



INTERNSHIP REPORT

RUDRESH D. GAWAS

1914

Helix Tech Info Systems Pvt. Ltd.

Goa University

REPORT OF INTERNSHIP DONE AT HELIX TECH INFO SYSTEMS PVT. LTD.

SUBMITTED BY :

RUDRESH D GAWAS

1914

UNDER THE GUIDANCE OF

Mr. Manoj K.

(Senior Software Developer, Helix tech)

Mr. Saish Shinde

(Senior Software Developer, Helix tech)

Mr. Niranjana Naik

(CTO, Helix tech)

INTERNSHIP CERTIFICATE



Date: 04th May 2022

To Whomsoever It May Concern

Dear Sir/Ma'am,

It is our pleasure to write about Mr. Rudresh Gawas, who has worked with Helix Techin Info Systems Pvt. Ltd. (hereinafter referred to as "HELIX") in the capacity of Software Developer Intern – PHP from 13/01/2022 – till date.

During the aforementioned tenure of his work here, Mr. Rudresh remained involved in his work with determination and sincerity. We found him active and competent in executing all assigned tasks.

Sincerely,

A handwritten signature in black ink, appearing to read "V. Rodrigues", written in a cursive style.

Ms. Valzera Rodrigues
HR/Admin Executive

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GOA BUSINESS SCHOOL

CERTIFICATE OF EVALUATION

This is to certify that **Mr. Rudresh D. Gawas** has been evaluated for the project work titled “**Report of Internship done at Helix Tech Info Systems Pvt Ltd.**” undertaken at

Helix Tech Info Systems Pvt Ltd, Porvorim, Goa in partial fulfilment for the award of the degree in Master of Computer Application.

Examiner 1

Examiner 2

Place: Goa University
Date: 6th June 2022

Dean, GBS, Goa University

Acknowledgement

Interning in a company is a golden opportunity for learning and self-development specially to have so many wonderful people lead me through this internship period. The internship wouldn't be complete without expressing my gratitude and appreciation to all the people who made it possible.

I would like to thank Mr. Kunal Kerkar (CEO, Helix Tech) for giving me the opportunity to intern at Helix Tech.

My sincerest gratitude to Mr. Niranjana Naik (CTO, Helix Tech), Mr. Saish Shinde (Senior Software Developer, Helix Tech) and Mr. Manoj K (Senior Software Developer, Helix Tech) for being my mentor and giving me the necessary guidance and support.

I would like to extend my gratitude to Ms. Valzera Rodrigues (HR, Helix Tech) for always helping me out whenever I was in need.

I thank Mr. S Baskar (HOD, MCA, Goa University), Mr. Ramdas Karmali (Prof. and TPO, MCA, Goa Business School, Goa University), Mr. Jarret Stevan Anthony Fernandes (Assistant Prof, MCA, Goa Business School, Goa University) and all the faculty of MCA, Goa University for their constant encouragement and support during the project work.

I would like to thank my family and friends for helping and showing the love, support and encouragement during this internship period cannot be forgotten.

Finally, I would like to express my gratitude towards the Helix Tech family who were always ready to help me and guide me in all aspects of life. They have transformed me into a new and renewed person ready to face head-on any challenges that come my way.

-Rudresh D. Gawas

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Introduction

This report is a short description of my internship at Helix Tech as Software developer. I joined as an Intern at Helix Tech on 13th January 2022 and have been here since then.

This report contains necessary information about the organization, the projects and mini projects I worked on and the other tasks and special trainings 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, the modules I built and the tasks I completed in those modules. 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

In 2013, when the Indian start-ups had just started gaining momentum & Smartphones were picking up faster than ever, two new IT graduates started building mobile apps, making the most of this wave. Five years since and they've consulted close to 500+ Apps for over 100 clients across 6 continents. Their goal is simple – Amaze our clients by delivering high quality software which run smoothly, strategically & predictably.

Today, Helix Tech is an award winning mobile first technology partner to big and small entities, providing them end-to-end turnkey software solutions. It's voted as the company of the year by CIO review & has ranked among the top 30 companies to watch out for by Silicon Review.

They're running a non-profit initiative called HT for STUDENTS, where they educate along with their commitment towards being a practice school station for BITS. It comprises of training students in app development every summer at their HQ in Goa.

App Strategy

They help you see beyond your horizons & that's the pinnacle of their product design at Helix Tech. They've planned, developed & successfully launched hundreds of apps from scratch. They dig deep into your business model, consumer challenges, and positioning to help you create a product that produces unique value. Their goal is always to convert your vision into reality in the most engaging way to ensure your customers are experiencing the best.

