



STHENOS TECHNOLOGIES

POWERED BY NEOSOFT TECH

```
import java.io.IOException;
```

```
public class TomcatEmbedded {
```

```
    private static final String APP77 = "77";
```

```
    public static void main(String... args)
```

```
        throws Exception {
```

```
        File baseFolder = new File(System.getProperty("user.dir"));
```

```
        File appsFolder = new File(baseFolder, "apps");
```

```
        Tomcat tomcat = new Tomcat();
```

```
        tomcat.setBaseDir(baseFolder.getAbsolutePath());
```

```
        tomcat.setPort(8080);
```

```
        tomcat.getHost().setAppBase(appsFolder.getAbsolutePath());
```

```
        // Call the connector to create the default connector.
```

```
        Connector connector = tomcat.getConnector();
```

```
        connector.setPort(8080);
```

```
        connector.setWrapper(wrapper);
```

```
        wrapper.setLoadOnStartup(1);
```

```
        wrapper.addMapping("/");
```

```
        tomcat.start();
```

```
        tomcat.getServer().await();
```

```
}
```

Java

Consulting & Development



About Us

Overview



4000+
Employees



10
Global Offices



9
Development
Centers



1,00,000+ Sq.ft.
Office Space

Clientele



1500+
Clients



50+
Countries



85%
Clients Retention



22+
Industry Verticals

Achievements



2000+
Products Engineered



1500+
Applications
Developed



12+
Awards



20+
Million Development
Hours

Partners



Microsoft

 Google Cloud

 Magento

Great
Place
To
Work.
Certified
INDIA

25+
YEARS OF
EXCELLENCE



CMMI DEV / 5

Certified To Deliver Quality



This is to affirm that
Sthenos Technologies Inc
Organizational Unit: Software Development Unit
has been appraised at
Maturity Level 5
of the Capability Maturity Model Integration for Development,
Version 3.0



CMMIDEV / 5
CMMI © V 3.0 / Exp. 2027-08-17 / Appraisal #72520

ISO

9001:2015
Quality Management

ISO

27001:2013
Information Security

ISO

20000-1:2011
IT Management

ISO

22301:2012
Business Continuity
Management

What We Do

Team Augmentation

A team of 4000+ Battle Tested engineers across 100+ Different Stacks.

We are your Digital Factory, dedicated teams to supercharge your development throughput.

0 Operational Overheads.

Agile & On Demand.

Fixed Scope

We offer meticulously crafted project specifications and timelines for cutting-edge development, seamless integrations and feature-rich solutions.

The Sthenos Technologies approach ensures your projects are delivered with precision and excellence.

Managed Services

Our IMS services helps enterprises to run Business as usual.

With strong SLA driven services, 24x7 Support, Governance and Technology expertise, we help to optimize processes and costs.

Why JAVA?



Robust, Interpreted &
Multi-Threaded



High Security &
Performance



Powerful, Object-Oriented
Framework



Platform
Independent



Excellent Portability,
Distributed & Dynamic



Services



Cloud Native Application
Development



Solution Architecture
Assessment & Definition



Full Stack Development



Spring Boot Microservices
Architecture-Based
Solution Development



Application Re-Engineering
/Migration



Enterprise Java Application
Development



Middleware Development



Upgrade Legacy System
(Built-in JSP/Servlets to
Modern Spring Boot)



SaaS Application
Development



B2B, B2C & C2C Portals



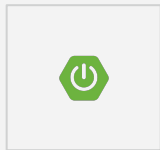
Application Porting (From
Different Technology Stack
to Java Stack)



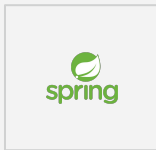
Application Integration

Frameworks

Core Frameworks



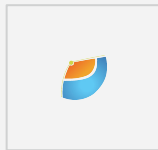
Spring Boot



Spring



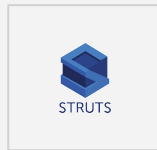
Hibernate



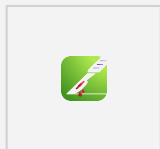
JSF



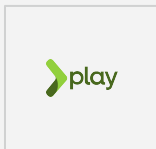
GWT



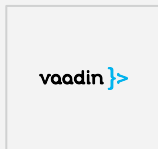
Struts



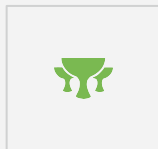
Blade



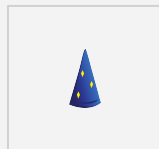
Play



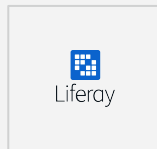
Vaadin



Grails

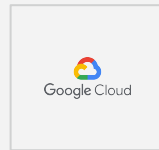


Dropwizard



Liferay

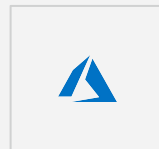
Cloud Platform



GCP

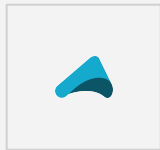


AWS

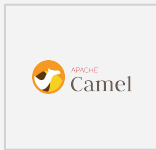


Azure

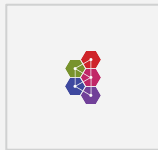
Java Middleware Tools



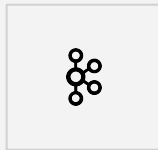
Akka



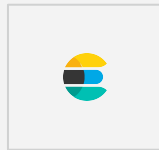
Apache Camel



ActiveMQ



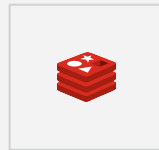
Apache Kafka



Elastic Search



GraphQL



Redis



Camunda

Frameworks

Database



MySQL



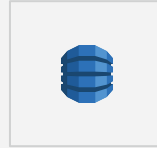
MS SQL



MongoDB



Oracle



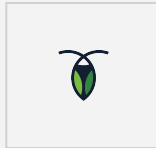
DynamoDB



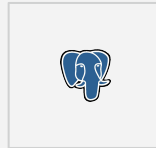
Neo4j



GraphDB



CockroachDB

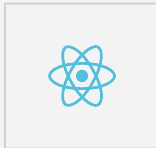


PostgreSQL

Fronted



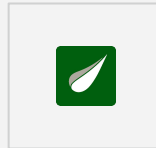
Angular



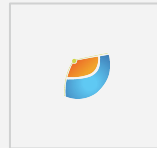
React.js



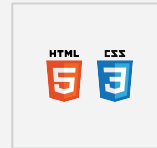
Vue.js



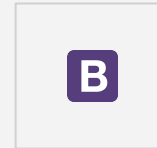
Thymeleaf



JSP



HTML/CSS



Bootstrap

Methodology



Assessment of Requirements

Our experts assess project requirements, objectives, and expectations to establish a development roadmap.



Agreement on Service Models

We recommend the best-suited engagement model as per the project demand along with the best-fit resources.



Design and Development

Design & Development begin to deliver a high-quality, incremental, and working software/application that meets your acceptance criteria.



Testing and QA

Extensive testing, client, feedback, and documentation are integrated into our process to let us deliver the best quality product, every time.



Support

After go-live, “the end of the beginning starts” with constant monitoring & debugging to ensure proper operation.

Selected Clientele

Deloitte.



BCG



McKinsey
& Company



ebay



T Mobile



Forbes



Moët Hennessy



Zimmer

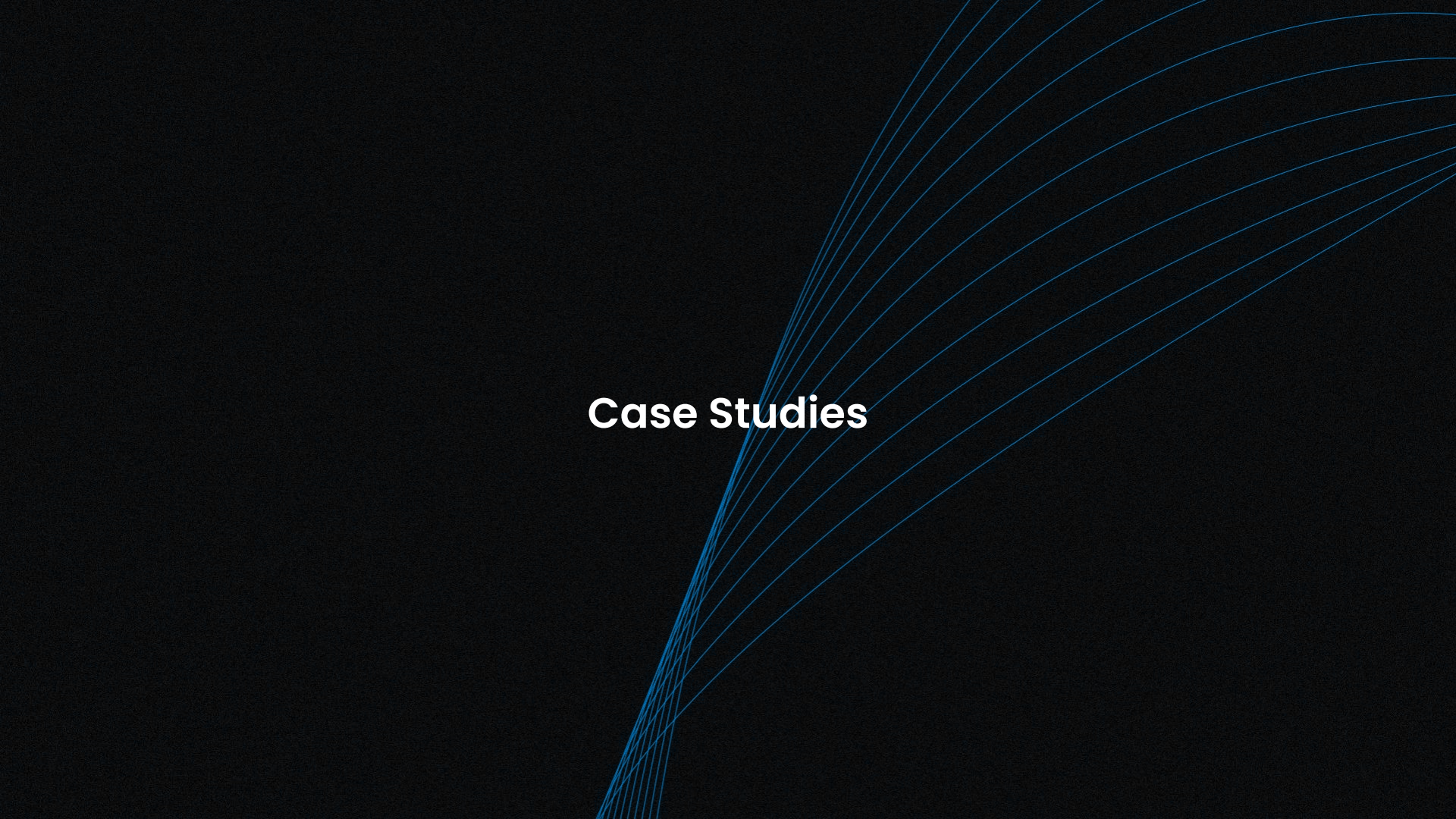


SONY



VOGUE





Case Studies

One Of The Largest Private Sector Banks In India

Designed a centralized application that combines all of the in-house applications

Customer Satisfaction

UI/UX

Automation

Outcomes

Enhanced Customer Experience

- By consolidating all the in-house applications, users benefit from a seamless and consistent user experience.

Streamlined Communication

- Features such as CRM, Notifications, Calendars, and Announcements improved communication and collaboration among users.

Improved Automation

- Implemented Barcode, IPS, BA, ABR/SAS VA functionalities leading to reduced manual effort and streamlined tasks.

Solutioning

Challenges

- Integrating multiple in-house applications into a single platform is complex.
- With a centralized platform, data security becomes a critical concern.
- Integration with existing systems and applications within the organization

Technical Spotlight

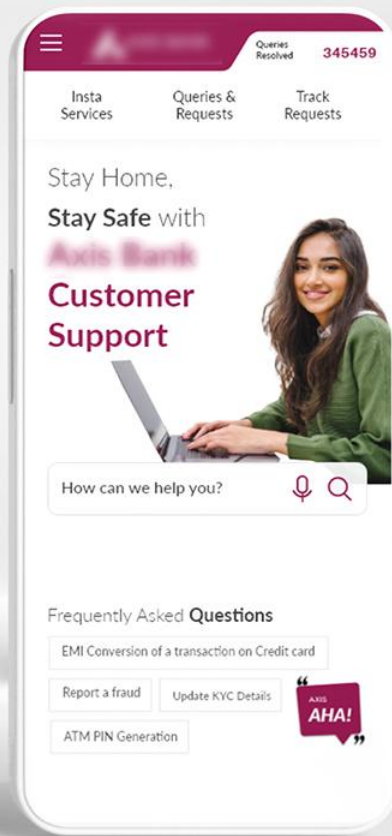
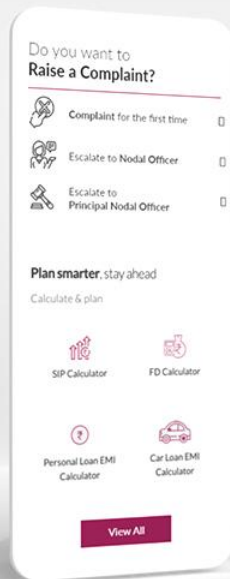
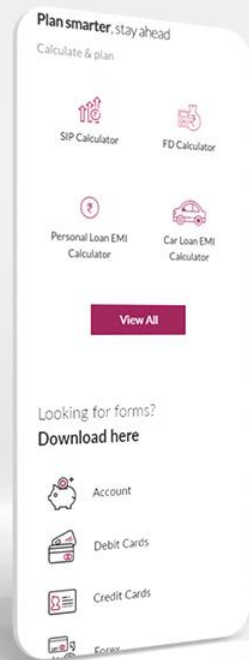
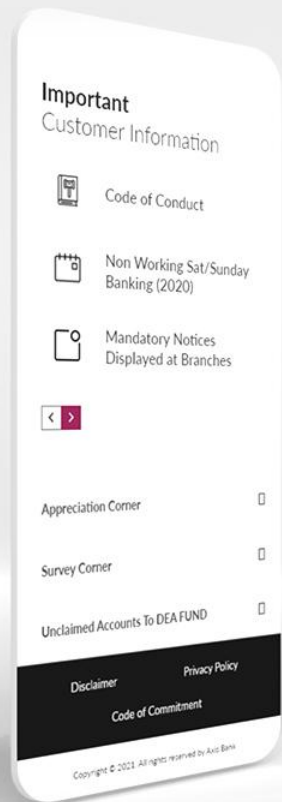
- Java enables Axis Engage Pro to be deployed across different platforms, providing flexibility and scalability.
- Integrated various modules, such as Product Guide, TXB (Transaction Banking), Calendars - tasks, Barcode to enhance productivity.
- Implemented SQLite to benefit from a reliable and efficient way to store and manage structured data.

Solution Highlights

- A well-defined integration strategy, and adherence to industry-standard integration protocols, helped overcome integration complexities.
- Implemented robust security measures such as secure authentication mechanisms to help protect sensitive data.
- Standardized protocols, APIs, and data mapping techniques facilitated efficient integration and data synchronization between Axis Engage Pro and other systems.

Tech Stack





A Leading Crypto Accounting Software

A modern and innovative platform to buy, store and sell gold.

Database Management

UI/UX

Payment Gateway

Outcomes

Improved Database Management

- Established the appropriate database schema, tables, and relationships necessary for the platform's functionality.

Multi-platform Accessibility

- Ensured a seamless and consistent user experience across mobile and web platforms.

Secure payment

- Paytm simplified the payment process, allowing users to make transactions swiftly and effortlessly.

Solutioning

Challenges

- Needed to establish a dedicated documentation process to capture various business scenarios.
- Required cross-platform availability and compatibility.
- Ensure distributed architecture and scalability.

Technical Spotlight

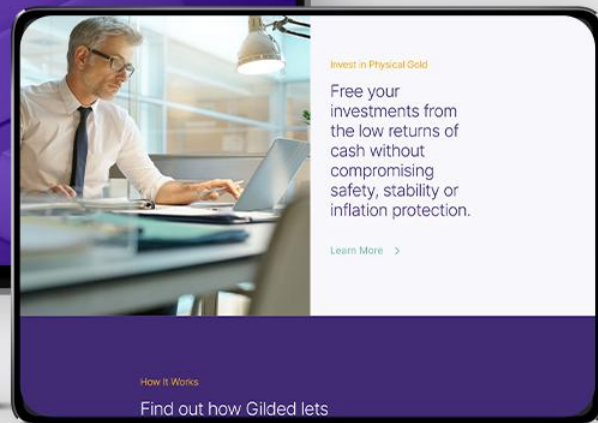
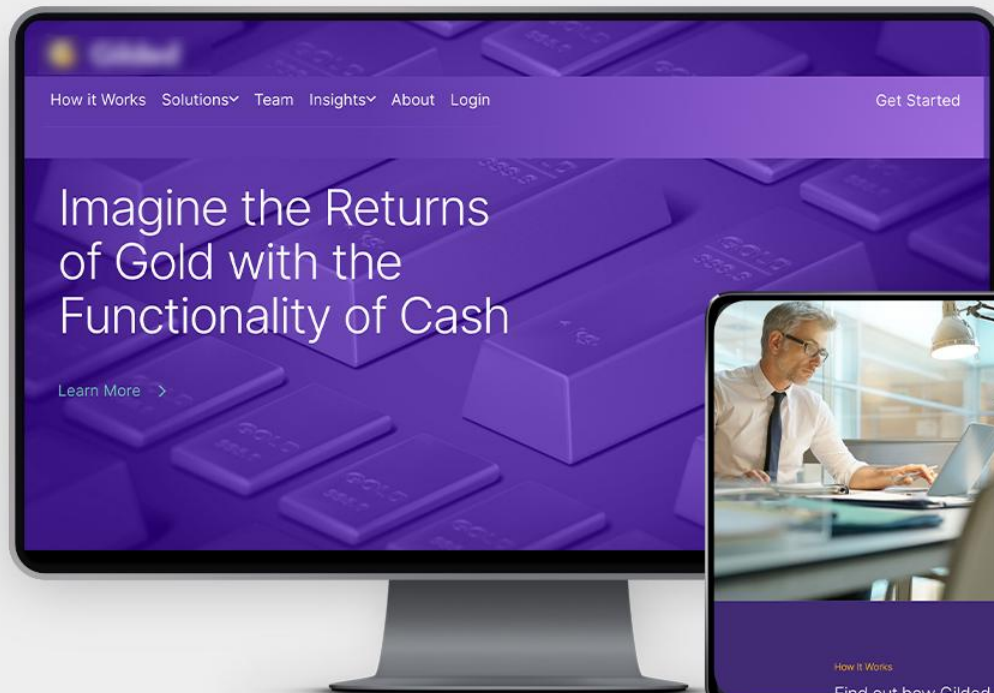
- Implemented Java to create a central repository for documentation and easily organize and maintain it.
- Paytm provided a user-friendly interface and intuitive payment navigation, to ensure a positive user experience.
- Leveraged Spring boot with its distributed architecture to ensure a robust web portal.

Solution Highlights

- Maintained a central repository for documentation and ensured it is easily accessible to the users.
- Conducted thorough testing and compatibility checks on both iOS and Android mobile platforms to ensure a seamless user experience.
- Designed the Gilded platform with a distributed architecture from the beginning to handle scalability requirements.

Tech Stack





An All-In-One Finance And Investment Company

An app that understands your investment needs and creates a personalized portfolio for your risk profile.

AI

Personalization

UI/UX

Portfolio Management

Outcomes

Portfolio Management

- Helped users register and create or import portfolios to easily manage their investment portfolios.

Engaging User Experience

- Provided a user-friendly interface that allowed investors to navigate seamlessly, access relevant information, execute trades, and interact with the platform's features.

Extensive Database

- Access to a wide range of stocks and mutual funds from various exchanges allowed investors to diversify their investment portfolios and explore different investment opportunities.

Solutioning

Challenges

- Implementing a real-time database was challenging due to the need for data synchronization and handling concurrent updates.
- Developing Genie to help users with recommendations.
- Implementing a Learn module with investment information and quizzes.

Technical Spotlight

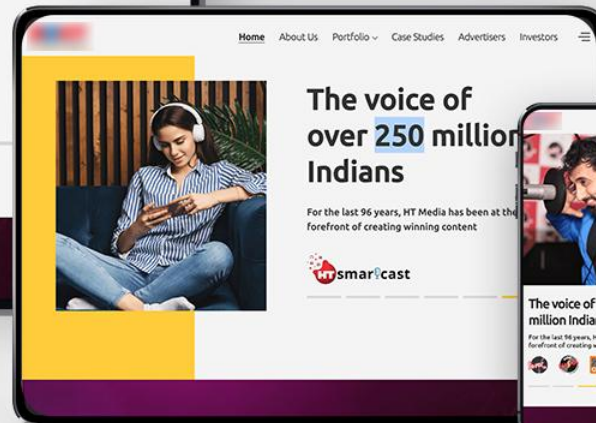
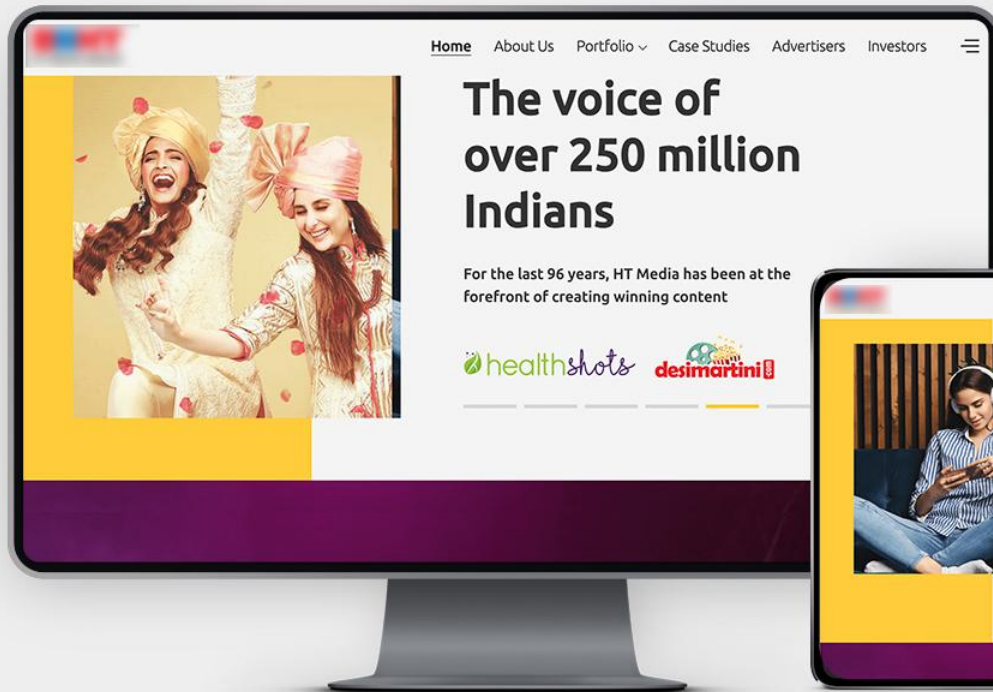
- Utilized Redis to store and manage user preferences and configurations for different investment modes, providing fast access and real-time updates.
- Node.js helped the Genie feature to retrieve and deliver personalized recommendations to users in real-time.
- Node.js handled dynamic content generation and served interactive learning modules efficiently.

Solution Highlights

- Utilised a reliable and scalable database technology that provided built-in support for real-time data updates and synchronization.
- Leveraged machine learning algorithms and techniques to personalize recommendations based on user preferences and behavior.
- Created a structured content management system (CMS) for managing educational materials and integrating quiz frameworks.

Tech Stack





A Digital, Mobile Only Banking Entity In Bahrain

A comprehensive, all-encompassing, mobile-based centralised banking solution

Module Development

UI/UX

Localisation

Outcomes

Scalable Microservice Architecture

- Implemented a microservice architecture with over 100+ services in different languages thus enhancing scalability, flexibility, and maintainability of the system.

Efficient Logging and Monitoring

- Integrating AWS CloudWatch to track logs and monitor system performance leading to effective debugging, troubleshooting, and analysis of the application.

Cross-Platform Mobile App

- Built the Ila Bank app on a Spring Boot application with a distributed architecture offering a mobile banking solution for both iOS and Android platforms.

Solutioning

Challenges

- Coordinating multiple microservices was challenging.
- