

SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

SRM Nagar, Kattankulathur, Chengalpattu District - 603203, Tamil Nadu.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REPORT

on

“1904716 - INTERNSHIP”

at

**SUNDARAM INFOTECH SOLUTIONS LIMITED (A DIVISION OF
SUNDARAM FINANCE)**



SUBMITTED BY

142222104148 - SHRUTHI B

SEVENTH SEMESTER

2025-2026

SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

SRM Nagar, Kattankulathur - 603203.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that **SHRUTHI B** (Reg.No.142222104148) - VII Semester, B.E (Computer Science and Engineering) has completed the Internship in “**WEB DEVELOPMENT**” during the period 9th June 2025 to 30th June 2025 at “**SUNDARAM INFOTECH SOLUTIONS LIMITED (A DIVISION OF SUNDARAM FINANCE)** ” and has been submitted to Anna University.

SIGNATURE OF MENTOR

Mrs. S. SUMA , B.E.,M.S.,
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SRM Valliammai Engineering College,
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Submitted for the university examination held on _____ at
SRM Valliammai Engineering College, Kattankulattur.

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We sincerely express our gratitude in depth to our esteemed Founder Chairman & Chancellor **Dr. T. R. Paarivendhar, Thiru. Ravi Pachamoothoo** Chairman SRM Group & Pro-Chancellor (Admin). **Mrs. R. Harini**, Correspondent, SRM VEC and authorities of **SRM VALLIAMMAI ENGINEERING COLLEGE** for the patronage on our welfare rooted in the academic year.

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I am extremely grateful to the staff members and friends in my department who helped me in the successful completion of this internship.

VISION AND MISSION

VISION

To devise captivating, fascinating, and unique practices of teaching that discovers the trained talent and inherent competences of young minds to evolve as humane professional Computer Science Engineers.

MISSION

- To provide students with challenging ventures, contributing to the betterment of their selfdom to compete with international talents.
- To act as a motivational hub to exhibit practical knowledge with the latest technological updates and research publications.
- To render ample knowledge to exhibit their ubiquitous talents for the social prosperity and promote industry-institute harmony to upgrade the standards for the international reputation.

ABSTRACT

Web development involves building and maintaining websites and web applications that deliver seamless and interactive experiences to users. This domain is predominantly associated with web developers who specialize in designing intuitive user interfaces and crafting engaging user experiences on the client side.

In this project, the focus is on **front-end development**, which refers to the user-facing part of the application — everything the user sees and interacts with directly. The front-end is built using modern technologies and frameworks that ensure responsiveness, accessibility, and smooth performance across devices and platforms.

For this project, the **React** framework is employed for front-end development, along with **HTML**, **CSS**, and **JavaScript**. React is a powerful and widely-used JavaScript library for building dynamic, component-based user interfaces. Its declarative nature and reusable components make it ideal for creating efficient and maintainable web applications.

These technologies collectively create a responsive, interactive, and efficient web application, showcasing a well-rounded approach to modern front-end development. By leveraging React and related tools, developers can deliver: Smooth navigation and dynamic updates without page reloads. Modular, reusable components for better maintainability. Responsive layouts that work seamlessly across different devices.

This approach ensures that the web application meets user needs effectively while maintaining high performance, scalability, and ease of future enhancements.

1.INTRODUCTION

1.1 INTERNSHIP OVERVIEW

This report highlights my 16-day internship experience in Front-End Web Development at Sundaram Infotech Solutions Limited, a leading global provider of IT solutions and consulting services. The internship aimed to bridge theoretical knowledge with practical application in web development. During this brief yet intensive period, I focused on the front-end aspects of web applications, gaining hands-on experience in building responsive and interactive user interfaces using React, along with HTML, CSS, and JavaScript. I worked on developing dynamic, component-based web applications that deliver seamless user experiences across devices.

1.2 OBJECTIVES

1. **Skill Acquisition:** Develop proficiency in front-end (HTML5, CSS3, JavaScript, React) technologies.
2. **Project Implementation:** Participate in creating responsive, scalable, and secure web applications using modern development practices.
3. **Collaboration:** Work with multidisciplinary teams to enhance problem-solving and communication skills.
4. **Problem-Solving:** Apply critical thinking to address complex technical challenges throughout the development lifecycle.
5. **Industry Insight:** Understand industry standards, best practices, and emerging trends in web development.

2.COMPANY PROFILE

Sundaram Infotech Solutions Limited, headquartered in Chennai, India, is a trusted provider of IT solutions and consulting services, and part of the renowned **Sundaram Finance Group**. Established to deliver technology-driven business solutions, the company has earned a strong reputation for delivering reliable, customer-focused, and innovative services to enterprises across industries.

Sundaram Infotech specializes in providing comprehensive IT solutions including **Enterprise Resource Planning (ERP) implementations, Software Development, Web Development, Cloud Services, Application Support & Maintenance, and IT Consulting**. With a focus on Microsoft Dynamics solutions and other leading technologies, the company has successfully served diverse industries such as **Financial Services, Manufacturing, Retail, and Logistics**, helping businesses enhance their operational efficiency and customer engagement.