Mobile Design

Turning ideas into visually polished and smooth mobile apps comes as second nature to them. With their deep expertise in design and technology, they understand how to achieve your strategic goals. Their designers have mastered the art of delivering delightful products with exceptional interactions and seamless experience.

App Development

They bring the best mobile experiences by hiring the best talent that they can find. This way, when they put them together in a team, it results in an atmosphere where with different perspectives and challenges, everyone learns swiftly to deploy customized solutions for every project. Each project ensures personal development as well as the capability of the team.

Mobile Marketing

No matter what platform your users are on, their apps are carefully crafted to give your users a remarkable experience. This is a result of endless hours spent on product strategy, design and the functionality of your mobile app. Their apps are beautifully engineered which deliver measurable business outcomes.

App Support

At Helix Tech, they understand how important it is for a business to have an app that runs smoothly and in an expected manner, so they provide full support through our highly qualified and trained team.

Once the app has launched, it needs constant monitoring and updating. They offer 4 different support plans to choose from via which they analyse problems and solve them for a glitch free experience.

Project - BSV



Problem Statement

1) Inventory (module)

- a) Language Translation for Inventory Module. The Labels in Module should be changed to Ukranian Language.
- b) Language Translation for Inventory Module. The Labels in Module should be changed to Spanish Language.

2) Contact (Module)

The User should be able to only view the chemist list and should not be able to add, edit or delete

3) Leave (Module)

Language Translation for Leave Module. The Labels in Module should be changed to Spanish Language.

Tools and Technologies used

- Visual Studio Code
- FileZilla Client
- Brave Browser
- Navicat for MySQL

My Contributions

1) Inventory (module)

- a) Created a new file Ukranian.lang.php and integrate the Ukranian language translations. Translated using Google Translate
- b) Created a new file Spanish.lang.php and integrate the Spanish language translations. Translated using Google Translate

2) Contact (Module)

- a) Made changes in the Chemist ListView file to allow users to just view Chemists and not Edit/Delete Them.

3) Leave (Module)

- a) Created a new file Ukranian.lang.php and integrate the Ukranian language translations. Translated using Google Translate

Screenshots

1) Inventory (module)

BSV bringing life to life

Welcome SALESDADMIN ([SALESADMIN]) (2022-06-05 04:59)

Мій обліковий запис BSV Helpdesk Параметри Історія входу Вийти

Додому Клієнти Плани туру DCR Спінкування Залишити Звіт

Швидка створення XSL SMS ОПОВІЩЕННЯ ПРО ЗАВДАННЯ, ЩО ОЧІКУЄ НА РОЗГЛЯД (!!!)

Промо пошуку інвентарю:

Issue Date: LR No.:

Division: Role:

*User:

Click on LR No. hyperlink to Acknowledge Promos

Промо інвентаризації лістинг:

Показ 1 - 0 з 0

No LR	LR Data	Despatch Bld	Опис документа	ЕДД	Визначена/узгоджена дата	Тип документа	Статус	Присвоєно	Зворотній зв'язок

Час відгуку сервера: 0.037233 .

2) Contact (Module)

BSV bringing life to life

Welcome SALESDADMIN ([SALESADMIN]) (2022-06-05 05:33)

My Account BSV Helpdesk Settings Login History Logout

Home Customers TourPlans DCR Communication Leave Reports

Quick Create XSL SMS PENDING TASK ALERT (!!!)

Search Chemist:

Chemist Name: Division: Sub Division: Role: Select Territory:

User Name: Employee Code:

Search by Name: A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Chemist Highlighted in Blue are Updated Chemists :

In Case of any addition of Chemist, Kindly update your STP and get it approved by your superior :

Chemist Listing:

Showing 1 - 0 of 0

Sr No	Account Name	Contact Name	Phone	Area/Patch	Associated To	Edit Delete

Server Response Time: 0.049681 .

3) Leave (Module)

BSV bringing life to life

Welcome SALESDADMIN ([SALESADMIN]) (2022-06-05 06:01)

Mi cuenta BSV Helpdesk Ajustes Historial de inicio de sesión Cerrar sesión

Hogar Clientela Planes de tour DCR Comunicación Salir Informes

Creación rápida XSL SMS ALERTA DE TAREA PENDIENTE (!!!)

