

Objective

Develop a full safety compliance system for construction sites, with mobile and web apps, to effectively ensure, monitor, and report safety measures in commercial and residential projects.

CASE STUDY

Scope

- Develop a mobile application for safety engineers, managers, and auditors to capture and record safety norms at construction sites.
- Create a web application for managers to generate MIS reports and for admins to configure system settings, manage user roles, and update safety parameters. .

Solution

- ✓ Developed cross-platform mobile apps (Android & iOS) for on-site safety compliance data capture.
- ✓ Gathered user requirements for engineers, managers, and visitors, enhancing functionality.
- ✓ Regularly updated technology and software to align with changing business needs.
- ✓ Created a web module for project management, checklist creation, work permits, training, labor details, and contractor management.
- ✓ Integrated a comprehensive MIS reporting system for senior management to oversee multiple projects and access detailed insights.

Value Added

- Digitized safety processes, boosting efficiency and accuracy in compliance recording.
- Implemented a robust system for training, visitor tracking, and incident recording.
- Streamlined site management tasks with intuitive interfaces for checklists and work permits.
- Facilitated detailed MIS reports for informed decision-making on safety compliance.
- Enhanced accountability and compliance visibility with documented evidence of safety measures.

Frameworks & Tools



Objective

Develop a post-sales CRM platform for a Top Real Estate Brand to enhance collaboration between the internal team, property owners, and tenants, and to improve post-sales customer engagement and support.



CASE STUDY

Scope

- Research and map out customer touchpoints post-property sales to design a CRM application tailored to these interactions.
- Conduct end-to-end product development from initial understanding to full deployment of the CRM system.

Solution

- ✓ Collaborated closely with the client's real estate team to thoroughly understand post-sales activities and map the customer journey across three stages: Booking to Possession, Possession, and Warranty Period.
- ✓ Developed comprehensive flows and wireframes, followed by UI/UX design, system architecture development, and system implementation.
- ✓ Migrated from on-premises infrastructure to cloud computing with AWS to enhance scalability and performance.
- ✓ Optimized development by differentiating functionalities between mobile (Flutter) and web platforms (AngularJS, React), which streamlined operations and reduced development time and costs.

Value Added

- Implemented detailed post-sales process stages for targeted customer support and engagement at each phase of the customer lifecycle.
- Transitioned from on-premises to cloud setup, enhancing system scalability and reliability.
- Strategically allocated features for optimal mobile and web app performance, ultimately enhancing user experience.
- Saved development time and costs by avoiding duplication of work and focusing on platform-specific functionalities.

Frameworks & Tools



Objective

Create an exam management system for candidate registration, profiles, applications, and updates. while also allowing admin control over exam creation, eligibility criteria, and document verification.

CASE STUDY

Scope

- Enable candidates to create detailed profiles, including educational and professional backgrounds, and apply for eligible exams.
- Automate the eligibility verification process for applications using a JSON-based eligibility engine.
- Incorporate a robust payment gateway for exam fee transactions.
- Allow admins to manage exams, and eligibility criteria, upload documents, and handle user and role management.

Solution

- ✓ Developed a web application utilizing Spring Boot for backend operations, React for the frontend interface, MySQL for database management, and Minio for file storage.
- ✓ Implemented a new eligibility engine that allows admins to define exam eligibility criteria in a JSON format, automating the eligibility checks and providing instant feedback on non-eligibility.
- ✓ Integrated a payment gateway that supports multiple payment options and allows selection at runtime, enhancing the application's financial transaction capabilities.
- ✓ Used Minio, an S3-compatible storage service, to manage a large volume of files efficiently, essential for handling numerous candidate documents and admin uploads.

Value Added

- Streamlined eligibility verification with a JSON-based engine, improving accuracy and speed.
- Enhanced candidate satisfaction with an extensive feature set and top-notch performance.
- Enabled seamless financial transactions with a flexible payment gateway integration.
- Boosted operational efficiency with Docker and Jenkins for deployment and continuous integration.