The company is known for its commitment to **quality, integrity, and customer satisfaction**, backed by a team of skilled professionals with deep expertise and experience in delivering tailored solutions. By combining technological expertise with domain knowledge, Sundaram Infotech helps businesses seamlessly adopt digital transformation and achieve their strategic objectives.

Website:	https://www.sundaraminfotech.in
Industry:	IT Services and IT Consulting
Headquarters:	Chennai, Tamil Nadu
Type:	Privately Held
Founded:	2020
Specialties:	ERP, Software & Web Development, Cloud Services, and IT Consulting.

3. INTERNSHIP DESCRIPTION

DOMAIN: WEB DEVELOPMENT

3.1 ROLE AND RESPONSIBILITIES

My responsibilities were focused on gaining practical experience in the field of **front-end web development**, with emphasis on building responsive and interactive user interfaces using modern tools and frameworks.

The key responsibilities included:

1. Front-End Development: Designing and developing user interfaces using **React**, along with **HTML5**, **CSS3**, and **JavaScript**, to create responsive and visually appealing web pages.

2. Component-Based Design: Building reusable and modular components in React to ensure maintainability and scalability of the application.

3. Project Collaboration: Collaborating with team members to understand project requirements and contribute effectively to the development process.

4. Code Review and Testing: Testing components for functionality and responsiveness, identifying and fixing issues to ensure a smooth user experience.

5. Troubleshooting and Debugging: Resolving UI-related bugs and optimizing performance to deliver a seamless application.

6. Continuous Learning: Keeping up with best practices and new trends in front-end development to improve skills and apply innovative solutions during the internship.

4. TECHNOLOGIES USED

4.1 HTML:

HTML (HyperText Markup Language) is the standard markup language used to create and structure content on the web. It provides the foundational elements that define the layout, headings, paragraphs, links, forms, and other content of a web page. HTML5, the latest version, introduces new semantic elements like `<header>`, `<footer>`, `<article>`, and `<section>` that enhance the clarity and accessibility of the page structure. It also supports multimedia content natively with tags such as `<audio>` and `<video>`, and provides APIs for features like offline storage and geolocation. In this project, HTML was used to define the basic structure and components of the web application interface.

4.2 CSS:

CSS (Cascading Style Sheets) is the styling language used to control the appearance and layout of HTML elements on a web page. It allows developers to apply fonts, colors, spacing, alignment, and responsive layouts to ensure the application looks visually appealing across different devices and screen sizes. CSS3, the latest version, introduces advanced features such as transitions, animations, gradients, flexbox, and grid layouts, enabling developers to create sophisticated designs and effects. In this project, CSS was employed to style the React components and enhance the user interface, ensuring consistency and a modern, professional look throughout the application.

4.3 JAVASCRIPT:

JavaScript is a versatile, high-level programming language that brings interactivity and dynamic behavior to web applications. It allows developers to manipulate

HTML and CSS in real time, respond to user events, validate forms, fetch data from servers, and much more. Modern JavaScript (ES6 and beyond) introduces powerful features like arrow functions, template literals, modules, classes, and async/await, making the code more readable, efficient, and maintainable. In this project, JavaScript was used in conjunction with React to handle application logic, manage state, implement user interactions, and update the user interface dynamically without reloading the page.

4.4 REACT

React is a powerful and widely used JavaScript library developed by Facebook for building interactive and dynamic user interfaces. It enables developers to create reusable, modular components that encapsulate their own structure, style, and behavior, promoting better code organization and maintainability. React's virtual DOM (Document Object Model) efficiently updates only the parts of the page that change, resulting in improved application performance and a seamless user experience. Its declarative syntax allows developers to describe the desired UI state, and React takes care of rendering it, making the development process faster and less error-prone. React also supports unidirectional data flow, which makes it easier to manage application state and debug code.

5. INTERNSHIP PROJECT

PROJECT TITLE: iLounge – A Complete Digital Platform for Insurance Agents to Manage Proposals, Claims, and Renewals

The **iLounge Insurance Portal** is a comprehensive, web-based application developed for Royal Sundaram Insurance to simplify and streamline daily operations for field agents and sales executives. This interactive dashboard allows users to manage sales proposals, claims, policy renewals, commissions, quick quotes, and track overall performance—all from a centralized platform.

This responsive and intuitive system improves user experience for insurance agents by integrating essential business tools and analytics into a single interface, thereby boosting productivity and operational visibility.

5.1 OBJECTIVE:

The primary objective of the **iLounge** portal is to provide insurance agents with a **unified digital workspace** to efficiently manage client policies, renewals, sales targets, and claims. The platform is built to reduce manual effort, enable real-time tracking, and enhance decision-making through data-driven dashboards and insights.

5.2 KEY FEATURES:

5.2.1 Secure Login with OTP & Password Options: Ensures authenticated access for agents with options to login using OTP or password.