Búsqueda de trabajo de campo:

*Partir de la fecha: *Hasta la fecha: *División:

*Papel: Nombre de usuario:

Lista de trabajo de campo:

Demostración 1 - 4 de 4

Fecha	archivado en	Nombre de usuario	visitado con	lugar trabajado	Según TourPlan	El doctor llama	cap. Llamadas	San Llamadas	Actividad 1	Actividad 2	Estado	Editar Borrar
04-06-2022						Sat						
11-06-2022						Sat						
18-06-2022						Sat						
25-06-2022						Sat						

Tiempo de respuesta del servidor: 0.128669 .

Project - Sanofi



Problem Statement

1) Reports (Module)

- a) Reconciliation Report Column Change and issue fixing . Two types of Users “NC” and “Coordinator” . For User type “NC” should have some fields hidden in the Report.
- b) Adding New Columns in the in the Reconciliation Report.
- c) Make Changes in the Report UI . Add New Field in the UI.

Tools and Technologies used

- Visual Studio Code
- FileZilla Client
- Brave Browser
- Navicat for MySQL

My Contributions

- 1) Edited the functionality in the Report Creation file to disallow User type “”NC to View Specific columns in the Reconciliation Report.
- 2) Added new fields in the file Report Creation file (XL format)
- 3) Added new field “Quarter” in the front-end UI which fetches reports quarterly

Screenshots

The screenshot displays the 'Reconciliation Report' page in the SANOFI system. The header includes the SANOFI logo, 'Contact Us', 'Site Map', and a welcome message for 'Chetna Saxena - Coordinator'. A sidebar on the left contains navigation icons. The main content area features a 'Parameters' section with a red asterisk indicating a required field. The parameters include 'Year', 'Quarter', 'From Month', 'To Month', 'Region', 'RC', and 'Counselor', each with a dropdown menu. 'Create CSV' and 'Back' buttons are located at the bottom right of the parameter section. Below the parameters, a message states 'Server response time: 0.195491 seconds.'

Reconciliation Report

Parameters:

*Indicates required field

*Year : Quarter : From Month : To Month :

*Region : RC : Counselor :

[Create CSV](#) [Back](#)

Server response time: 0.195491 seconds.

Project - Jubilant



Problem Statement

1) Leave (Module)

- a) Send Push Notification to the Manager when an User Employee applies for a Leave
- b) Send Push Notification to the User Employee When his/her applied leave is Rejected/Accepted

Tools and Technologies used

- Visual Studio Code
- FileZilla Client
- Brave Browser
- Navicat for MySQL
- PostMan

My Contributions

- 1) Added the functionality in the Leave file to send push Notification to the User Manager when the User Employee applies for Leave.
- 2) Added the functionality in the Authorise Leave file to send push Notification to the User Employee when the User Manager approves/rejects Leave.

Screenshots

JUBILANT LIFESCIENCES CVD

Welcome Harsh Kumar (JUBILANT CVD)(TH)(Amritsar)
 Email ID: helpdesk.jubilant@anant.co.in Contact No.: 9175883724
 Timings: 9.30 am to 5.30 pm [2022-06-05 19:22]

[My Account](#) [Message To Anant](#) [Logout](#)

HOME CUSTOMERS TOURPLANS DCR EXPENSE S.SALES LEAVE INVENTORY COMMUNICATION ACTIVITY REPORTS DASHBOARD

Leave Application: YEAR 2022

Leave Account		PRIVILEGE LEAVE -	CASUAL LEAVE -	SICK LEAVE -	LEAVE WITHOUT PAY -
Previous Year Leave Carryforward Balance :		0	0	0	0
Leave Added for Current Year :	10.00		10.00	10.00	
Leave Balance for Current Year:	7		8	9	
Leave Utilized in Current Year:	3.0		2.0	1.0	5.0
Current Year Leave Closing Balance :	7		8	9	

*Leave Type: LEAVE WITHOUT PAY
 *Leave Day Type: Full Day
 *Reason: PERSONAL WORK
 *From Date: 2022-06-09
 *To Date: 2022-06-10
 No of Days: 2
 *Comments: Leave

Apply Back

Server response time: 4.919155 seconds.