Frameworks & Tools



Objective

VAST collaborated with a US startup to create a Low-cost SaaS platform that simplifies and accelerates custom application development. Their full involvement ensured a solution that surpassed client expectations.

CASE STUDY

Scope

- Streamline workflows with intuitive tools for rapid app development, deployment, and automation.
- Foster collaboration with a centralized platform for knowledge sharing and communication.
- Drive efficiency by automating manual processes and optimizing resource usage.
- Empower decision-makers with real-time insights and data-driven analytics.
- Promote innovation with a flexible platform for adapting to changing business needs.
- Improve user experience through an intuitive interface for effective platform utilization.

Solution

- ✓ VAST developed 'the Platform', a cutting-edge Low-Code SaaS platform, simplifying traditional knowledge management.
- ✓ Platform enables rapid app development and tailored solutions without extensive coding.
- ✓ Facilitates seamless integration and coordination across business functions, fostering collaboration and efficiency.
- ✓ Utilizes cloud-native architecture, microservices, and containerization for scalability, reliability, and security.
- ✓ Platform's intuitive UI and workflow automation revolutionize knowledge management, enhancing information sharing and decision-making.

Value Added

- Provided strategic guidance on roadmap and architecture using industry insights.
- Engineered a tailored Low-Code SaaS platform with innovative technology.
- Ensured alignment through regular communication and agile practices.
- Adopted cloud-native, microservices, and containerization for enhanced scalability and security.
- Addressed challenges with innovative solutions for a robust outcome.
- Offered ongoing maintenance and enhancements for continuous innovation.

Frameworks & Tools



Objective

Empower local merchants in the digital era and boost the local economy. Create IT Entrepreneurs in small towns in India through a unique franchisee model

CASE STUDY

Scope

- Develop an end-to-end platform that covers all stages of the product lifecycle, from concept to UI/UX design, implementation, support, and maintenance
- Provide three distinct interfaces: a web interface, a business app, and a shopping app.

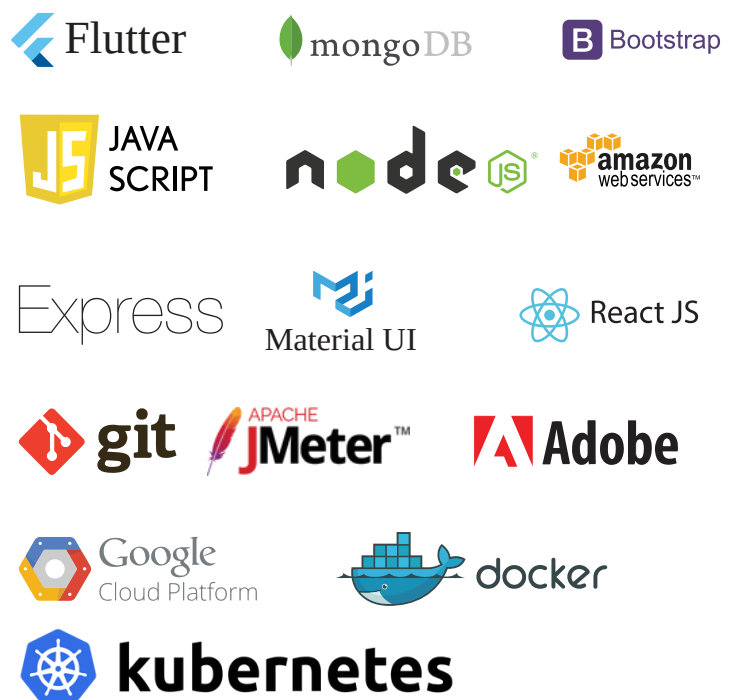
Solution

- ✓ The web interface was developed to handle setup, configurations, and support for merchants and shoppers, featuring inventory management, POS, and delivery partner integrations.
- ✓ The Xirify for Business app allows merchants to manage their stores, handle orders, and oversee campaigns and loyalty programs.
- ✓ The Xirify Shopping app helps shoppers discover merchants and place orders, boosting local business visibility and sales.
- ✓ A modular and customizable platform was implemented, tailored to merchant categories and offerings, including online payment options and robust security.

