

REPORT OF INTERNSHIP DONE AT SOFTMONKS (OPC) PVT LTD

An Internship Report for

Course Code and Course Title: CSA-652 - Industry Internship / Software Project
Development

Credits: 16

Submitted in partial fulfilment of MCA Degree

for Semester IV

By

SONIA VISHNU KASAR

Seat Number: 22P0320052

Roll Number: 2231

ABC ID : 557440849682

Under the mentorship of

Miss SHRADHAA BHAGAT

The Discipline of Computer Science and Technology,
Goa Business School,
Goa University.



Goa University

Date: June 2024

Examined by:

Seal of the School

DECLARATION BY STUDENT

I hereby declare that the data presented in this Internship report entitled, “**Report of Internship Done at SOFTMONKS(OPC) PVT LTD**” is based on the results of investigations carried out by me in the Discipline of Computer Science and Technology at the Goa Business School, Goa University, under the mentorship of **Dr. P Payaswini** and the same has not been submitted elsewhere for the award of a degree or diploma by me. Further, I understand that Goa University or its authorities will not be responsible for the correctness of observations/experimental or other findings given the internship report/work. I hereby authorise the University authorities to upload this dissertation on the dissertation repository or anywhere else as the UGC regulations demand and make it available to any one as needed.

Date:
Place: Goa University

Miss. Sonia Vishnu Kasar
Roll no: 2231
Master of Computer Application
Goa Business School

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OFFER LETTER



SoftMonks (OPC) Private Limited

CIN: U72200GA2015OPC007747

GSTIN: 30AAWCS3196E1Z4

Office #12, 5th Floor, Buildmore Business Park,
Khorlim-Xim, Mapusa - Goa (India) - 403507

Mobile: +91-982-211-3668

Ph: +91-832-297-6622

info@softmonks.com

www.softmonks.com

Date: December 22, 2023

To,
Sonia Kasar
HNo.144, Sasoli Bazarwadi, Dodamarg, Sindhudurg
Maharashtra 416511

Dear Sonia,

SoftMonks (OPC) Private Limited (SOFTMONKS) is pleased to offer you a short term assignment as "Intern" effective January 1, 2024.

The internship will be a maximum of six months ending on or before June 30, 2024. You will be paid a monthly stipend of INR 10,000.00 paid in accordance with our normal payroll practices.

During your internship period you will be working on our client project. The project should be completed at our office and during office hours. The completed project will be sole property of SOFTMONKS and should not be shared with anyone outside SOFTMONKS. Due to the non-disclosure agreement with our client, you will not be able to present the project in full or in parts to anyone outside SOFTMONKS.

Upon joining, you will have to sign the Employee Confidentiality Agreement and abide by the rules and regulations of the company.

As per company norms, you will have to submit 2 photographs, photo copies of 2 ID proofs, graduation certificates and certificates for any other courses obtained.

If you would like to accept the internship, please sign and return a copy of this letter along with the documents mentioned.

It is a pleasure to make you this offer to join the Team SOFTMONKS.

Sincerely,

SoftMonks (OPC) Private Limited

Managing Director

Shivprasad Mangesh Ajgaonkar

software design & development | database | content management system | web design & development | online services
customer relationship management system | android | iOS | e-commerce | search engine optimization | user experience

INTERNSHIP CERTIFICATE



SOFTMONKS
we make it possible

SoftMonks (OPC) Private Limited

CIN: U72200GA2015OPC007747

Office #12, 5th Floor, Buildmore Business Park,
Khorlim-Xim, Mapusa, Goa - 403507 (INDIA)

Cell: +91 982-211-3668 Phone: +91 832-297-6622
Info@softmonks.com www.softmonks.com

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms. Sonia Vishnu Kasar** was employed with us as an **"Intern"** from January 1, 2024 to May 31, 2024 in the capacity of **Software Developer**.

During her tenure of service with us we found her sincere, hardworking and enterprising. She was efficient in her work and capable of handling the work assigned to her, effectively.

Her project was titled "App Based Internal Employee Management System."

Her major contributions during the internship were as follows:

- Acquired in depth knowledge of our in-house framework developed in PHP, JavaScript, CSS, JQuery, Ajax, JSON, etc.
- Worked on MySQL to design database structure and write optimized, complex SQL queries.
- Worked to create test cases to debug and test the application.

We issue this certificate thanking her on being such a good addition to the team and the company here. For whatever small time, and wish her all the best in her future endeavors.

SoftMonks (OPC) Private Limited



Managing Director

Shivprasad Mangesh Ajgaonkar

Place: Mapusa, Goa

Date: May 31, 2024

software design & development | database | content management system | web design & development | online services
customer relationship management system | android | iOS | e-commerce | search engine optimization | user experience

COMPLETION CERTIFICATE

This is to certify that the Internship report “**Report of Internship Done at SOFTMONKS (OPC) PVT LTD**” is a bonafide work carried out by **Miss. SONIA VISHNU KASAR** under my mentorship in partial fulfilment of the requirements for the award of the degree of Master of Computer Application in the Discipline of Computer Science and Technology at the Goa Business School, Goa University.

Dr. P Payaswini
Assistant Professor, MCA
Goa Business School

Date:

Signature of Dean of School/HOD

Date:

Place: Goa University

School/Department Stamp

ACKNOWLEDGEMENT

My internship at **SOFTMONKS (OPC) PVT LTD** was truly life-changing. It sparked my passion for development and set me on a path for success in my career. The skills and knowledge I gained there are invaluable and will help me achieve my goals.

I am deeply grateful for the incredible people I've had the privilege to meet during my journey. I extend my heartfelt thanks to everyone who supported and encouraged me throughout this internship. I especially want to acknowledge **Mr. Shivaprasad Mangesh Ajgaonkar** (Managing Director, SOFTMONKS) for giving me this opportunity and guiding me along the way.

I am incredibly grateful to **Mr. Hanumant Godekar** and **Miss. Sujata Bagli** (Software Engineers, SOFTMONKS) for being my mentors. Their valuable advice and continuous support were always motivating. Their expertise and dedication were truly inspiring. I also want to express my appreciation to **Mrs. Devayani Sirsat** (Project Lead, SOFTMONKS) and **Miss. Shradha Bhagat** (Team Lead, SOFTMONKS) for creating a positive and dynamic work environment that made me feel valued and comfortable from the very beginning.

I owe a debt of gratitude to the amazing faculty at Goa Business School, Goa University. A big thank you to **Mrs. Jyoti Pawar** (Dean), **Mr. Ramdas Karmali** (Prof. and TPO, MCA), **Mr. Ramrao Wagh** (Program Director, MCA), **Mr. Hanumant Redkar** (Assistant Professor, MCA), **Dr. P Payaswini** (Assistant Professor, MCA) and the entire MCA faculty for their constant encouragement and guidance throughout this project.

I am deeply grateful to my parents, teachers, and friends for their unwavering support and belief in me. Their encouragement has been the driving force behind my success, and I appreciate everything they have done for me.

The Softmonks family holds a special place in my heart, as their willingness to support and guide me has been invaluable. This experience has equipped me with the confidence and skills to tackle future challenges, and I am truly thankful for the positive impact it has had on my career development.

EXECUTIVE SUMMARY

During my internship at **SOFTMONKS (OPC) PVT LTD** from January 2024 to June 2024, I was engaged in a project that provided me hands-on experience in backend development. This report outlines my tasks, learning outcomes, and the challenges I encountered. I worked with various tools and technologies, including HTML, CSS, JavaScript, PHP and jQuery.

Company Overview

The organization provided a dynamic and collaborative environment where creativity and technical skills were equally valued. Projects work was developing backend support. Regular meetings, such as scrum meetings and team cohesion.

Task Handled

Employment Management System App

- ➔ Backend development – Developing UI interfaces using HTML and CSS and building functionalities using jQuery and JavaScript and accessing data from MySQL database using PHP and writing scripts for creating Excel Sheets using php Spreadsheet.
- ➔ Integration with App – Writing scripts for integrating app with database in php.

Learning Outcomes

- **Technical Skills:** Gained proficiency in PHP, Postman and jQuery. Learned to set up databases, develop backend functionalities, and create APIs and UI Interfaces.
- **Development Practices:** Understood the importance of secure authentication, data validation, and optimization techniques. Enhanced skills in bug fixing, code integration.

- **Project Management:** Learned to handle multiple tasks simultaneously, manage timelines, and collaborate effectively with team members.

Challenges Faced

1. **Project Management:** Time management and prioritization abilities were essential for handling several projects at once. A constant problem was juggling the demands of multiple duties and making sure that deliveries were made on schedule.
2. **Technical Challenges:**
 - ✓ **Bug Fixing and Debugging:** fixing PHP and database issues were major challenges. To achieve the intended results, debugging and troubleshooting were necessary for each module.
 - ✓ **Optimizing the Code:** Main challenges during my internship were optimizing the existing codebase to improve its performance, which involved identifying bottlenecks and implementing more efficient algorithms and data structures.
 - ✓ **Balancing Readability and Speed:** Another significant challenge was maintaining the readability and maintainability of the code while making optimizations, ensuring that the code remained understandable for future developers.
3. **Learning New Technologies:** Adapting to new technologies such as php, JavaScript, requiring additional time and effort to master.

CHAPTER I : COMPANY OVERVIEW



Name of the Company: SOFTMONKS OPC PVT. LTD.

Address: Office #12, 5th Floor, BuildMore Business Park, Khorlim-Xim, Mapusa, Goa - 403507.

Phone Number: +91-735-001-3113

Email: info@softmonks.com

Website: www.softmonks.com

1.1 BIRD-EYE-VIEW

SOFTMONKS (OPC) PRIVATE LIMITED was established on October 25, 2015, as a private company. It is registered with the Registrar of Companies in Goa and is categorised as a non-government corporation. It is involved in operating systems software, business & other application software, software publishing, consulting, and software supply.

Overall, the company's proficiency with marketing, content management, and cross-platform e-commerce allows them to create comprehensive programs that seamlessly integrate each of these components. Their primary areas of competence are web-based software using PHP, MySQL, HTML/CSS, JavaScript, and Android and iOS platforms. This integrated strategy encourages customer satisfaction and engagement, which eventually boosts company expansion and success.

SOFTMONKS is an idealist company. They adhere to the "Software Development Life Cycle" and make sure that their usability experts thoroughly evaluate every product they build. To obtain the best quality, deploy software through a complex sequence of permutations and combinations, selecting the best technology based on the needs of the client.

To differentiate themselves, the corporation mainly uses three letters:

- **LISTEN** :- In order to create flawless software, the organisation pays attention to all needs, investigates the client's business model, comprehends their questions, and identifies their target market.
- **THINK** :- Following the receipt of all requirements, analysing the business plan, and identifying the intended user base for the software development project.
- **DEVELOP** :- They use the best technology available to design your program based on needs and study.

1.2 SERVICES

- Mobile Application Development: Developing user friendly mobile applications for both android and iOS platform.
- Web Development: Creating full stack websites that are dynamic and improve user engagement and business expansion.
- IT Support and Consultancy: Offering expert IT support and consultancy services to enhance business operations.

CHAPTER II : TASKS HANDLED

2.1 App based Employee Management System

2.1.1 TIMELINE : JANUARY 2024 – JUNE 2024

- **Week 1:**
 - Formal Introduction.
 - Introduction to their clients and projects.
 - Revision of HTML, CSS & JavaScript

- **Week 2:**
 - Task to create Student Registration Form
 - Revision of DBMS & PHP
 - Implementing CRUD operations to Student Registration Form using PHP.

- **Week 3:**
 - Continuation of CRUD operations.
 - Dropdown, Radio Buttons, Date Picker, Check Boxes and Image adding.
 - Converting JavaScript Code into jQuery in CRUD Operations.

- **Week 4:**
 - Implementation of AJAX in the CRUD Project.
 - File Separation.

- **Week 5:**
 - Project briefing.
 - Referring and learning case studies on related projects.
 - Learning the technology used for it.
 - Learning their template code.

- **Week 6:**
 - Proposing ideas related to project modules in a meeting.
 - Creating app module flow.
 - Started with the actual code writing and creating interface in php and js.
- **Week 7:**
 - Created sample module code to practise.
 - Took help from mentors and learned languages required for the project.
- **Week 8:**
 - Started with actual project modules.
 - Time Tracker Module which includes all data about employees sign in and out.
- **Week 9:**
 - Building all required functionalities for Clock IN/OUT grid List.
 - Building all required functionalities for Time Clock Grid List.
 - Improvising code based on feedback from mentors.
 - Search bar implementation for custom search.
- **Week 10:**
 - Developing Calendar Module UI interface and navigations.
 - Practising php spreadsheet generation.
 - Excel Sheet Report Generation using php on click of download button.
- **Week 11:**
 - Developing TimeClock widget module.
 - Testing with a timesheet module and getting feedback from mentors.
- **Week 12:**
 - Learned how to write API scripts using php to integrate our app with the backend.
 - Simultaneously working on the Leave module and writing its functionalities and database connections.

- **Week 13:**

- Discussion for work flow of the Leave module.
- In Code Calculation of leave data as per requirements.
- Added Leave Request data to the table.
- Leave request data retrieval from table.
- Display leave request data listing.
- Fixed Leave Listing UI Structure.

- **Week 14:**

- Edit / Update leave request from the listing itself.
- Added TextArea for Reason of Leave in the module.
- Added edit form onClick of edit button for reason.
- Fixed Date/Time format issue.
- Changed logic for Calculation of Leave Days.
- Tested module thoroughly with different cases.

- **Week 15:**

- Changed module visibility according to User Type (Admin, General).
- Added conditions for Leave Request Approval/Rejection.
- Adding an API for saving data from the app.

- **Week 16:**

- Finalising working of php functions for API mode building.
- Developed APIs modes for leave module i.e. displayLeave, addLeave, updateLeave, editLeave, etc.
- Developing API mode for filtering leaves.
- Testing all different cases.

- **Week 17:**

- Build Holiday module for adding yearly holidays.
- Adding access to only admin.
- Modifying Calendar module code to display holidays.

- **Week 18:**
 - Deciding Staff module UI and functionalities with mentors.
 - Developing listing of all staff.
 - Developing edit functionality for each employee.
 - Developing functions for adding specific leaves and displaying all leaves for every employee of the company.
- **Week 19:**
 - Designing and implementing essential tabs for the staff module.
 - Integrating comprehensive functionalities across all tabs.
 - Collaborating with mentors to strategize the Document tab's development.
- **Week 20:**
 - Crafting the Document tab to facilitate efficient document management.
 - Creating APIs to enable seamless uploading and displaying of profile photos.
 - Conducting debugging to resolve issues related to document display upon clicking "view".
- **Week 21:**
 - Developing APIs for the Profile and Designation tabs to facilitate seamless data management.
 - Implementing an API for password management, enabling users to create a new password by verifying their old one.
 - Designing a versatile email function, allowing users to compose emails with all necessary details such as recipients, sender, body, and type.
 - Creating APIs for the "forgot password" feature, allowing users to reset their password by verifying their email and receiving an OTP code.
- **Week 22:**
 - Crafting separate APIs for uploading documents and images to ensure distinct handling of file types.
 - Creating a function to convert document names into corresponding paths for efficient file organization.
 - Leveraging the generated paths to store documents securely on the server.

2.1.2 TOOLS AND TECHNOLOGIES USED



[Figma](#) is a web-based design tool for UI/UX featuring real-time collaboration and functionalities for mockups, prototypes, and design systems.



[Android](#) is a mobile operating system based on a modified version of the Linux kernel and other open-source software, designed primarily for touchscreen mobile devices such as smartphones and tablets.



[Swift](#) is a powerful and easy-to-learn programming language created by Apple for developing applications on their platforms (iOS, iPadOS, macOS, tvOS, watchOS). It's known for its speed, safety, and readability.



[Android Studio](#) is the official development environment for building Android apps. It lets you write code, design interfaces, test functionality, and deploy your app to the Google Play Store.



[Git](#) is a free and open-source version control system for tracking changes in computer files and code. It's particularly popular for collaborative software development.



[Postman](#) is a software platform for building and using APIs (Application Programming Interfaces). It simplifies creating, testing, and managing APIs throughout their lifecycle.



PHP (originally stood for Personal Home Page, now a recursive initialism for PHP: Hypertext Preprocessor) is a popular open-source scripting language specifically geared towards web development.



HTML (HyperText Markup Language) is the fundamental building block of web pages. It defines the structure and content of web content, like headings, paragraphs, images, and links. Imagine it as the skeleton of a web page.



CSS (Cascading Style Sheets) is the language that styles and beautifies web pages built with HTML. It controls the visual aspects of a web page, like fonts, colours, layout, and spacing.



JavaScript which stands for JavaScript, is the programming language that brings web pages to life. It adds interactivity, animation, and dynamic behaviour to what would otherwise be static HTML and CSS content.



jQuery is a popular JavaScript library that simplifies interacting with HTML, CSS, and the Document Object Model (DOM).



phpMyAdmin provides a user-friendly web interface for managing MySQL databases, allowing for easy database administration tasks without needing SQL knowledge.



Kotlin is an open-source, statically-typed programming language that supports both object-oriented and functional programming. Kotlin provides similar syntax and concepts from other languages, including C#, Java, and Scala, among many others.



XML (Extensible Markup Language) in Android is used to define the layout and structure of user interfaces. It allows developers to specify the design of UI elements, such as buttons and text fields, and their arrangement on the screen in a hierarchical manner.

2.1.3 Learning SOFTMONKS web based CMS Template

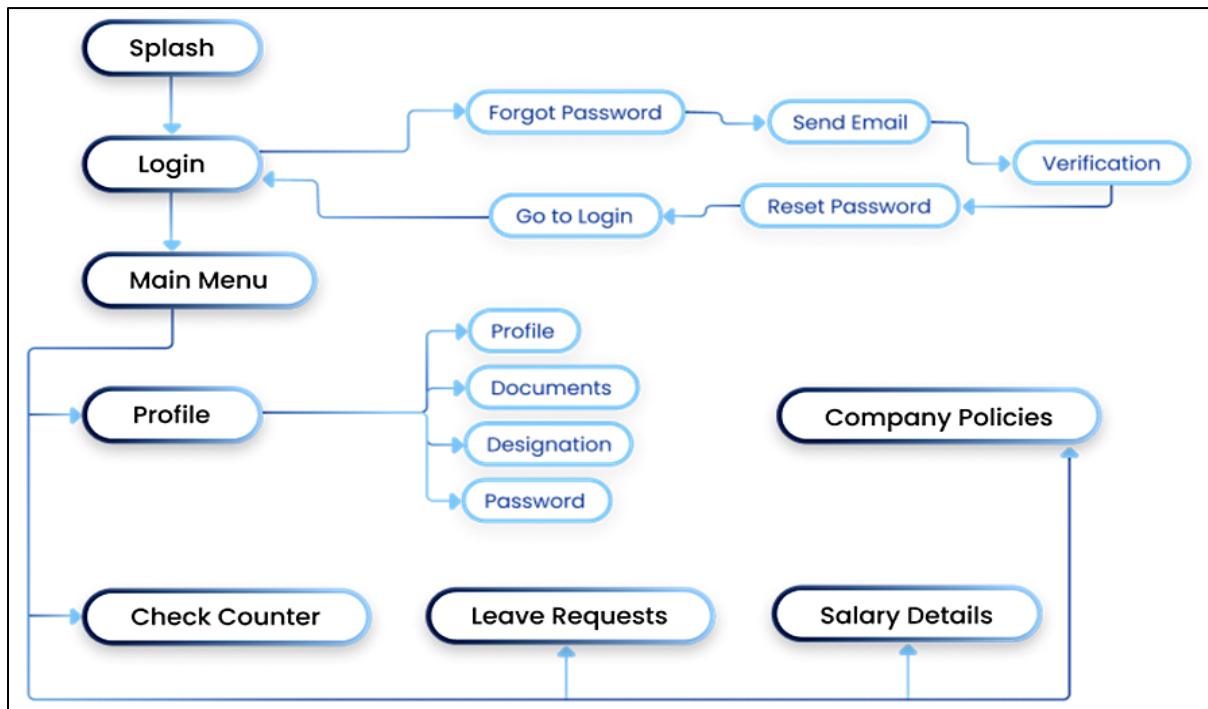
SoftMonks senior developer have developed the CMS template for their company which they use for developing backend functionalities. Template have built-in code files for JavaScript, CSS, HTML, PHP and scripts. Template is integrated with database for creating tables. When you create new modules it automatically creates tables in database.

2.1.4 Learning Backend Development using PHP

- **PHP Basics:**
 - Learned php from scratch.
 - Practiced writing PHP scripts for basic operations like form handling, data validation, and session management.
- **Database Operations:**
 - Learned to connect PHP scripts to the MySQL database.
 - Performed CRUD (Create, Read, Update, Delete) operations through PHP scripts.
 - Practiced writing SQL queries and integrating them within PHP for android and IOS applications.
- **phpMyAdmin Usage:**
 - Used phpMyAdmin to visualize and manage database tables and data.
 - Practiced importing and exporting databases, and running SQL queries directly in phpMyAdmin

2.1.5 App Flow and Wireframes

- App Flow



- Wireframes



2.1.6 Functionalities Development

- **Employee Self-Service:**
 - **Profile Management:** View and update user details, designation, and change password.
 - **Time Tracking:** Clock in, take breaks, clock back in, and clock out functionality.
 - **Leave Management:** Apply for leave, edit existing leave requests, and view leave balance.
- **Company Information:**
 - **Calendar:** View company holidays, employee birthdays, and applied leaves.
 - **Holiday:** Keeps all official holidays given to employees.

2.1.7 Generating ExcelSheet in PHP

1. **Database Connection:** Connecting to the database allows you to retrieve the data that needs to be exported.
2. **Data Retrieval:** Fetching data using a SQL query and storing it in an associative array for easy manipulation.
3. **Excel Creation:**
 - **Creating a Spreadsheet Object:** Initializes a new Excel file.
 - **Setting Column Headers:** The first row in the Excel sheet is used for column headers, which match the database table columns.
 - **Populating Data:** Loops through the fetched data and populates each cell accordingly.
4. **Download Setup:** Configuring headers to prompt a file download in the browser, ensuring the generated Excel file can be downloaded directly.

