign Up

◆ Developing On Boarding Screens - Email Template For Email Configuration

Week 7 :

- ◆ Developing On Boarding Screens - Email Template For Email Configuration
- ◆ Developing On Boarding Screens - Create Password

MARCH

Week 8 :

- ◆ Developing On Boarding Screens - Pricing Page

Week 9 :

- ◆ Refactoring The On Boarding Screens Code Base

Week 10 :

- ◆ Calendar Front End - Layout
- ◆ Calendar Front End - Side Calendar For Sidebar
- ◆ Calendar Front End - Week View
- ◆ Create New Engagement

Week 11 :

- ◆ Calendar Front End - Month View
- ◆ Calendar Front End - Day View

APRIL

Week 12 :

- ◆ Refactoring Code Base
- ◆ Functionality Using React Hooks

Week 13 :

- ◆ Fixing New Engagement Dialogue Box
- ◆ Day Side Drawer
- ◆ Refactoring Code For Day Side Drawer

Week 14 :

- Refactoring Tasks Code
- Creating Display Task Dialogue Box

Week 15 :

- Task Status Change Functionality
- Researching On Formatting On Pre-Commit
- Adding Husky,Es-Lint And Prettier To Format On Pre-Commit.

MAY

Week 16 :

- Fixing The Existing Screen's Responsiveness Till Mobile View
- Adding Custom Scroll Bars For The System
- Replacing The Forms Of New Engagement Dialogue And On Boarding Screens With Custom Forms Inputs Created In Project, And Using Formik Validation For Them.

Week 17 :

- Research On Project Architecture
- Creating Modules For Completed Components
- Adding Prettier Config File For Vs Code To Format The Code Uniformly

Week 18 :

- Creating Multi Environment Variables For The Project
- Creating Http Interceptor
- Creating 404 Page

Week 19 :

- Getting Data For Tasks From Stubs

◆ Code Refactoring

◆ Adding Es-Lint To The Project

◆ Adding Custom Private And Public Routes

My Reflections on Internship

During this period of 5 months doing my internship here at GYTWorkz, I had been working under the title of "Full Stack Consultant". While I was able to assist the team using my web development knowledge, my overall skill of being a team player excelled to a great extend.

I was always curious about how the actual project development takes place which I got to experience here. Also learnt that learning and keeping ourselves up-to-date with new technologies is as important as working on any technology. As my internship draws to a close and I reflect back on all I have learned, I realize what an excellent experience this has been. I gathered much knowledge in the classroom, but a hands-on approach has been invaluable. It has served as a beneficial ending to my formal education.

To conclude, this internship has inspired me to pursue a career in the field of front end web development and to excel in it. It was a great learning experience and I consider myself honored for being a part of GYTWorkz Pvt. Ltd.

References

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- https://mui.com/

- https://www.w3schools.com/

- https://webpack.js.org/