Value Added

- Advanced technical skills shaped Xirify, keeping it competitive with current trends.
- Flexibility in scope management enabled rapid responses and continuous improvement
- Innovative solutions enhanced Xirify's functionality and market success.
- The architecture of Xirify is scalable, supporting effective adaptation and growth.

Frameworks & Tools



Objective

Implement a system to retain highly talented employees through customized development programs to create a future-ready workforce and increase the Human Capital Index.

CASE STUDY

Scope

- Develop a central platform to track employee skills, experiences, and certifications
- Provide tools to identify and select high-potential employees for development programs
- Enable employees to select development paths from career roadmaps aligned with company goals
- Allow mentors to customize annual development programs based on chosen learning paths for teams or individuals.

Solution

- ✓ Develop a centralized platform to manage and track employee skills, experiences, projects, and certifications.
- ✓ Provide tools for talent identification to select high-potential employees for development programs.
- ✓ Allow employees to choose their development paths based on career roadmaps aligned with company objectives in technical and soft skills.
- ✓ Enable mentors to customize a 1-year development program for individuals or teams based on their selected learning paths.

Value Added

- The platform boosts talent retention through tailored development paths that increase employee satisfaction
- Leaders can effectively monitor and analyze skills to better plan training initiatives
- The system aligns employee development with organizational goals, enhancing the Human Capital Index.
- The platform offers extensive customization in development programs to support individual growth.

Frameworks & Tools



Objective

Digitalization for practicing chartered accountants to automate accounting processes, manage and monitor team efficiency, and improve client experience through a white-labeled mobile app.

CASE STUDY

Scope

- Eliminate communication overheads between clients and team members
- Support business growth by transitioning to a digital, app-based operation
- Develop a highly expansive and scalable solution that accommodates even remote clients swiftly.

Solution

- ✓ Developed a comprehensive digital platform for chartered accountants to automate and manage accounting processes.
- ✓ Created a white-labeled mobile app to improve client engagement and service delivery.
- ✓ Provided a scalable architecture to support business expansion and remote client management.

Value Added

- Worked with clients to understand the domain and provided specific insights to improve the team's tech skills
- Guided team toward becoming self-sufficient.

Frameworks & Tools



Express

Objective

Enhance robotic software for robotic arm control and EV charging operations with web server capabilities, enabling communication via a REST interface with other system applications.

CASE STUDY

Scope

- Understand the communication architecture
- Define JSON structure for data exchange
- Publishing the messages to other threads inside the application

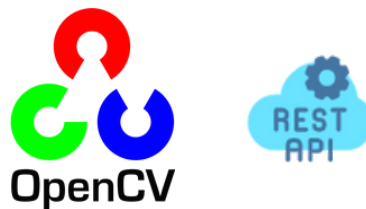
Solution

- ✓ Implemented a web server within a thread in the robotic software to handle internal and external communication.
- ✓ Designed and implemented REST endpoints to receive commands from client applications and provide responses.
- ✓ Enabled modifications of robot operation parameters and provided status updates through these endpoints.
- ✓ Established a JSON-based data exchange format and utilized Linux message queues to pass commands to other threads for execution.

Value Added

- **Remote Operation Capability:** Enabled real-time remote execution of robot protocols via REST APIs, facilitating development and testing from remote locations.
- **Technology Agnosticism and Scalability:** Delivered a language-agnostic and scalable solution, ensuring compatibility and ease of integration within diverse systems.

Frameworks & Tools



Objective

To build a platform that facilitates an easy, fraud-free & worthy engagement between Buyers & Sellers of 'Used Cars' in the Australian Car Resale market

CASE STUDY

Scope

- Develop a marketplace application for buyers and sellers of used cars
- Manage catalog and profiles for sellers and buyers
- Integrate with third-party databases such as PPSR and GLASS
- Implement radius-based searches using geographic coordinates.