Challenges Faced while generating Excel sheet

- **Efficiency:** Ensuring the code handles large datasets efficiently without running into memory issues or timeouts.
- **Compatibility:** Ensuring the generated Excel files are compatible with different versions of Excel.
- **Error Handling:** Gracefully handling database connection failures, data retrieval errors, and file generation issues to provide meaningful feedback to the user.

2.1.8 Building APIs in php

Building a RESTful API in PHP to integrate with Android and iOS applications, covering setting up the environment, creating API endpoints for CRUD operations, and integrating with mobile apps using Volley and Alamofire. With this setup, anyone can effectively manage app's data and ensure smooth communication between the mobile applications and the backend server.

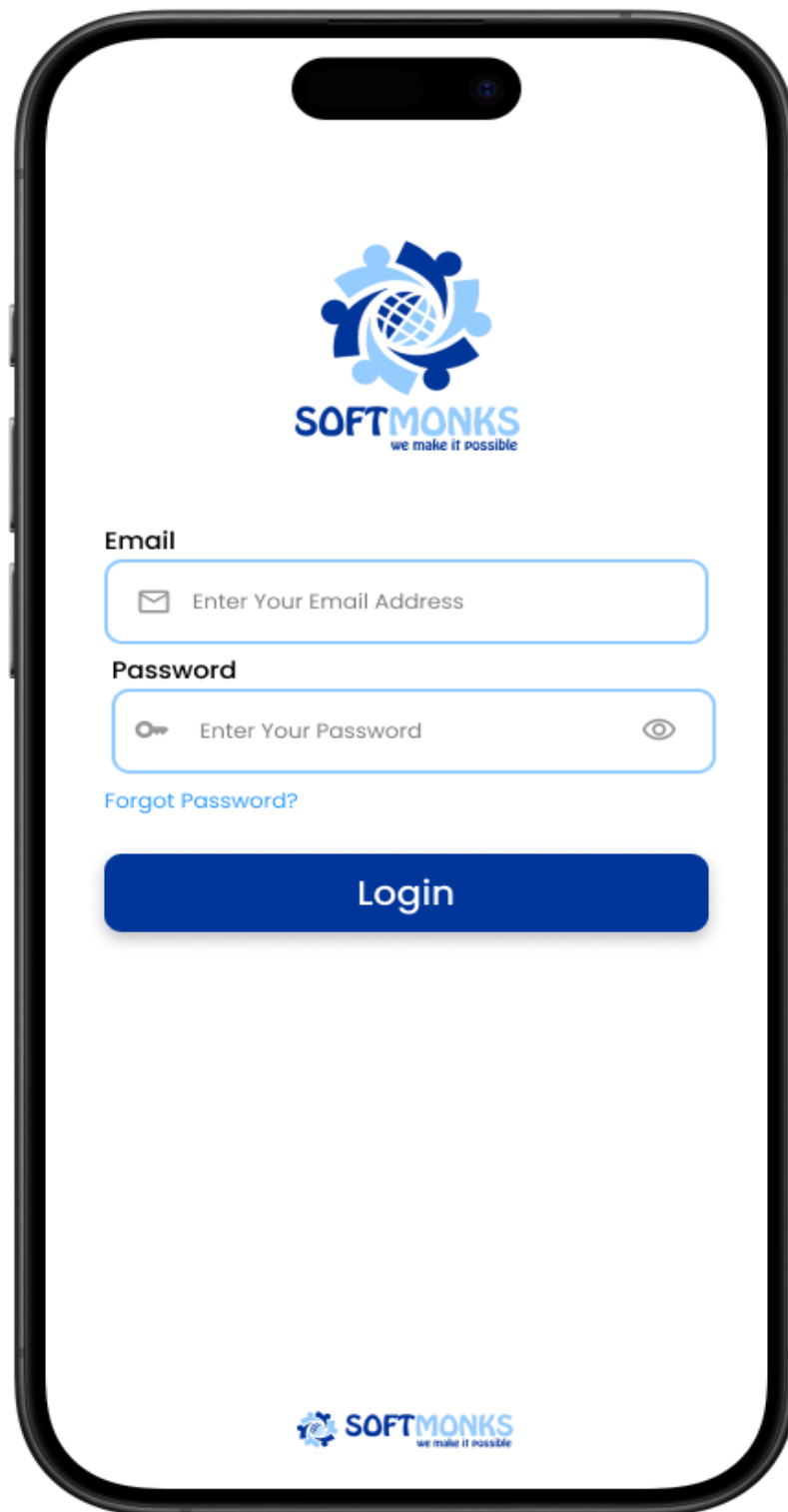
2.1.9 Testing and Debugging

Testing and debugging APIs with Postman before integrating them with an Android or iOS app is a crucial step in ensuring that your APIs work correctly.

Using Postman to test and debug your PHP APIs before integrating them with your Android or iOS app helps ensure that the backend is functioning correctly. By thoroughly testing each CRUD operation, you can identify and fix issues early, leading to a smoother development process for your mobile applications.

2.1.10 App User Interface

- Log In Screen

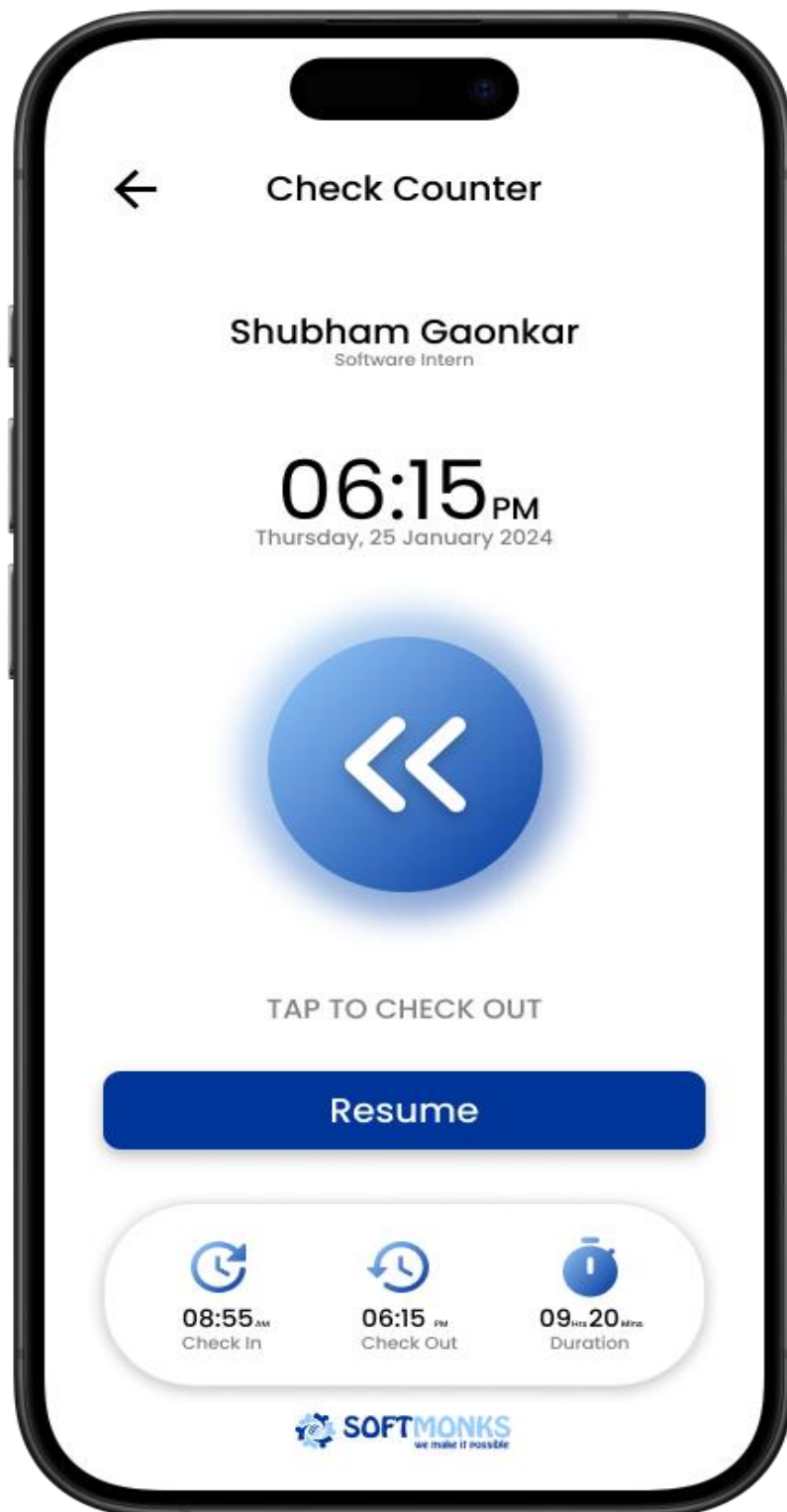


- Main Menu Screen

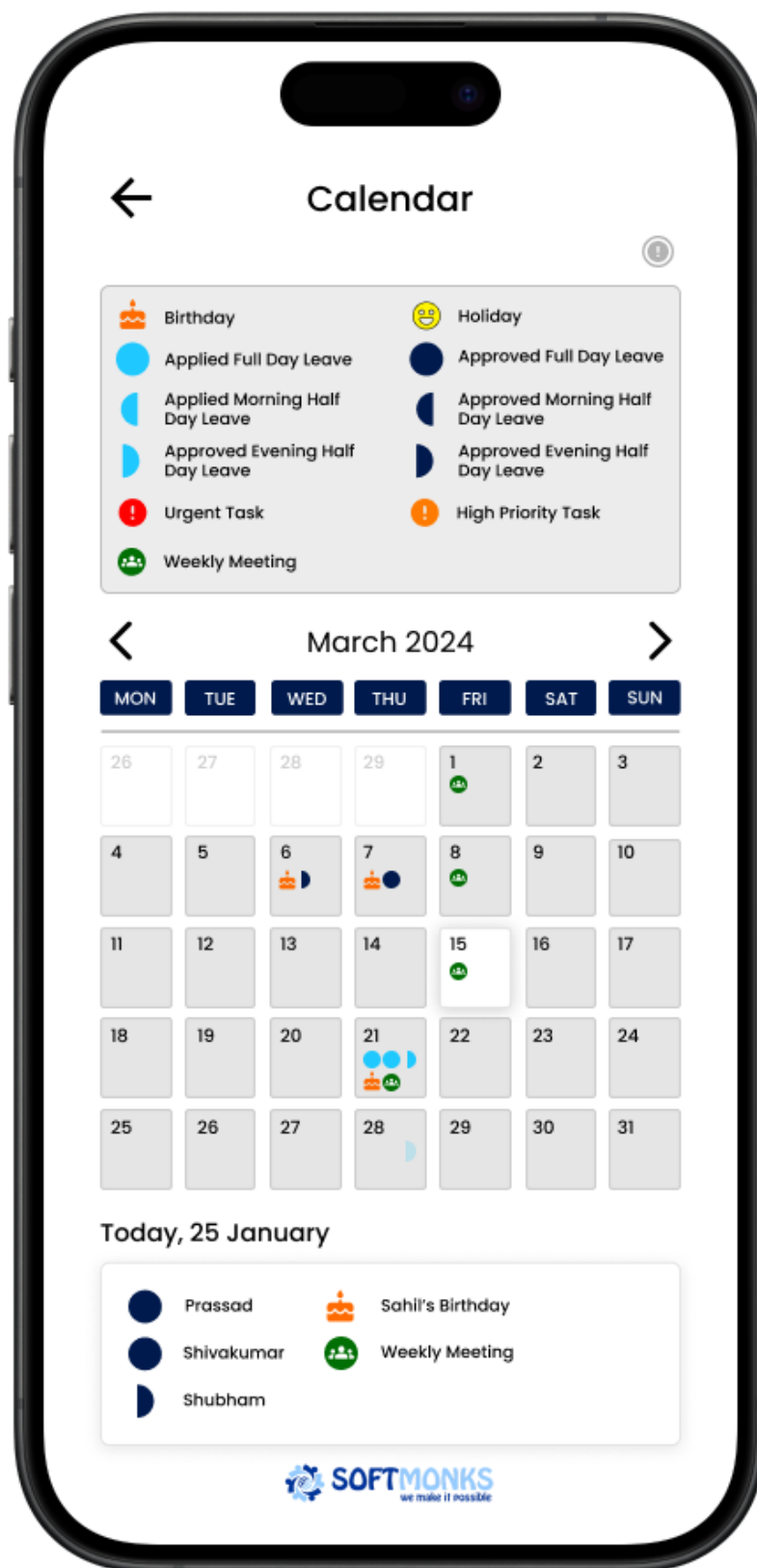


- Check Counter Module

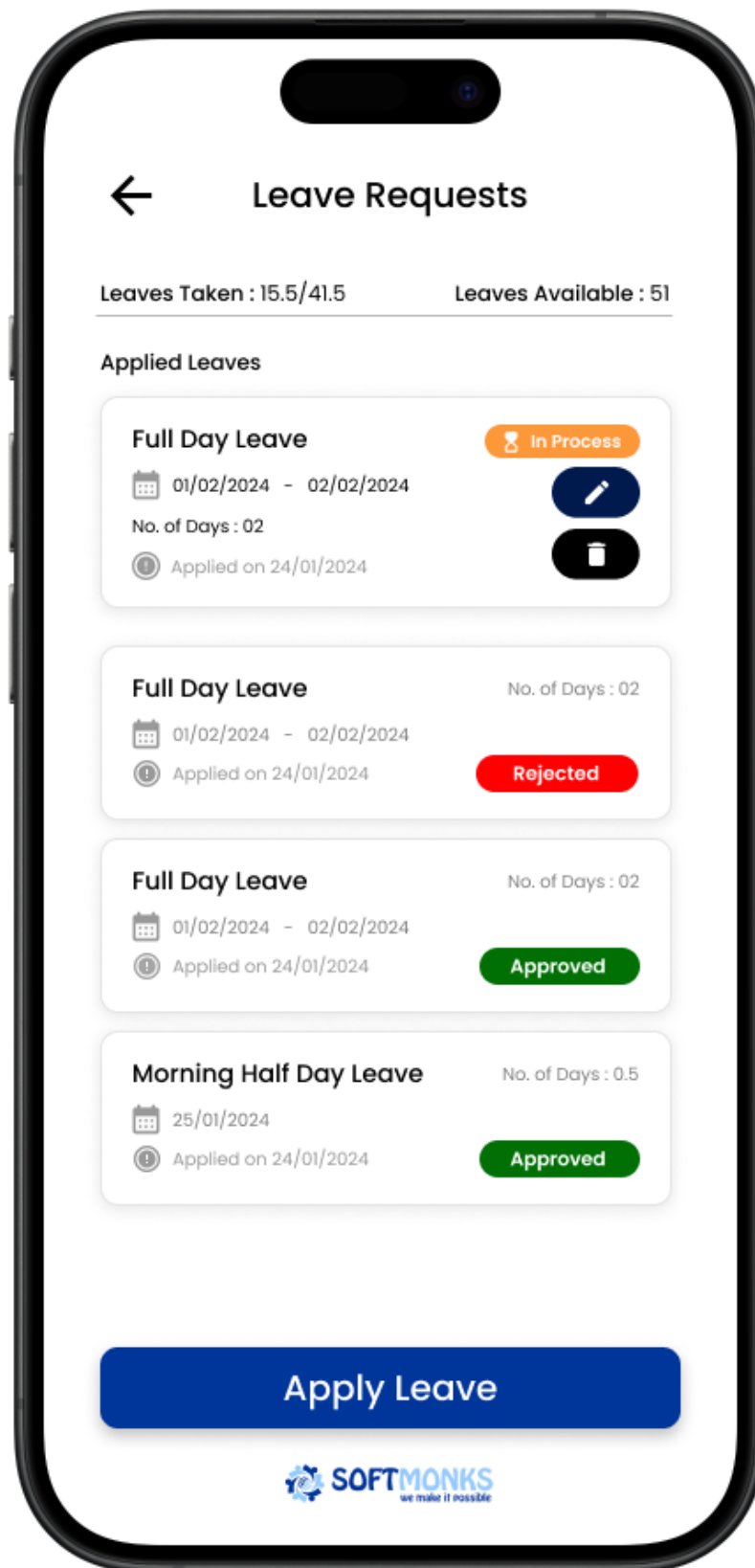




- Calendar Module



- Leave Request Module



← Leave Requests

Leaves Taken : 15.5/41.5 Leaves Available : 51

Applied Leaves

Apply Leave Request

Leave Type
Full Day

From Date
DD/MM/YYYY


To Date
DD/MM/YYYY

No. Of Days : 0

Reason

Send Leave Request

Apply Leave

 **SOFTMONKS**
we make it possible

← Leave Requests

Leaves Taken : 15.5/41.5 Leaves Available : 51

Applied Leaves

Edit Leave Request

Leave Type
Full Day

From Date
01/02/2024


To Date
02/02/2024

No. Of Days : 0

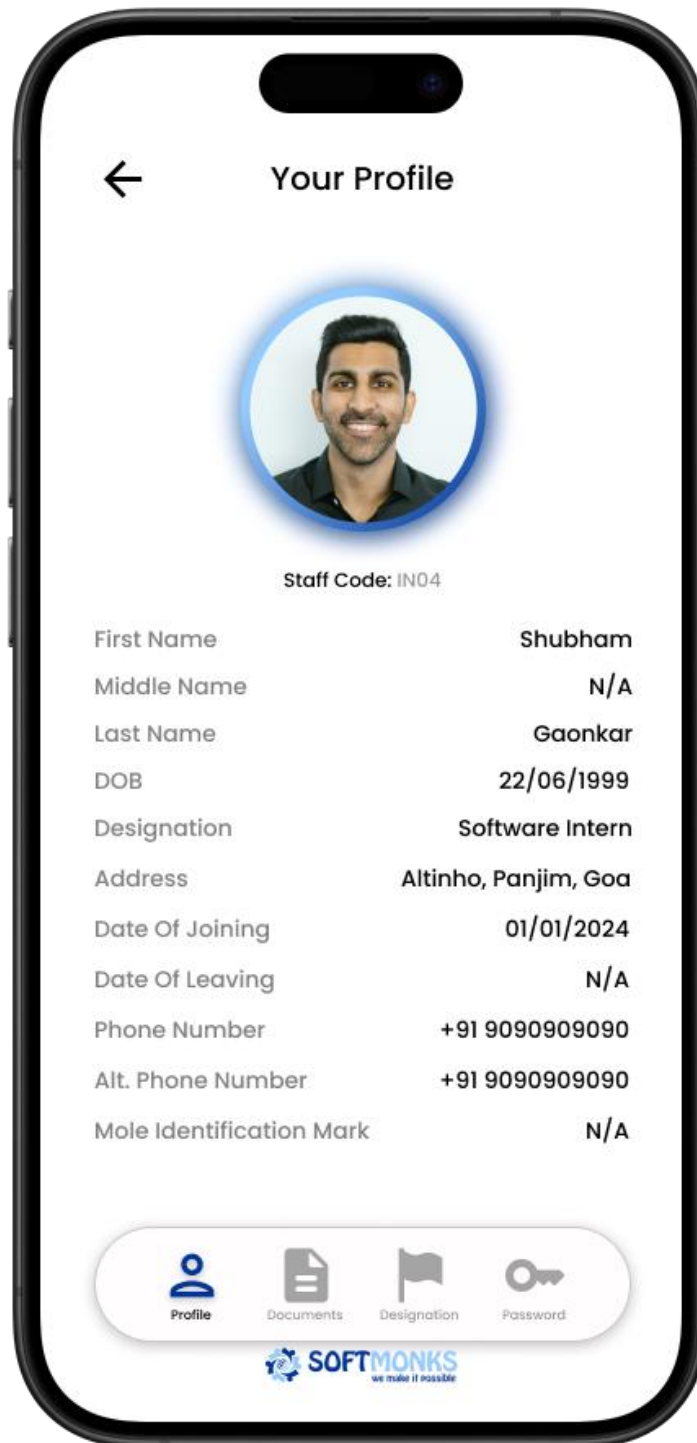
Reason
Wedding

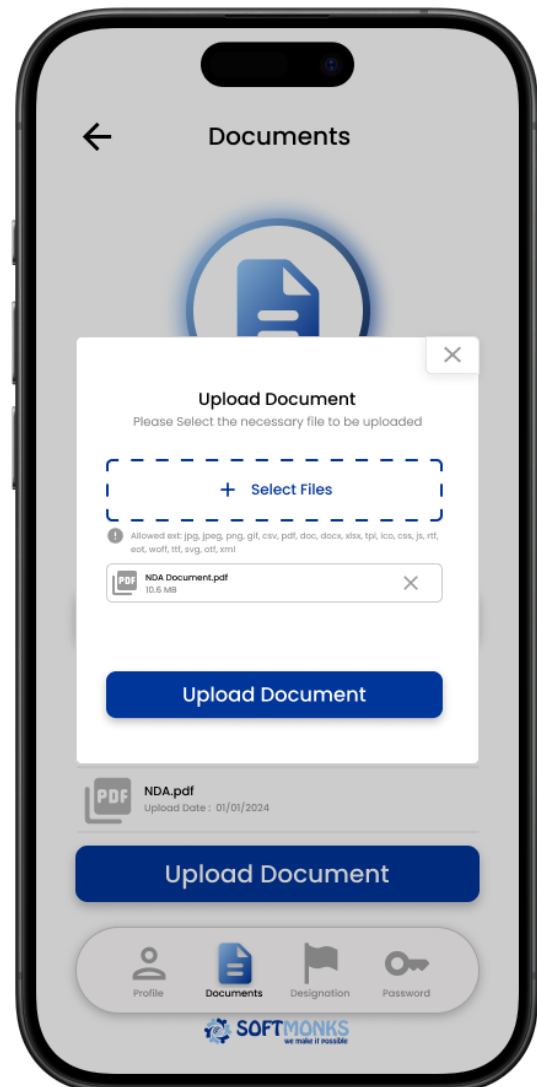
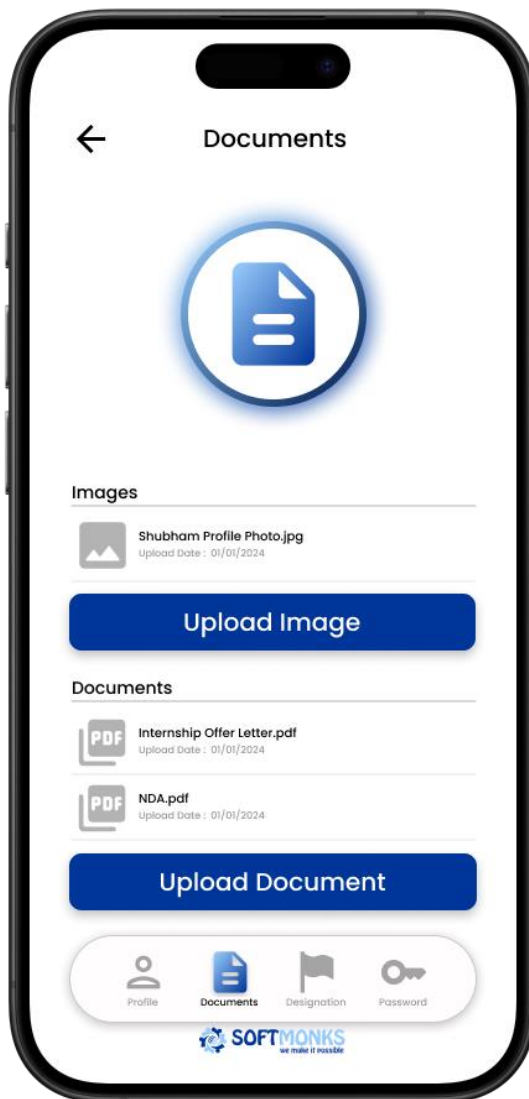
Edit Leave Request