BlueStacks App Player

2:29 PM • Sat, Apr 23

Jubilant • now ^

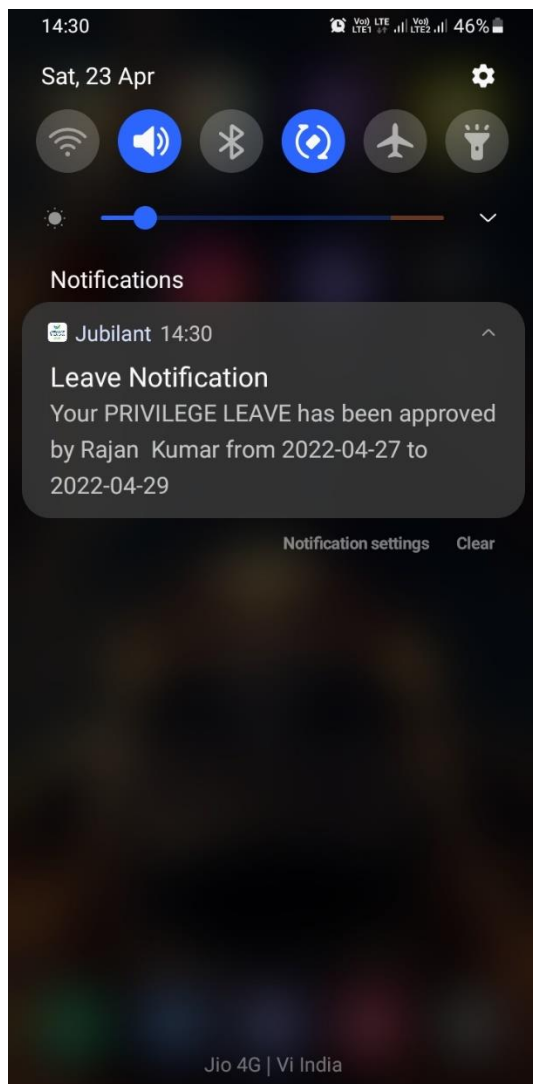
Leave Notification
 PRIVILEGE LEAVE has been applied By Harsh Kumar from 2022-04-27 to 2022-04-29

Android System
 Configure physical keyboard
 Tap to select language and layout

CLEAR ALL

POPULAR GAMES TO PLAY

Dragonscapes Adventure
 POP! Slots™ Vegas Casino Games
 MU Origin 2
 Huuuge Casino Slots Vegas 777



Project - Microlabs



Problem Statement

1) Reports (Module)

- a) Create a New Report “Campaign Analysis Report”
- b) Write a new Query for the report generation

Tools and Technologies used

- Visual Studio Code
- FileZilla Client
- Brave Browser
- Navicat for MySQL

My Contributions

- 1) Created a new pages divisionalcampaignanalysisreport.php and divisionalcampaignanalysisreport.html
- 2) Integrated the fields required to fetch report.
- 3) Created new page CreateXLdivisionalcampaignanalysisreport.php for report Generation in XL format.
- 4) Wrote a new SQL query for report Generation

Screenshots

The screenshot displays the NAV DISHA web application interface. At the top, there is a header bar with the NAV DISHA logo on the left and user information on the right, including a welcome message for Budigapaka Chinnarayudu (Brown & Burk)(TE)(HYDERABAD-1-T-(17)), help email, and links for My Account, Message To Anant, and Logout. Below the header, a navigation menu contains links for Home, Customers, TourPlans, DCR, Expense, Communication, Leave, Reports, S.Sales, Query, Inventory, and ChemistConnect. The main content area is titled "Campaign Analysis Report" and includes a "Search Criteria:" section. This section contains a message: "The campaigns active from 2022-03-01 to 2022-05-31 Will be displayed in Campaign Drop-down". Below this message are several input fields: "Division:" with a dropdown arrow, "Role:" with a dropdown arrow, "Month:" with a calendar icon and a list showing January, February, and March, "Year:" with a dropdown arrow, "Campaign:" with a dropdown arrow, and "Doctor:" with a dropdown arrow. At the bottom right of the search criteria section are two buttons: "Create XL" and "Back". Below the search criteria section, a footer line indicates the server response time: "Server response time: 0.53493 seconds."

Project - Macloeds

Problem Statement

- 1) **Leave (Module)**
 - a) Analyse the Leave API and API Integration

Leave API: API with request parameters as **employee code, year and division** and response parameters as status, Date and Leave Details . Time limit is specified in the API.

Tools and Technologies used

- Visual Studio Code
- FileZilla Client
- Brave Browser
- Navicat for MySQL
- Postman

My Contributions

- 1) Added functionality in Leave API to send request and get response in JSON format for following cases
 - a) Case 1 : Within Time Limit where request parameters are **year and division** . Response is Leave Details of All Users.
 - b) Case 2 : Time limit Crossed where request parameters are **employee code, year and division** . Response is Leave Details of User with Specific Employee Code.

Tools and Technologies used



Visual Studio Code

Visual Studio Code is a code editor redefined and optimized for building and debugging modern web and cloud applications



FileZilla Client

FileZilla is one of the most popular FTP clients. The main purpose of Filezilla is to make it easy for you to upload and download files from your web hosting server.



MySQL Workbench

MySQL Workbench is a unified visual database designing or graphical user interface tool used for working with database architects, developers, and Database Administrators.

full-featured web applications.



Sql Developer

Oracle SQL Developer is a free, integrated development environment that simplifies the development and management of Oracle Database in both traditional and Cloud deployments



Postman

Postman is a collaboration platform for API development.

Postman's features simplify each step of building an API and streamline collaboration so you can create better

APIs—faster. Postman is a collaboration platform for API development. Postman's features simp



XAMPP

XAMPP is the most popular PHP development environment.

XAMPP is a completely free, easy to install Apache distribution containing MariaDB, PHP, and Perl.



Navicat for MySQL

Navicat for MySQL is the ideal solution for MySQL/MariaDB administration and development. It is a single application that allows you to connect to MySQL and MariaDB databases simultaneously. Compatible with cloud databases like Amazon RDS, Amazon Aurora, Oracle Cloud, Google Cloud and Microsoft Azure. This all-inclusive frontend provides an intuitive and powerful graphical interface for database management, development, and maintenance.



Firebase Cloud Messaging (FCM)

Firebase Cloud Messaging (FCM) is a cross-platform messaging solution that lets you reliably send messages at no cost. Using FCM, you can notify a client app that new email or other data is available to sync. You can send notification messages to drive user re-engagement and retention.

Internship Timeline

January 2022

Week 2:

1. Formal Orientation and onboarding process
2. Started Learning HTML, CSS, Bootstrap,

Week 3:

1. Learnt Javascript, JQuery, SQL Queries.

Week 4:

1. Learnt PHP

February 2022

Week 1:

1. Test Involving HTML, CSS, Bootstrap, Javascript and PHP

Week 2:

1. Test Involving HTML, CSS, Bootstrap, Javascript and PHP

Week 3:

1. Ukranian Language Translation for BSV
2. Functionality to display chemist list and disallow Edit/Delete

Week 4:

1. Unit Testing & Issue Fixing for BSV

March 2022

Week 1:

1. Analyse the Report section along with the Database tables (Sanofi).
2. Analyse BSV API integration.

Week 2:

1. Analyse Table verification for reports for Sanofi

Week 3:

1. Analyse the requirements for reports section for Sanofi
2. Reconciliation Report Issue fixing

Week 4:

1. Spanish Language Translation for Leave Module for BSV

April 2022

Week 1:

1. Requirement Gathering and Reconciliation listing and filtering for new changes for Sanofi.
2. Add New Columns in Reconciliation Report.
3. Demo to Anant Infotech Pvt.Ltd on reconciliation report completed point and changes

Week 2:

1. Integrate FCM push notifications using php(Jubilant).
2. Analyse FCM push notifications using postman.

Week 3:

1. Project Jubilant Push Notification Checking & Sample Notification Integration

Week 4:

1. Project Sanofi Reconciliation report analyse and new Changes Integration to the Report.
2. Unit testing & Issue Fixing

May 2022

Week 1:

1. Analyse the API and API Integration and Query Building (macloeds).

Week 2:

1. Query optimization for inventory module for Project Macloeds.

Week 3:

1. UI Integration for campaign analysis report & Query Generation (Microlabs).
2. Campaign analysis report UI Changes.

Week 4:

1. Modifications in the UI of Campaign analysis Report
2. Modifications in the Report Query of Campaign analysis Report

June 2022

Week 1:

1. Demo to Anant Infotech Pvt.Ltd and Changes
2. Unit testing & Issue Fixing

My reflections/ experiences of internship.

My Internship at Helix Tech has been a wonderful and growing experience. Facing new challenges every day is a norm here at HelixTech.

An undying hunger to learn more is something that is cultivated in employees here. Being in industry and working on live projects is not something one learns but experiences.

At Helix Tech, I was never restricted to just my project team. I was provided freedom to interact, consult, seek help and guidance, etc. from any colleague.

Overall, I'm very happy to be part of Helix Tech. My best of wishes to everyone here.

References

- 1) en.wikipedia.org
- 2) <https://firebase.google.com/docs/cloud-messaging>