Solution

- ✓ Designed and deployed the user experience and architecture on AWS.
- ✓ Integrated the platform with Cloudinary for image management and Stripe for payment processing.
- ✓ Incorporated VIN verification and real-time messaging systems between buyers and sellers.
- ✓ Ensured seamless integration with PPSR and GLASS databases for vehicle history and valuation.

Value Added

- **Enhanced User Journey:** Provided thoughts for tracking the buyer and seller journey, enhancing user experience and engagement.
- **Business Model Innovation:** Suggested approaches for designing plans and feature-based pricing to enhance monetization strategies
- **Mobile Accessibility:** Enabled the design of a mobile app platform, expanding the service's accessibility and usability in a B2C environment.

Frameworks & Tools



Objective

Mobile-based eCommerce application to purchase goods and groceries online

CASE STUDY

Scope

- Implement a mobile app that consumes APIs developed by the client's team
- Design mobile app flow, catalog management, and push notification integration using Firebase
- Enhance user experience with local storage for improved application performance.
- Implement a checkout process with pre-checkout authentication.

Solution

- ✓ Designed and developed the mobile app leveraging modern frameworks and technologies.
- ✓ Tested and integrated APIs provided by the client's backend team for functionality including catalog management.
- ✓ Utilized file upload for catalog management within the app.

Value Added

- **Mobile Optimization:** Focused on creating a user-friendly mobile interface and experience, ensuring smooth navigation and interaction.
- **Enhanced Performance:** Implemented local storage solutions to speed up the application performance, reducing load times and improving user satisfaction.
- **Secure Transactions:** Developed a robust authentication process for checkout to ensure transaction security and user confidence.

Frameworks & Tools



Objective

To build an online platform that connects world-class US doctors with patients around the world, using technology in a secure and convenient way

CASE STUDY

Scope

- Implement B2C requirements for managing doctor and patient interactions
- Conduct end-to-end development and implementation of the solution.
- Manage project planning and Agile execution
- Ensure HIPAA compliance for patient reports and health data management.

Solution

- ✓ Developed a comprehensive B2C solution for patient and doctor onboarding, profile management, appointment management, and communication management.
- ✓ Designed, developed, and deployed the solution on AWS.
- ✓ Implemented data encryption and enhanced API security to protect sensitive health information.
- ✓ Integrated third-party services, including Stripe for payment processing and WebRTC for secure video calling.

Value Added

- New features like referrals and real-time chat were introduced to enhance patient and doctor interaction.
- Real-time note-taking capabilities during consultations were added to improve the platform's utility and efficiency
- An optimized solution for managing appointment calendars was developed to simplify scheduling and rescheduling.

Frameworks & Tools



Objective

To build a PBM (Pharmacy Benefit Manager) Claim Adjudication System that would adjudicate the prescription claims submitted by pharmacies through pharmacy exchanges.

CASE STUDY

Scope

- Develop a rule engine to process claims and determine outcomes—either accepted or rejected, with reasons provided for rejections
- Design a messaging queue to manage the flow of claim messages in and out of the system
- Build a user interface for claims management.

Solution

- ✓ Implemented end-to-end solutions including automated deployment on AWS.
- ✓ Developed a cache implementation for performance management.
- ✓ Established CI/CD for DevOps automation. Created a messaging queue to manage the flow of claims messages.
- ✓ Designed a performance-intensive claims processing engine.
- ✓ Provided comparative analysis of frameworks and tools for the rules engine to make informed technology decisions.
- ✓ Developed extensible APIs and designed the solution with a modular approach.

Value Added

- A claims processing engine was engineered to efficiently handle high volumes of data
- A comparative analysis was provided to select the optimal framework and tools for the rules engine.
- System architecture flexibility was enabled through API exposure, facilitating future integrations and expansions
- Scalability and maintainability were ensured with a modular design approach.

Frameworks & Tools

 Drools  RabbitMQ

 redis  

 mongoDB

 UNIX®
An Open Group Standard

 Java

 MariaDB

 Microsoft Azure

Objective

To automate the HR hiring process from scanning resumes to carrying pre-employment cheques

CASE STUDY

Scope

- Created campaigns/drives for each position, configuring questions, grading, and tracking answers
- Developed reports and analytics for the recruitment company to monitor and optimize recruitment processes
- Enabled video screening scheduling to enhance the candidate evaluation process
- Created an inventory of strong candidates with details on their availability.

Solution

- ✓ Created campaigns/drives for each position, configuring questions, grading, and tracking answers.
- ✓ Developed reports and analytics for the recruitment company to monitor and optimize recruitment processes.
- ✓ Enabled video screening scheduling to enhance the candidate evaluation process.
- ✓ Created an inventory of strong candidates with details on their availability.

Value Added

- Provided tools that increased recruiter productivity by 90%, streamlining their workflows.
- .Integrated NLP to screen thousands of resumes efficiently.
- Implemented automated communication systems to improve engagement with candidates
- Enabled data-driven decision-making that improved hiring output.

Frameworks & Tools



Objective

Community Application for the customers of real estate developer

CASE STUDY

Scope

- Brainstorm and evolve the concept of a community application.
- Design and develop a mobile application (B2C) and a web application for marketing administration.
- Provide content management services.
- Implement automated email systems for marketing and customer relations.

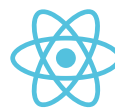
Solution

- ✓ Developed a React Native-based mobile application to enable community members to stay connected and share thoughts, thereby enhancing their happiness and engagement
- ✓ Equipped the PSCL marketing team with tools to send marketing brochures and mobile-based notifications & content to PSCL customers efficiently.

Value Added

- Implemented FCM for real-time push notifications, significantly increasing user return rate to the app with purposeful interactions.
- Provided robust tools for content management and marketing communications, streamlining the process and improving reach and impact.

Frameworks & Tools



mongoDB

React Native

node JS



linode



Firebase

Objective

Charity Choice is a social venture platform that connects volunteers with various individuals and corporations together

CASE STUDY

Scope

- Utilize a crowdsourcing model to connect members, including clients and volunteers.
- Allow volunteers to register a catalog of services, their availability, and the donation money they accept.
- Enable registered organizations to post work requests and make payments online.

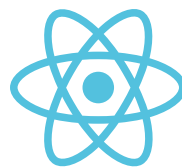
Solution

- ✓ Implemented a system for matchmaking and appointment bookings between charity organizations and volunteers.
- ✓ Integrated online payment functionalities through payment gateways to facilitate financial transactions on the platform.

Value Added

- Automated state and city entries by zip codes, enhancing input efficiency and location accuracy.
- Refined volunteer search to quickly match organizations with local volunteers by zip code.

Frameworks & Tools



Objective

Connecting people in the community with common interest

CASE STUDY

Scope

- The project entailed creating a comprehensive B2C platform including a mobile application, compatible with both iOS and Android.
- The app was designed to allow registered users to: Search for nearby users with common interests.
- Chat and share social media profiles. Utilize AI-based real-time reporting for enhanced user experiences.

Solution

- ✓ VAST developed a user-centric mobile application incorporating advanced geolocation and geofencing technologies to facilitate real-time connections among local users.
- ✓ Built with Node JS and Feathers JS to handle real-time data storage and operations efficiently.
- ✓ A cross-platform frontend developed using React JS and Flutter, ensuring a seamless and engaging user interface.
- ✓ Integration of Google Maps and Firebase for real-time location tracking and data management.

Value Added

- We guided the client with additional features like Invites, which resulted in more user acquisition "The Favourite" feature we suggested resulted in improved engagement.
- We suggested additional KPIs to track user behavior resulting in product lead growth.