5.2.2 Sales Dashboard with Targets & Insights: Displays premium collection status, sales targets, performance comparisons, and reward milestones in real-time.

5.2.3 Proposals Management: Track customer policy proposals categorized by status (Approved, Pending, Rejected), with quick actions and filters for Motor, Health, and Commercial segments.

5.2.4 Renewals Calendar View with Date Filtering: Interactive calendar-based filtering of policy renewals by day, week, or month. Agents can also filter policies by custom date range using the calendar.

5.2.5 Reminder Actions via WhatsApp & SMS: Send instant reminder messages to customers via WhatsApp or SMS directly from the Renewals or Proposals sections, improving communication efficiency.

5.2.6 Quick Quote Generation: Agents can initiate instant quotes for different policy types such as Motor, Non-Motor, and Commercial products.

5.2.7 Bulk Download of Renewals Data: Download policy or renewal records in bulk for offline review or sharing, helping agents manage large sets of records efficiently.

5.2.8 Pending Activities Panel: Shows a quick overview of tasks like EMI records, cancellations, balance dues, and pending differences that require agent attention.

5.2.9 Digital Library & Knowledge Center: Empowers agents with access to training resources, sales guides, policy documents, and best practices.

5.2.10 Mobile App Promotion & QR Integration: Encourages users to download the iLounge Mobile App through an embedded QR code for on-the-go access.

5.3 DESIGNED WEBPAGES:

- LoginPortal.jsx
- Dashboard.jsx
- Proposals.jsx
- Renewals.jsx
- KnowledgeCenter.jsx
- QuickLinks.jsx
- QuickQuotes.jsx
- SalesInsights.jsx
- MobileSideBar.jsx
- Header.jsx

5.4 TECHNOLOGIES & SOFTWARE USED:

- **Frontend:** React.js, CSS
- **IDE:** VSCODE
- **API Integration :**OTP Service API
- **Development Server:**Vite

5.5 IMPLEMENTATION

1. Creating the Project:

```
PS C:\Users\dell\Desktop\Project> npm create vite@latest
Need to install the following packages:
create-vite@7.0.3
Ok to proceed? (y) y

> npx
> create-vite

◇ Project name:
  ilounge
◇ Select a framework:
  React
◇ Select a variant:
  JavaScript
◇ Scaffolding project in C:\Users\dell\Desktop\Project\ilounge...

Done. Now run:

cd ilounge
npm install
npm run dev
```

2. In a web browser, Enter <http://localhost:5174/>

```
PS C:\Users\dell\Desktop\Project> cd ilounge
PS C:\Users\dell\Desktop\Project\ilounge> npm install

added 152 packages, and audited 153 packages in 31s

33 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS C:\Users\dell\Desktop\Project\ilounge> npm run dev

> ilounge@0.0.0 dev
> vite

Port 5173 is in use, trying another one...

VITE v7.0.6 ready in 390 ms

→ Local:   http://localhost:5174/
→ Network: use --host to expose
→ press h + enter to show help
```

Fig:2

6.SOURCE CODE

6.1 LOGINPORTAL.JSX:

```
import React, { useState, useEffect } from 'react';

import './LoginPortal.css';

import dashboardImage from '../assets/bike1.png';
import logo from '../assets/logo1.png';

const LoginPortal = ({ onLoginSuccess }) => {

  const [loginMethod, setLoginMethod] = useState(null);

  const [username, setUsername] = useState("");

  const [mobileNumber, setMobileNumber] = useState('+91xxxxxxxx57');

  const [email, setEmail] = useState('user@example.com');

  const [otp, setOtp] = useState("");

  const [password, setPassword] = useState("");

  // State for password reset

  const [newPassword, setNewPassword] = useState("");

  const [confirmPassword, setConfirmPassword] = useState("");

  // UI state

  const [loading, setLoading] = useState(false);

  const [step, setStep] = useState(1);

  const [showModal, setShowModal] = useState(false);

  const [forgotPasswordStep, setForgotPasswordStep] = useState(1);

  const [generatedOtp, setGeneratedOtp] = useState("");

  const [error, setError] = useState("");
```



```
const [showSuccessModal, setShowSuccessModal] = useState(false);

const [showAlertModal, setShowAlertModal] = useState(false);

const [alertMessage, setAlertMessage] = useState("");

const [alertTitle, setAlertTitle] = useState("");

// Initialize credentials from localStorage or set defaults

const [userCredentials, setUserCredentials] = useState(() => {

  const savedCredentials = localStorage.getItem('userCredentials');

  return savedCredentials

    ? JSON.parse(savedCredentials)

    : { username: 'Ajithkumar', password: '123456789' };

});

// Save credentials to localStorage whenever they change

useEffect(() => {

  localStorage.setItem('userCredentials', JSON.stringify(userCredentials));

}, [userCredentials]);

const OTP_API_BASE_URL = "http://172.26.18.201:8080";

const SEND_OTP_URL = `${OTP_API_BASE_URL}/login-with-otp`;

const VERIFY_OTP_URL = `${OTP_API_BASE_URL}/verify-otp`;

const showAlert = (title, message) => {

  setAlertTitle(title);

  setAlertMessage(message);

  setShowAlertModal(true);

};
```

```

const generateOtp = () => {
  const otp = Math.floor(100000 + Math.random() * 900000).toString();
  setGeneratedOtp(otp);
  sessionStorage.setItem('otp', otp);
  sessionStorage.setItem('otpExpiration', Date.now() + 600000);
  return otp;
};

return (
  <div className="split-container">
    <div className="features-section">
      <img
        src={dashboardImage}
        alt="Dashboard Preview"
        className="dashboard-image"
      />
      <h3>Track your Daily activities</h3>
      <p className="features-description">
        All your claims, renewals and <br></br> proposals in one application
      </p>
    </div>

    <div className="login-section">
      <div className="ilounge-card">
        <div className="header">

```

```
<img
  src={logo}
  alt="logo Preview"
  className="logo-image"
/>

</div>

<ErrorMessage message={error} />

{step === 1 && (
  <
    <h1>Welcome to <span>iLounge</span></h1>
    <p className="subtitle">Enter your credentials to access your account</p>
    <div className="floating-label-group">
      <label htmlFor="username">Username</label>
      <input
        id="username"
        type="text"
        value={username}
        onChange={(e) => setUsername(e.target.value)}
        placeholder=""
      />
    </div>
    <div className="login-options">
      <button
        className="otp-button"
```

```

        onClick={handleSendOtp}

        disabled={loading}

    >

        {loading ? 'Sending OTP...' : 'Send OTP'}

    </button>

    <div className="or-divider">Or</div>

    <a

        className="text-login-option"

        onClick={() => {

            setLoginMethod('password');

            setStep(2);

        }}

        disabled={loading}

    >

        Login with Password

    </a>

</div>

</>

)}}

{step === 2 && loginMethod === 'password' && (

    <

        <h1>Welcome to <span>iLounge</span></h1>

        <p className="subtitle">Enter your credentials to access your account</p>

        <form onSubmit={handlePasswordLogin} className="password-form">

```

```
<div className="floating-label-group">
  <label htmlFor="username">Username</label>
  <input
    id="username"
    type="text"
    value={username}
    readOnly
  />
</div>

<div className="floating-label-group">
  <label>Password</label>
  <input
    type="password"
    value={password}
    className='password'
    onChange={(e) => setPassword(e.target.value)}
    placeholder="Enter your password"
  />
</div>

<div className="forgot-password">
  <a type="button" className="text-button" onClick={() => setStep(3)}>
    Forgot Password?
  </a>
</div>
```

```

<button
  type="submit"
  className="login-button1"
  disabled={loading || !password}
>
  {loading ? 'Logging in...' : 'Login'}
</button>

<div className="alternative-option">
  <span className='or-divider'>Or</span>

  <a
    type="button"
    className="text-login-option"
    onClick={() => setLoginMethod('otp')}
    disabled={loading}
  >
    Login with OTP
  </a>
</div>
</form>
</>
)}

{step === 2 && loginMethod === 'otp' && (
  <
    <h1>Welcome to <span>iLounge</span></h1>

```

```
<p className="subtitle">Enter your credentials to access your account</p>
```

```
<div className="floating-label-group">
```

```
  <label htmlFor="username">Username</label>
```

```
  <input
```

```
    id="username"
```

```
    type="text"
```

```
    value={username} readOnly
```

```
  />
```

```
</div>
```

```
<p className='otp'>
```

```
  OTP has been sent to {email}
```

```
</p>
```

```
<form onSubmit={handleOtpLogin} className="otp-boxes-form">
```

```
  <div className="otp-boxes">
```

```
    {[...Array(6)].map((_, index) => (
```

```
      <input
```

```
        key={index}
```

```
        type="password"
```

```
        maxLength="1"
```

```
        className="otp-input"
```

```
        value={otp[index] || ""}
```

```
        onChange={(e) => {
```

```
          const value = e.target.value;
```

```
          if (/^\d$/.test(value)) {
```

```
const newOtp = otp.split("");
newOtp[index] = value;
setOtp(newOtp.join(""));
if (value && e.target.nextElementSibling) {
  e.target.nextElementSibling.focus();
}
}
}}
onKeyDown={e => {
  if (e.key === 'Backspace') {
    if (otp[index]) {
      const newOtp = otp.split("");
      newOtp[index] = "";
      setOtp(newOtp.join(""));
    } else if (index > 0) {
      const prevInput = e.target.previousElementSibling;
      if (prevInput) prevInput.focus();
    }
  } else if (e.key === 'ArrowLeft' && index > 0) {
    const prevInput = e.target.previousElementSibling;
    if (prevInput) prevInput.focus();
  } else if (e.key === 'ArrowRight' && index < 5) {
    const nextInput = e.target.nextElementSibling;
    if (nextInput) nextInput.focus();
  }
}
```



```
        }
      }}
      disabled={loading}
    />
  )))}
</div>

<div className="resend-otp">
  <button
    type="button"
    className="text-button"
    onClick={handleSendOtp}
    disabled={loading}
  >
    Resend OTP
  </button>
</div>

<button
  type="submit"
  className="login-button"
  disabled={loading || otp.length !== 6}
>
  {loading ? 'Verifying...' : 'Login'}
</button>
</form>
```

```
    </>
  )}
  { showAlertModal && (
    <div className="alert-modal">
      <div className="alert-modal-content">
        <h3>{ alertTitle }</h3>
        <p>{ alertMessage }</p>
        <button
          className="alert-modal-button"
          onClick={() => setShowAlertModal(false)}
        >
          OK
        </button>
      </div>
    </div>
  )}
</div>
</div>
</div>
);
};
export default LoginPortal;
```

7. OUTPUT:

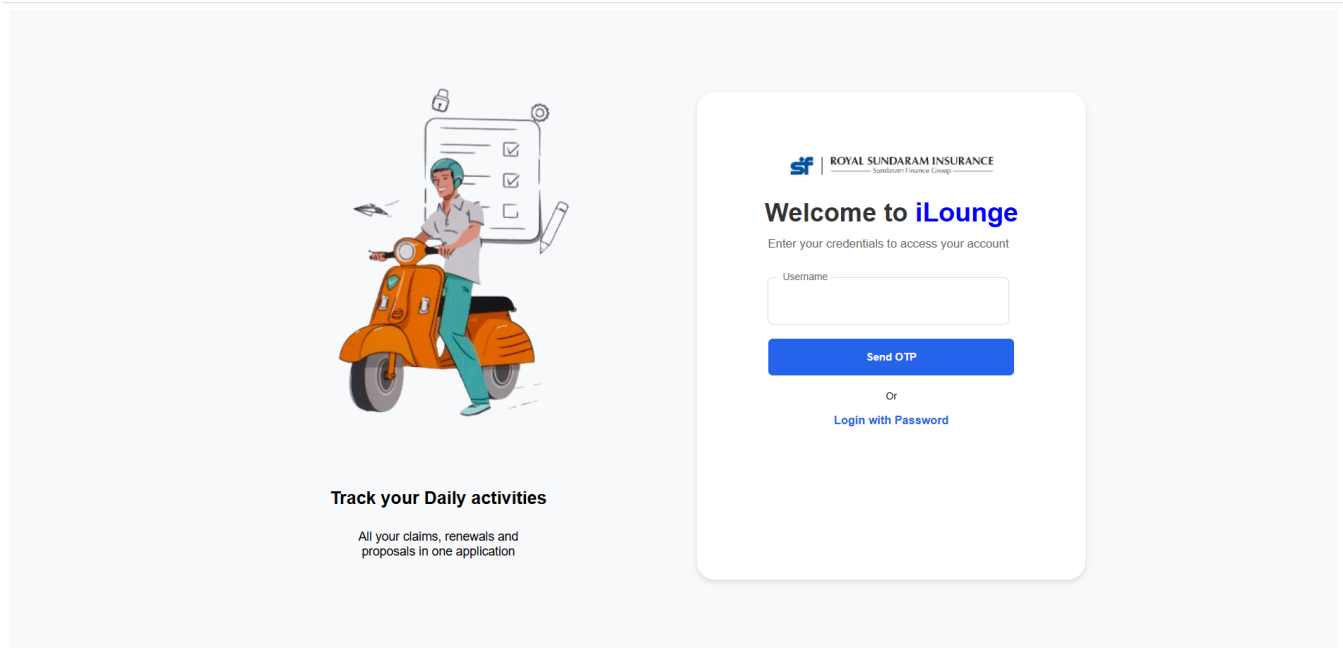


Fig 1

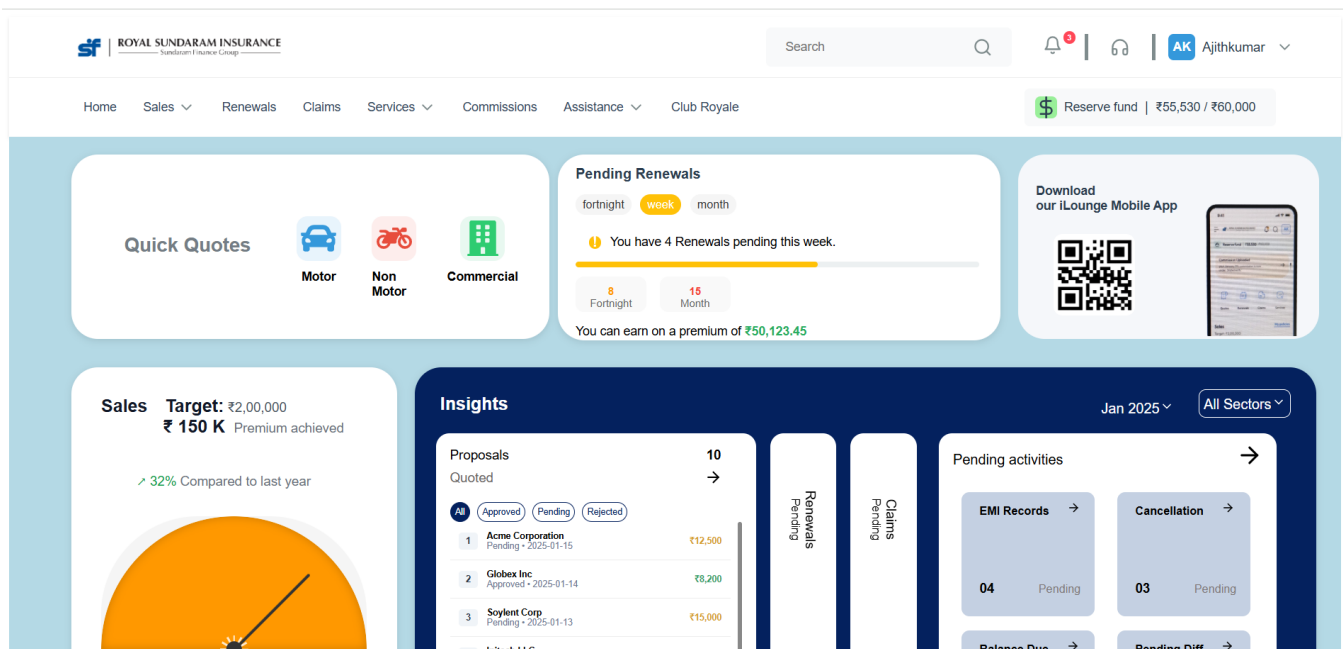