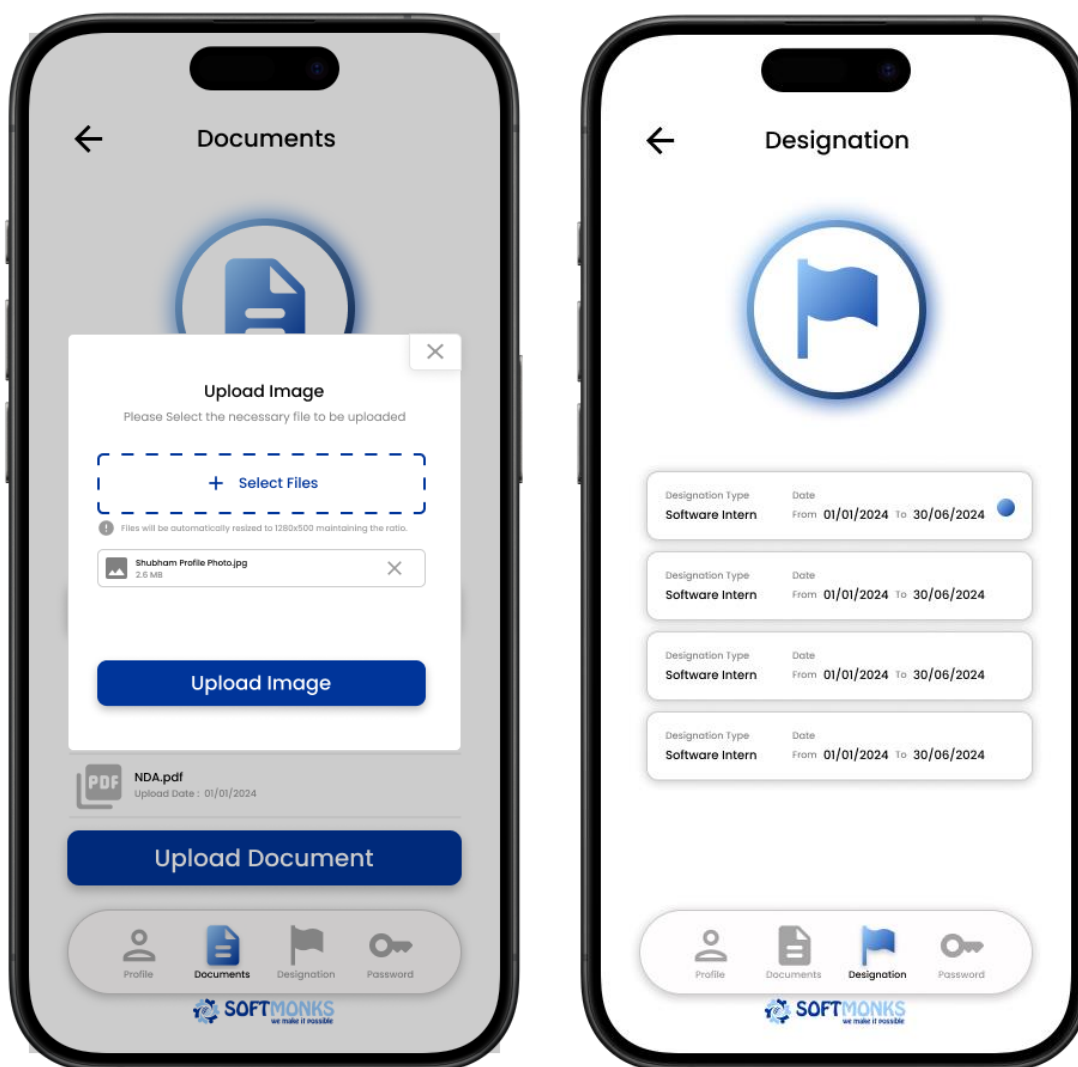
Apply Leave

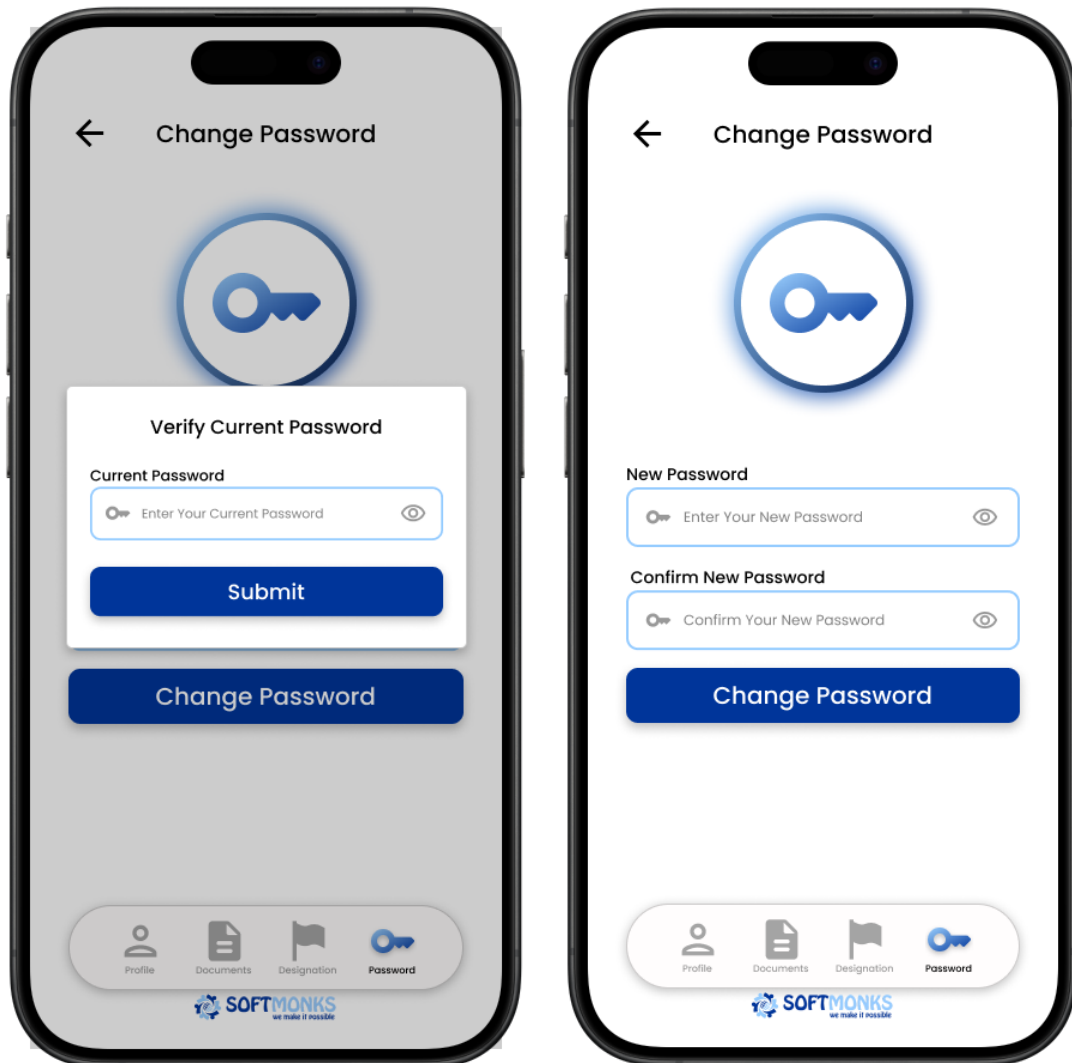
 **SOFTMONKS**
we make it possible

- Profile Module









- **Forgot Password**

The image displays two smartphone screens side-by-side, illustrating the steps of a password recovery process.


Left Screen: Recover Password

- Header: Recover Password (with a back arrow icon)
- Icon: A circular icon containing a padlock and a circular arrow, indicating a reset or recovery action.
- Text: Enter the email address associated with your account and we'll send an email with a 6 digit code to reset your password.
- Form: An input field labeled "Email" with a placeholder "Enter Your Email Address" and an envelope icon.
- Button: A blue button labeled "Send".
- Text: Already have an account ? [Log In](#)

Right Screen: Verification

- Header: Verification
- Icon: A circular icon containing an envelope with a checkmark, indicating successful verification.
- Text: We sent a 6-digit recovery code to your email. Verify the code to proceed.
- Form: A row of six input boxes, each containing the digit "0", for entering the 6-digit recovery code.
- Button: A blue button labeled "Verify".
- Text: Did not receive the email? Check your spam folder or [Resend Code](#) in 56s.

Create New Password




Your new password must be different from the previous password you used.

New Password

Confirm New Password

Reset Password

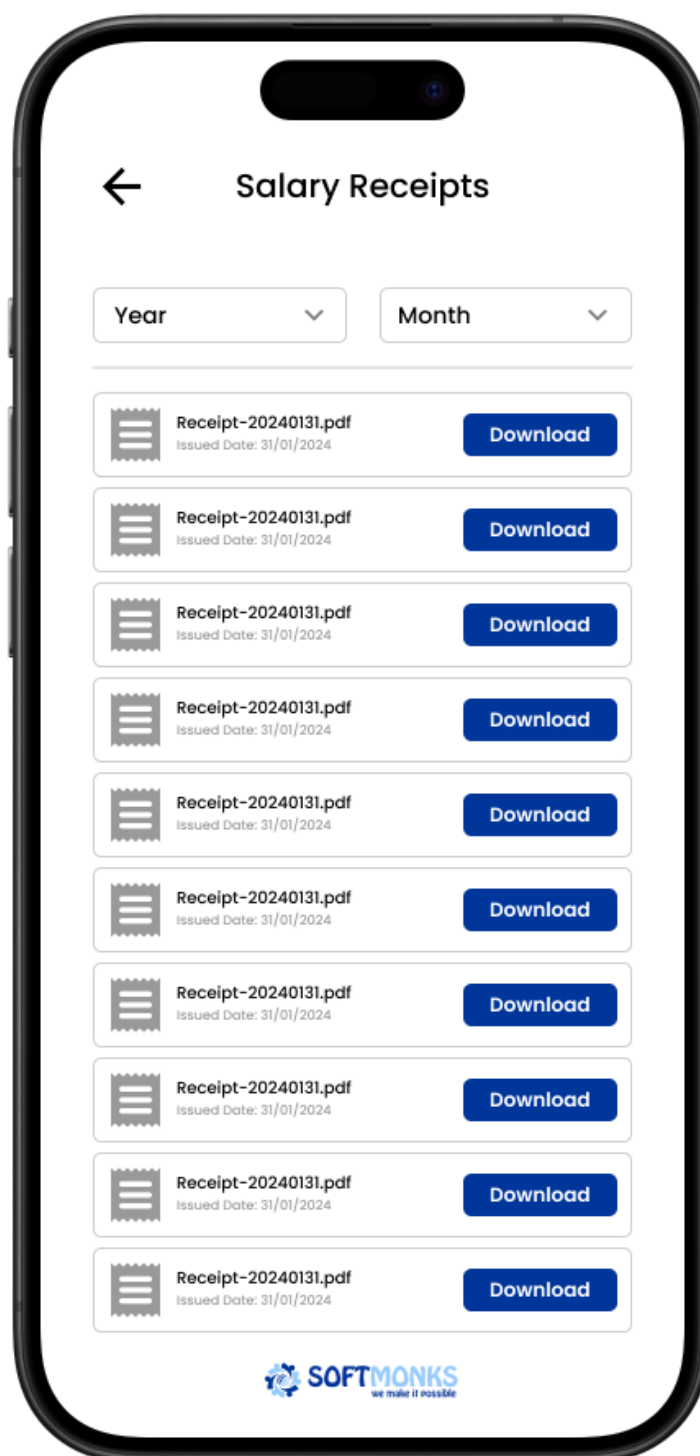
Password Reset Complete



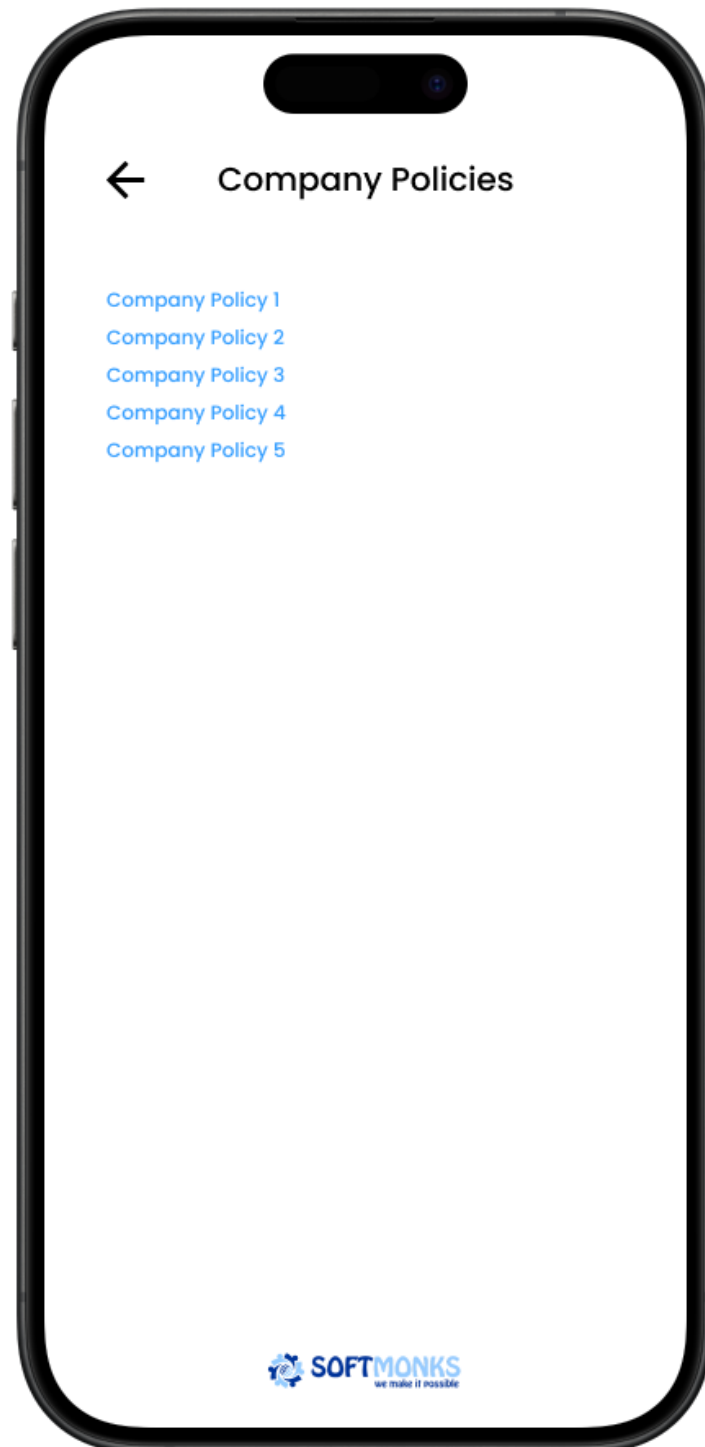
Your password reset was successful. You can now proceed to login to your account.

Go to Log In

- Salary Receipt



- **Company Policies**



CHAPTER III : LEARNINGS

3.1 Backend Development Skills

I gained significant experience in backend development, working on features such as user-based content visibility and leave request management. This involved writing PHP scripts, managing database connections, and developing APIs for various functionalities. This comprehensive backend work broadened my understanding of server-side development and reinforced the importance of robust, secure coding practices.

3.2 API Development and Integration

Writing API scripts to integrate the app with the backend was a key learning area. I developed and tested APIs for functionalities like leave management, profile updates, and document handling. This involved creating endpoints for CRUD operations and ensuring seamless data exchange between the frontend and backend. This experience emphasized the importance of well-structured APIs in modern web applications and mobile integrations.

3.3 Module Development and Debugging

I developed several modules, such as the Time Tracker, Calendar, Leave, and Staff modules, incorporating various functionalities and ensuring they worked as intended. Through extensive testing and debugging, I resolved issues related to data handling, UI structure, and functionality. This process highlighted the critical role of thorough testing and iterative development in delivering reliable and user-friendly software solutions.

3.4 Collaboration and Mentorship

Regular feedback and discussions with mentors played a crucial role in my learning process. Collaborating with experienced developers helped me refine my coding practices, understand complex concepts, and adopt best practices in software development. This collaborative environment fostered continuous improvement and a deeper understanding of teamwork in a professional setting.

3.5 Problem-Solving and Adaptability

Encountering and overcoming challenges, such as adapting to a new technology (PHP) quickly, troubleshooting email generation errors, and modifying pre-existing CMS functions, taught me the importance of adaptability and problem-solving. These experiences reinforced my ability to tackle unforeseen issues methodically and persistently, a valuable skill in any technical role.

3.6 TOOLS AND TECHNOLOGIES LEARNED

HTML



HTML (HyperText Markup Language) is the fundamental building block of web pages. It defines the structure and content of web content, like headings, paragraphs, images, and links. Imagine it as the skeleton of a web page.

CSS



CSS (Cascading Style Sheets) is the language that styles and beautifies web pages built with HTML. It controls the visual aspects of a web page, like fonts, colours, layout, and spacing.

JS



JS, which stands for JavaScript, is the programming language that brings web pages to life. It adds interactivity, animation, and dynamic behaviour to what would otherwise be static HTML and CSS content.



jQuery is a popular JavaScript library that simplifies interacting with HTML, CSS, and the Document Object Model (DOM).



phpMyAdmin provides a user-friendly web interface for managing MySQL databases, allowing for easy database administration tasks without needing SQL knowledge.



PHP (originally stood for Personal Home Page, now a recursive initialism for PHP: Hypertext Preprocessor) is a popular open-source scripting language specifically geared towards web development.



Postman is a software platform for building and using APIs (Application Programming Interfaces). It simplifies creating, testing, and managing APIs throughout their lifecycle.

CHAPTER IV : CHALLENGES

4.1 Adapting to New Technology: A Challenge and a Learning Experience

During my internship, one of the main challenges I faced was adapting to PHP within a week. Although PHP is relatively easy to learn and use, the steep learning curve was initially daunting. However, I quickly found that PHP's simplicity in managing databases and writing queries made the adaptation smoother than expected.

4.2 Working with a Built-in CMS Template

Our company utilizes a proprietary web-based CMS template to build modules. This template includes several built-in functions and pre-written code, which presented a unique challenge. Unlike developing code from scratch, modifying and understanding pre-existing code can be quite difficult. To tackle this, I dedicated time to learning the specific functions, syntax, jQuery, and core functionalities of the CMS.

4.3 Troubleshooting and Debugging Email Generation

The CMS had a function for generating emails, but it was giving errors due to missed steps. After spending considerable time troubleshooting and consulting with my mentor, I realized that there were certain prerequisites that needed to be met. The CMS template required specific data values to be correctly filled for the function to work. Understanding and fulfilling these prerequisites was crucial for the email generation function to operate correctly.

4.4 Document Upload Script Challenge

The primary challenge I encountered was writing a script for uploading documents into database tables. The CMS provided its own function for this task, but it was not inserting documents correctly because it required specific parameters to be provided. Writing a direct function often led to issues with parameters if the values or syntax were incorrect. Modifying and using the pre-written function from the CMS was particularly challenging.

4.5 Managing Timelines

Furthermore, managing project timelines and balancing multiple tasks while learning new technologies presented ongoing challenges throughout my internship. By embracing these challenges as opportunities for growth and learning, I was able to overcome obstacles, expand my skill set, and contribute effectively to the success of the projects I worked on.

Lessons Learned

Through this experience, I learned the importance of understanding the existing codebase and its requirements. Adapting to new technologies and frameworks quickly is a valuable skill, and the process of troubleshooting and debugging taught me the significance of thorough investigation and seeking guidance when necessary. This experience enhanced my problem-solving skills and my ability to work with pre-existing systems, preparing me for future challenges in software development.

APPENDIX I: Sample of work done

Problem Statement: Building TimeSheet Module

Tasks:

- The system diligently logs the sign-in, sign-out, and break times of employees within the organisation.
- It comprises two tabs: the "Timesheet" tab displays office hours and working durations, while the "Clock In/Out" tab showcases detailed records specific to each employee's entries.

This indicates the status of the entries made by the employee for that week.

Search TimeTracker

Select All

From 04/19/2024 - To 05/06/2024

+ ADD IN/OUT

DOWNLOAD

SEARCH

TimeTrackers

TIMESHEET

CLOCK IN/OUT

Showing 1 - 5 of NaN

Name	Total		Fri Apr 19	Sat Apr 20	Sun Apr 21	Mon Apr 22	Tue Apr 23
Sonia Kasar	3.8	IN BREAK	08:45 AM		11:39 PM	12:08 PM	02:03 PM
		OUT	09:38 AM		11:39 PM	01:02 PM - 02:34 PM	02:04 PM -
		HOURS	1.28		0	04:09 PM	2.48
Shubham Gaonkar	0.4	IN BREAK	06:08 PM			05:32 PM	12:12 PM
		OUT	06:08 PM			05:32 PM	12:10 PM - 12:10
		HOURS	0			0	12:12 PM - 12:12
SoniaGen Add last name	9.1	IN BREAK	08:57 AM	11:08 PM			
		OUT	06:00 PM	11:08 PM -			
		HOURS	9.05	0			
Shivakumar Harijan	4.1	IN BREAK	05:34 PM			06:13 PM	01:43 PM
		OUT	11:55 AM - 05:20 PM			03:52 PM -	12:06 PM - 12:19
		HOURS	05:46 PM - 05:47 PM05:47 PM			04:40 PM -	12:19 PM -
Rutvik Sawant	16.8	IN BREAK	05:48 PM	08:53 AM		08:51 AM	01:43 PM -
		OUT		06:17 PM		03:50 PM	12:23 PM
		HOURS	5.58	9.4		7.38	-1.55

On click of search button => A filter has been included to search for entries by a specific month, date range, or individual employee.

Search TimeTracker

Sonia Kasar

From 04/19/2024 - To 05/06/2024

+ ADD IN/OUT
DOWNLOAD
SEARCH

TimeTrackers

TIMESHEET
CLOCK IN/OUT

Showing 1 - 1 of NaN

Name	Total		Fri Apr 19	Sat Apr 20	Sun Apr 21	Mon Apr 22	Tue Apr 23	Wed Apr 24	Thu Apr 25	Fri Apr 26	Sat Apr 27
Sonia Kasar	3.8	IN	08:45 AM		11:39 PM	12:08 PM	02:03 PM	09:08 AM			
		BREAK				01:02 PM - 02:34 PM	02:04 PM -				
		OUT	09:38 AM		11:39 PM	04:09 PM	--	--			
		HOURS	1.28		0	2.48	0	--			

On click of add button => A popup form has been implemented to allow admin to add data records for a specific employee.

OUT

Mon Apr 29

Tue Apr 30

Wed May 1

Thu May 2

Fri May 3

Sat May 4

Sun May 5

IN

09:01

OUT

--

HOURS

--

IN

09:17

OUT

--

HOURS

--

IN

09:49 AM

BREAK

Add New Clock Record

Enter Agent Detail

Select Status

Select Clock Time

SAVE

Email

IN

On click of Download button => This report summarizes the weekly entries submitted by the employee.

AY9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do

EA1 : X ✓ fx Sun, Jun 02

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1			Wed, May 01				Thu, May 02				Fri, May 03			
2	Name	Total Hours	IN	BREAK	OUT	HOURS	IN	BREAK	OUT	HOURS	IN	BREAK	OUT	HOURS
3	Sonia Kasar	58.55					09:39 AM	01:26 PM - 01:55 PM	06:22 PM	8.14	08:39 AM		01:38 PM	4.59
4	Total	58.55				0				8.14				4.59

The CLOCK IN/OUT section provides a comprehensive overview of all entries made by the user. This includes actions such as sign-in, sign-out, going on break, and resuming work. Each entry is recorded to help track the user's daily activities and work hours accurately.

Search TimeTracker

Select All

From 04/29/2024 - To 05/06/2024

+ ADD IN/OUT

DOWNLOAD

SEARCH

TimeTrackers

TIMESHEET

CLOCK IN/OUT

Showing 1 - 20 of 592

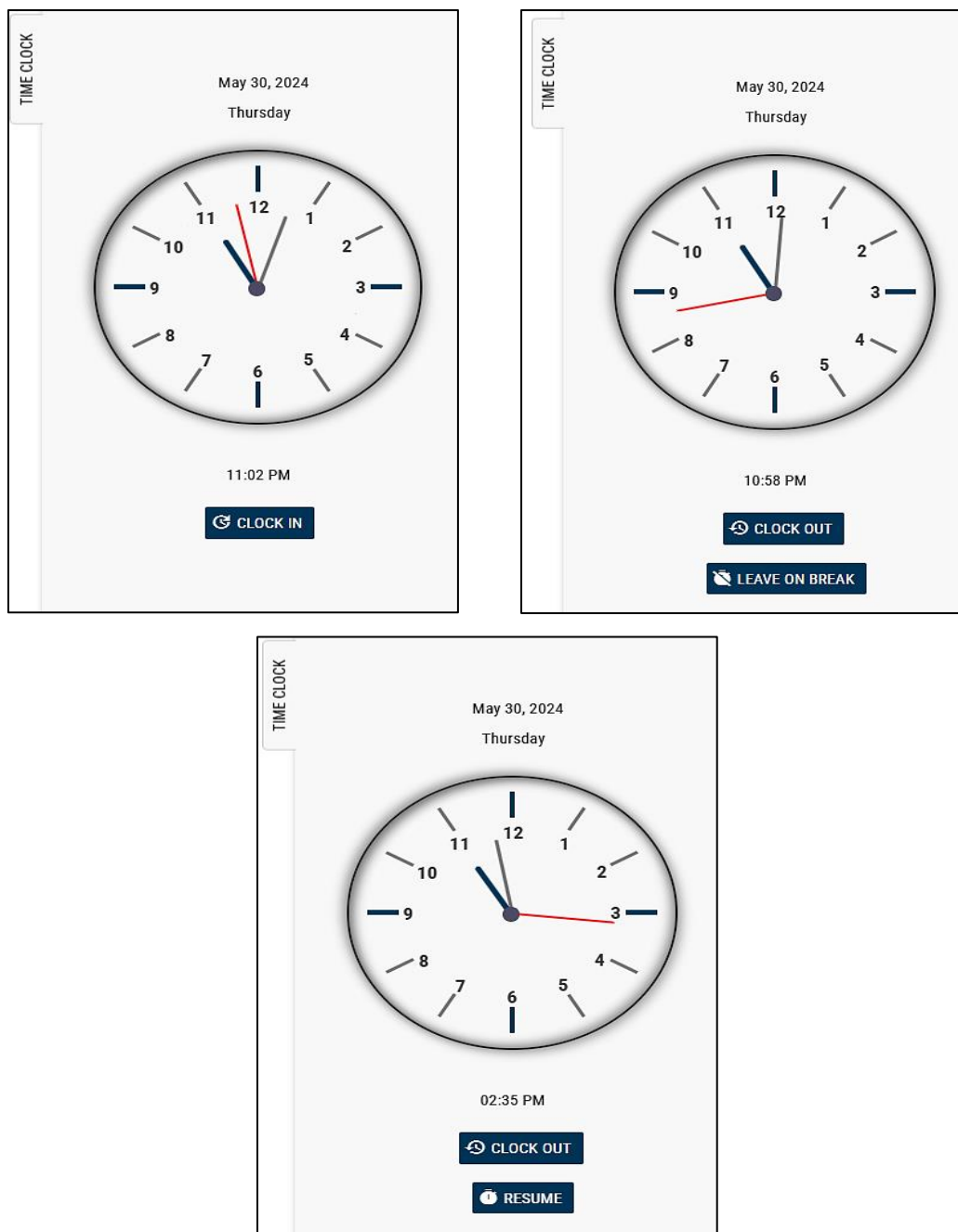
Show Page # 1Per Page 20

UserName	Status	ClockDateTime	Added On	
shivakumar@softmonks.com	IN	04/29/2024 10:07 AM	04/29/2024 04:37 AM	
sonia@softmonks.com	IN	04/29/2024 09:49 AM	04/29/2024 04:19 AM	
shubham@softmonks.com	IN	04/29/2024 09:17 AM	04/29/2024 03:47 AM	
rutvik@softmonks.com	IN	04/29/2024 09:01 AM	04/29/2024 03:31 AM	
shivakumar@softmonks.com	OUT	04/26/2024 11:08 AM	04/26/2024 05:38 AM	
shivakumar@softmonks.com	BACK	04/26/2024 11:08 AM	04/26/2024 05:38 AM	
shivakumar@softmonks.com	BREAK	04/26/2024 11:08 AM	04/26/2024 05:38 AM	

Problem Statement: Building Time Clock Module

Tasks:

- This widget mirrors the functionalities of a time clock, designed for both Android and iOS user interfaces.
- It showcases the current date, a live clock, and features two buttons: one for clocking in and out, and the other for taking breaks and returning.
- Button texts also changes accordingly.





Problem Statement: Building Calendar Module


Tasks:


- The provided screenshot depicts the current calendar interface being utilised. My task was to replicate its functionality for our application.
- This calendar allows users to view holidays, birthdays, and leave schedules for all individuals within the organisation.


CALENDAR


 Holiday


 Approved full day leave


 Applied full day leave


 Birthday


 Approved morning half day leave

 Applied morning half day leave

 Urgent Task

 Approved evening half day leave

 Applied evening half day leave

 High Priority Task

« May 2024

June 2024

Jul 2024 »

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
27	28	29	30	31	1	2 Shivakumar
3 Shivakumar	4 Shivakumar	5 Shivakumar	6	7	8	9 Shivakumar
10 Shivakumar	11 Shivakumar	12 Shivakumar Shivakumar	13 Shivakumar Shivakumar	14 Shubham Shivakumar	15 Shubham Shivakumar	16 Shubham
17 Shubham	18 Shubham	19 Shubham	20 Shubham	21	22	23
24 Shubham	25 Shubham	26 Shubham Shubham	27 Shubham Shubham	28 Shubham	29 SoniaGen Shubham	30

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
29	30	1 Labour Day	2	3 Sujata	4	5
6 Sujata	7 Sujata	8 Sujata	9	10	11 Sujata SoniaGen	12 Sujata
13 Sujata	14	15 Super	16	17	18	19
20	21	22 Shivakumar	23 Shivakumar Sonia	24 Sonia	25 Sonia	26 Shubham Shivakumar Sonia
27 Shivakumar	28 Shivakumar	29 Shivakumar	30 Shivakumar Shubham	31 Shubham Rutvik	1	2























Sun, 26 May 2024

Shubham Gaonkar's birthday
Shivakumar Harijan - Full Day leave
Sonia Kasar - Evening Half Day leave





Problem Statement: Building Staff Module

Tasks:

- This module is designed only for admin who has access to all details of the employees and permissions.

Initial	FirstName	LastName	UserName	Password	
SU	Super	User	setup@softmonks.com	*****	   
HG	Hanumant	Godekar	hanumant@softmonks.com	*****	 
SK	Sonia	Kasar	sonia@softmonks.com	*****	 
RS	Rutvik	Sawant	rutvik@softmonks.com	*****	 
SA	SoniaGen	Add last name	soniaGEN@softmonks.com	*****	   
RA	RutvikGEN	Add last name	rutvikGEN@softmonks.com	*****	 
SB	Sujata	Bagli	sujata@softmonks.com	*****	 
SH	Shivakumar	Harijan	shivakumar@softmonks.com	*****	 
SG	Shubham	Gaonkar	shubham@softmonks.com	*****	 

On click of edit button on the list, four tabs are opened. The Profile Tab displays the user's personal details to the admin, allowing the admin to add and update data.