Frameworks & Tools



Objective

A top trade compliance expert in the US, aimed to revolutionize trade workflows by simplifying management and compliance. They envisioned a potent SaaS marketplace to help businesses effortlessly navigate customs regulations.

CASE STUDY

Scope

- Develop a SaaS multi-tenant platform utilizing a microservices-based architecture.
- Integrate the platform with multiple trade compliance solutions/services, allowing users to select and pay for services based on their specific needs and consumption.

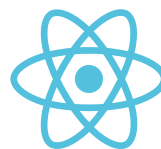
Solution

- ✓ VAST developed a robust SaaS marketplace equipped with a multi-tenant system and microservices architecture.
- ✓ Integrated seamlessly with multiple trade compliance services, offering a comprehensive suite of tailored offerings.
- ✓ Implemented technologies such as Java, SpringBoot, React, and Docker to ensure scalability, flexibility, and optimal performance.
- ✓ Introduced a pay-as-you-go model that empowered users to select and pay for services based on their consumption.

Value Added

- Implemented a SaaS marketplace, achieving major cost savings and efficiencies for our client and their customers.
- Boosted client revenue by expanding service offerings and customer reach.
- Enhanced compliance management, increasing user satisfaction, and optimizing processes through client feedback

Frameworks & Tools



Objective

Develop and deploy a web-based application to automate the lead-cutting process at the client's Cable Assembly manufacturing plant, aiming to improve efficiency, accuracy, and productivity in manufacturing operations.

CASE STUDY

Scope

- Address inefficiencies in the manual lead-cutting process which involved multiple steps and periodic measurements.
- Automate measurements, validation, and documentation to reduce errors and enhance productivity.

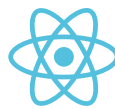
Solution

- ✓ Developed a web-based application tailored to the specific needs of the client's manufacturing requirements.
- ✓ Implemented advanced features such as role-based access control, audit trails, and system integration capabilities to enhance usability and scalability.
- ✓ Digitized the lead cutting process, enabling automated measurements, real-time validation, and streamlined documentation.

Value Added

- Provided full lifecycle support from inception to post-MVP, including roadmap planning and system maintenance
- Developed a custom solution targeting the client's specific manufacturing needs.
- Used advanced web frameworks and databases to efficiently automate the lead-cutting process.
- Collaborated with the client's team to resolve implementation challenges, ensuring project success.
- Delivered cost savings, increased efficiency, improved product quality, and ensured compliance with standards.

Frameworks & Tools



Objective

VAST collaborated with an Indian real estate leader, crafting a solution for developers. Goals included workflow streamlining, resident management enhancement, and a service provider marketplace creation. Expertise in real estate and tech-enabled VAST to aid clients in launching an industry-revolutionizing platform in India.

CASE STUDY

Scope

- Address challenges for property developers, residents, and service providers in real estate.
- Streamline workflows and enhance operational efficiency.
- Improve customer satisfaction across the real estate ecosystem.
- Foster community engagement within real estate operations.

Solution

- ✓ Streamlined property developers' workflows by enhancing sales, marketing, and support activities.
- ✓ Empowered residents with efficient property management tools, fostering community engagement.
- ✓ Created a service marketplace for providers to publish services, improving convenience for residents.
- ✓ Leveraged technologies like ReactNative, Nest.js, and Microservices for scalability and performance.

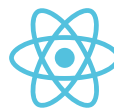
Value Added

- **Domain expertise:** VAST's deep experience in real estate brought valuable insights and guidance to clients throughout the project.
- **Architecture consulting:** VAST helped define the product architecture and technology stack, ensuring scalability and future-proofing.
- **Deployment strategy:** VAST assisted in defining a seamless deployment strategy, enabling scalability and reliability.
- **Software development best practices:** VAST implemented containerization and code quality assurance, ensuring a robust and maintainable solution.

Frameworks & Tools

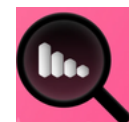
 React Native

 NEXT.js



 node.js

 docker



 kubernetes