Fig 2

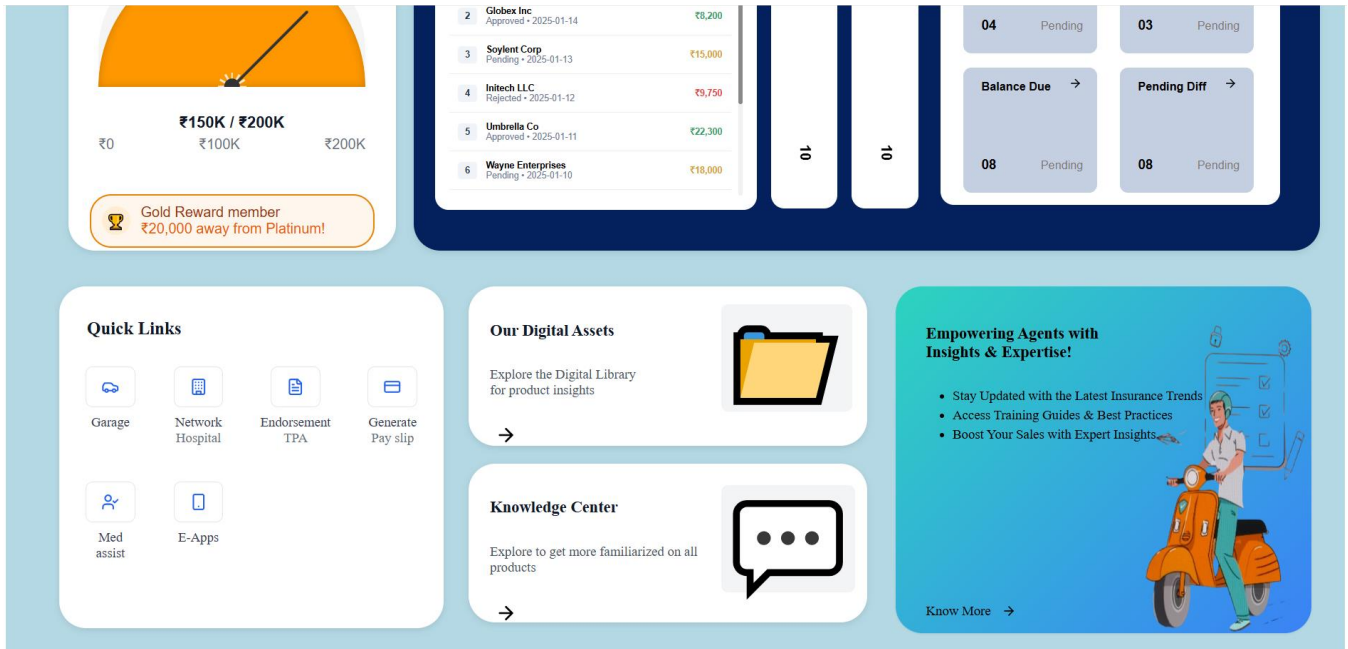


Fig 3

Sales / Proposals

All Proposals [Create quote](#)