Initial	FirstName	LastName	UserName	Password	
SK	Sonia	Kasar	sonia@softmonks.com	*****	   

Profile

Leaves

Designation

Document

Staff Code

IN03

Date Of Birth

28/06/2001

Alternate Email (Optional)

abc@yahoo.com

First Name

Sonia

Middle Name

Vishnu

Last Name

Kasar

Address

Sasoli Dodamarg Maharashtra.

Mobile Number

78904523

Residence Number

5127458268

Date of Joining

01/01/2024

Date of Leaving

Mole Identification Mark

RELOAD

SAVE

CLOSE

The Leaves Tab displays all leaves taken by the user and the list of leaves granted by the admin. The admin can approve or reject the user's leave requests, add leaves on behalf of the user, and delete leaves if necessary.

Staffs

Initial	FirstName	LastName	UserName	Password				
SK	Sonia	Kasar	sonia@softmonks.com	*****				

Profile
Leaves
Designation
Document

Leaves Taken:12/17
Leaves Available:5

Leaves Gained List

Days	Pages	Comments	
15	Q4 leave	Q4 leave	
2	Q4 leave	Q4 leave	

Leaves List

Leave Type	Day	From Date	To Date	Applied Date	Days	Approved	Rejected
fd	Tuesday	04/18/2024	04/22/2024	2024-09-04	5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
fd	Thursday	04/15/2024	04/17/2024	2024-04-18	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
mhd	Monday	05/24/2024	05/29/2024	2024-05-20	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
fd	Monday	05/17/2024	05/27/2024	2024-05-20	11	<input checked="" type="checkbox"/>	<input type="checkbox"/>
mhd	Tuesday	05/30/2024	05/31/2024	2024-05-28	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

The form below allows the admin to specify the number of leaves a user can take, along with the reason for the leaves. This number is customized for each individual user.

SK
Sonia
Kasar
sonia@softmonks.com

Profile
Leaves
Desi

Leaves Taken:12/17
Leaves Available:5

Leaves Gained

Days
Label

Comment

SAVE

The following section outlines the required details for adding a leave.

Add Leave Request

Leave Type
Select Leave Type

From Date To Date No. of Days
0

Reason:

Applied Date 30/05/2024 Day Thursday

SAVE

The Designation tab displays a list of designations for the user, which are exclusively added by the admin. The designation corresponding to the user's current position is marked as active, while other designation records are deactivated by the admin.

Staffs

Initial	FirstName	LastName	UserName	Password	
SK	Sonia	Kasar	sonia@softmonks.com	*****	

Profile Leaves **Designation** Document





Leaves List

Designation Type	Start Date	End Date	
Software Intern	01/01/2024	06/30/2024	



2024 Jun










Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						



The Document tab stores all documents uploaded by the user, with the option to view each document by clicking the "view" button.

Initial	FirstName	LastName	UserName	Password
SK	Sonia	Kasar	sonia@softmonks.com	   

Profile Leaves Designation **Document**





Image  

profileImg		C: May 24 2024, 1:20 AM M: May 24 2024, 1:20 AM       
emptypic1		C: May 24 2024, 2:32 AM M: May 24 2024, 2:32 AM  



Doc  

No Records

Selecting "add image" initiates a form allowing you to insert images through drag-and-drop functionality from your device.


Initial	FirstName	LastName	UserName	Password
SK	Sonia	Kasar	sonia@softmonks.com	   


Profile Leaves Designation **Document**










Image  



To upload, please [click here](#) to use the [crop tool](#) or simply drag-n-drop files here.

Files will be automatically resized to 1280x1280 maintaining the ratio.

Or type in the file ID to import into this file slot: 



















 992159

profileImg		C: May 24 2024, 1:20 AM M: May 24 2024, 1:20 AM       
emptypic1		C: May 24 2024, 2:32 AM M: May 24 2024, 2:32 AM  

Doc  

No Records

Clicking on "add document" activates a form where you can insert documents such as PDFs, DOCX files, Excel sheets, etc., using drag-and-drop functionality from your device.

SK	Sonia	Kasar	sonia@softmonks.com	   
Profile	Leaves	Designation	Document	
Image  				
profileimg		C: May 24 2024, 1:20 AM M: May 24 2024, 1:20 AM	      	
emptypic1		C: May 24 2024, 2:32 AM M: May 24 2024, 2:32 AM	 	
Doc  				
<div><p>Drag-n-drop files here to upload.</p><p>Or type in the file ID to import into this file slot: <input type="text"/> </p></div>				
No Records				

Problem Statement: Building Profile Module

Tasks:

- This module caters to every employee, offering comprehensive details about each individual.
- The "Profile" tab presents personal information.

Profile

SK	Sonia	Kasar	sonia@softmonks.com	*****
----	-------	-------	---------------------	-------

Profile

Leaves

Designation

Documents

Staff Code

IN03

Date of Birth

06/28/2001

Alternate Email (Optional)

abc@yahoo.com

First Name

Sonia

Middle Name

Vishnu

Last Name

Kasar

Address

Sasoli Dodamarg Maharashtra.

Mobile Number

78904523

Residence Number

5127458268

Date of Joining

01/01/2024

Date of Leaving

Mole Identification Mark

RELOAD

SAVE

"Leave" tab exhibits all leave instances taken by the employee.

Profile

SK

Sonia

Kasar

sonia@softmonks.com

Profile

Leaves

Designation

Documents

Leaves Taken:12/17

Leaves Available:5

Leaves

Showing 1 - 5 of 5

Show Page # 1 Per Page 10

Leave Type	Day	From Date	To Date	Applied Date	Days	Approved	Rejected
Morning Half Day	Tuesday	05/30/2024	05/31/2024	2024-05-28	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Full Day	Monday	05/17/2024	05/27/2024	2024-05-20	11	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Morning Half Day	Monday	05/24/2024	05/29/2024	2024-05-20	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Full Day	Thursday	04/15/2024	04/17/2024	2024-04-18	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Full Day	Tuesday	04/18/2024	04/22/2024	2024-09-04	5	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Users can add leaves by completing all the necessary details in the provided form.

Profile

SK

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Profile

Leaves

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Leaves Taken:12/17

Leaves Available:5

Leaves

Showing 1 - 5 of 5

Show Page # 1 Per Page 10

Leave Type	Day	From Date	To Date	Applied Date	Days	Approved	Rejected
Morning Half Day	Tuesday	05/30/2024	05/31/2024	2024-05-28	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Full Day	Monday	05/17/2024	05/27/2024	2024-05-20	11	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Morning Half Day	Monday	05/24/2024	05/29/2024	2024-05-20	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Full Day	Thursday	04/15/2024	04/17/2024	2024-04-18	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Full Day	Tuesday	04/18/2024	04/22/2024	2024-09-04	5	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Add Leave Request

Leave Type

Select Leave Type

From Date

To Date

No. of Days

0

Reason:

Applied Date

30/05/2024

Day

Thursday

SAVE

Prior to approval or rejection, employees are able to adjust the leave type, start date, and end date, with the number of days being updated accordingly.

Profile

SK

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Kasar

sonia@softmonks.com

Profile

Leaves

Designation

Documents

Leaves Taken:12/17

Leaves Available:5

Leaves

Showing 1 - 5 of 5

Show Page # 1

Per Page 10

Leave Type	Day	From Date	To Date	Applied Date	Days	Approved	Rejected
Morning Half Day	Tuesday	05/30/2024	05/31/2024	2024-05-28	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>

2024

May

Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

"Designation" tab showcases the employee's past roles and their current position within the office.

Profile

SK

Sonia

Kasar

sonia@softmonks.com

Profile

Leaves

Designation

Documents





Showing 1 - 1 of 10

Show Page # 1



Per Page 20










Designation Type	Start Date	End Date
Software Intern	01/01/2024	30/06/2024



The Document tab stores all documents uploaded by the user, with the option to view each document by clicking the "view" button.

Initial	FirstName	LastName	UserName	Password
SK	Sonia	Kasar	sonia@softmonks.com	   

Profile Leaves Designation **Document**

Image  



profileImg		C: May 24 2024, 1:20 AM M: May 24 2024, 1:20 AM	      
emptypic1		C: May 24 2024, 2:32 AM M: May 24 2024, 2:32 AM	 

Doc  

No Records


Selecting "add image" initiates a form allowing you to insert images through drag-and-drop functionality from your device.


SK	Sonia	Kasar	sonia@softmonks.com
Profile	Leaves	Designation	Document










Image  



To upload, please [click here](#) to use the [crop tool](#) or simply drag-n-drop files here.

Files will be automatically resized to 1280x1280 maintaining the ratio.

Or type in the file ID to import into this file slot: 

 992159

profileImg		C: May 24 2024, 1:20 AM M: May 24 2024, 1:20 AM	      
emptypic1		C: May 24 2024, 2:32 AM M: May 24 2024, 2:32 AM	 

Doc  

No Records





Clicking on "add document" activates a form where you can insert documents such as PDFs, DOCX files, Excel sheets, etc., using drag-and-drop functionality from your device.

SK

Sonia

Kasar

sonia@softmonks.com





Profile












Leaves

Designation



Document

Image




profilelmg		C: May 24 2024, 1:20 AM M: May 24 2024, 1:20 AM	      
emptypic1		C: May 24 2024, 2:32 AM M: May 24 2024, 2:32 AM	 

Doc



Drag-n-drop files here to upload.

Or type in the file ID to import into this file slot: 

No Records

Problem Statement: Building Holiday Module

Task :-

- This page is exclusively designated for administrators, enabling them to input and manage yearly holidays to be showcased on the calendar interface.
- Add or modify dates and event name and note.

Search Holidays








Custom 04/22/2024 - 04/29/2024

SEARCH

Events

Showing 1 - 5 of 5

Show Page # 1 Per Page 20

Label	
Independance Day	  
Ganesh Chaturthi	
Gudi Padwa	
Labour Day	
abc	

Search Holidays




Custom 04/22/2024 - 04/29/2024

SEARCH

Events

Showing 1 - 5 of 5

Show Page # 1 Per Page 20

Independance Day	  
------------------	---

Event Name

Independance Day

Calendar Name

Independance Day

From Date

08/15/2024

To Date

08/15/2024

From Time

00:00

To Time

23:59

Note

fdgh658

RELOAD

SAVE

CLOSE

APPENDIX II: Photos while working



CHAPTER V: REFERENCES

- JavaScript Notes
<https://www.w3schools.com/js/>
- HTML Notes
<https://www.w3schools.com/html/>
- CSS Notes
<https://www.w3schools.com/css/>
- PHP Notes
<https://www.w3schools.com/php/>
- jQuery Notes
<https://www.w3schools.com/jquery/>
- Learn PHP & AJAX
https://www.youtube.com/playlist?list=PL0b6OzIxLPbxO0_8Av3c-9_15RM5uJK8U
- PHP Spreadsheet
<https://www.youtube.com/playlist?list=PLfZdD6t4BR8Po8-G2H0e8UFIBpyDpBzHs>