Search All Motor Health Commercial Status Filter by date

	Policy Number	Status	Customer Name	Product Code	Proposer Code	Premium	Inward Code	Inward Date	Action
<input checked="" type="checkbox"/>	PC05708720 • Initiated	Inward (Received)	Thangavelu	MotorCyclePackage	PC05708720	₹5000	INW4A25993	03/01/2025	Download
<input checked="" type="checkbox"/>	PC05708721 • Action required	Counter Download Pending	Rajesh Kumar	HealthPlus	PC05708721	₹3500	INW4A25994	03/15/2025	Download
<input type="checkbox"/>	PC05708722 • Action required	Pending KYC	Priya Sharma	CommercialVehicle	PC05708722	₹7500	INW4A25995	04/05/2025	Download
<input type="checkbox"/>	PC05708723 • Initiated	Referral Approved	Amit Patel	MotorCyclePackage	PC05708723	₹4500	INW4A25996	05/10/2025	Download
<input type="checkbox"/>	PC05708724 • Initiated	In Process	Neha Gupta	HealthPlus	PC05708724	₹3800	INW4A25997	06/22/2025	Download

Bulk Download No of proposals selected: 2

Save as XLSX

Show Records 5 ...

Fig 4

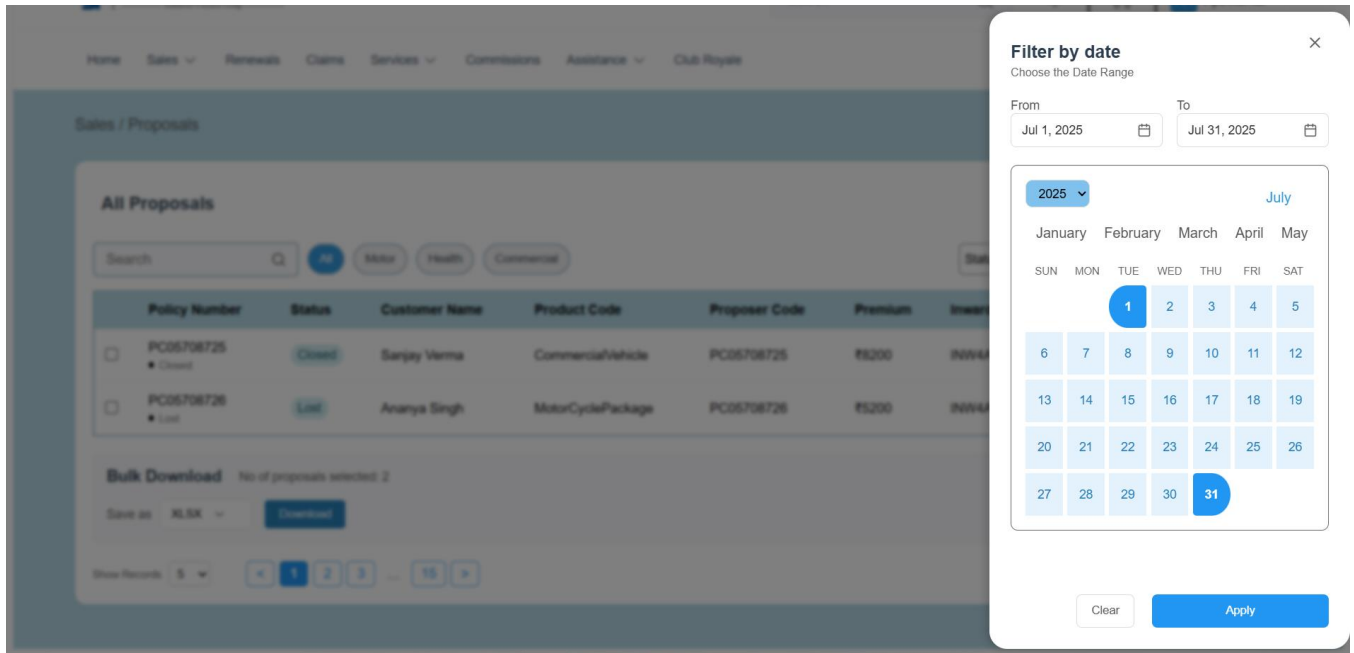


Fig 5

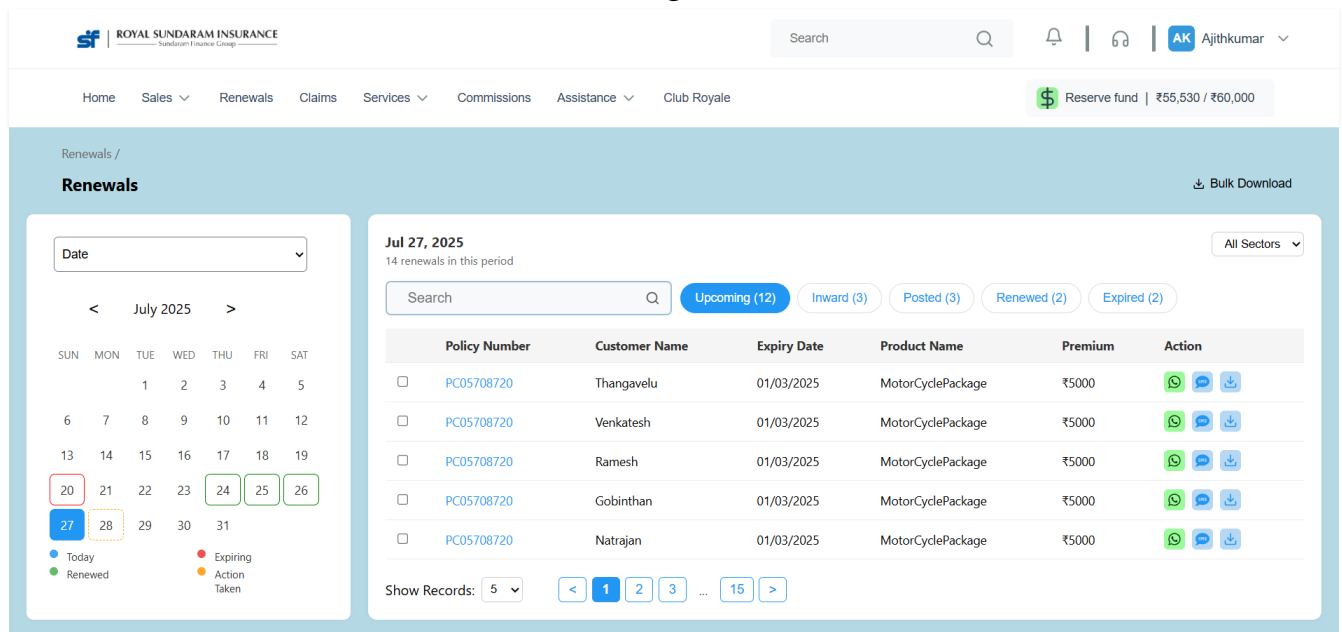


Fig 6

8. CONCLUSION

My internship experience involving the development of the **iLounge Insurance Agent Portal** for **Royal Sundaram Insurance** has been both enriching and transformative. It offered me an excellent opportunity to apply my skills in web development and interface design to a real-world insurance domain project. Working in a structured environment, I gained hands-on experience with **React.js**, **Tailwind CSS**, and API integrations, while also learning to adapt to evolving user needs and industry expectations.

Under the guidance of experienced mentors, I worked extensively on building key modules such as **Proposals**, **Renewals**, **Quick Quotes**, and **Claims Management**. The platform also integrated real-time features like **OTP-based login**, **WhatsApp/SMS reminders**, **bulk downloads**, and **calendar filters**, all of which enhanced my understanding of creating responsive and user-centric applications. This project allowed me to dive deeper into API communication, state management, session handling, and component-driven architecture using React.

The iLounge platform provided a holistic perspective on what it takes to develop a full-fledged, scalable web application that aligns with business objectives while maintaining a strong focus on usability and performance. I also understood the importance of security, user authentication, and maintaining data integrity in professional-grade applications.

Overall, this project was a significant milestone in my academic and professional journey. It improved my technical skills, increased my confidence in working on enterprise-level applications, and strengthened my readiness to take on advanced roles in software development and full-stack engineering in the future.

9.CERTIFICATE



July 4th, 2025

WHOMSOEVER IT MAY CONCERN

We hereby certify that to Ms. B Shruthi (Reg No: 142222104148) 3rd Yr B.E.(Computer Science and Engineering) student of your Institute has completed Internship in our Organization for a period starting from 09th June 2025 to 30th June 2025

Performance during training: Good.

For Sundaram Finance Limited

Kartik Swaminathan

Head – Learning & Development

Sundaram Finance Limited

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SRM VALLIAMMAI ENGINEERING COLLEGE

(An Autonomous Institution)

ESTD. 1999 - Accredited by NBA - Approved by
AICTE

'A' Grade Accreditation by NAAC

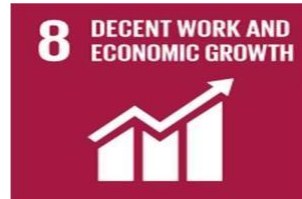
ISO 9001:2015 Certified - Affiliated to Anna University Chennai

CENTRE OF EXCELLENCE IN SUSTAINABILITY

SDG CERTIFICATE

This is to certify that the Internship work titled **“ILOUNGE– A Complete Digital Platform for Insurance Agents to manage Proposals, Claims, and Renewals”** has been successfully completed **Shruthi B (142222104148)**, of B.E. –Computer Science Engineering, during the academic year 2025- 2026. This project aligns with the United Nations Sustainable Development Goals and mapped to the following Sustainable Development Goal(s) (SDGs):

SDG Number	Name	Brief Justification
SDG 4	Quality Education	Provides equal access to learning resources and academic opportunities.
SDG 8	Decent work and economic growth	Connects students to internships and job opportunities to boost career growth



PROJECT SUPERVISOR

CES COORDINATOR

HOD/CSE



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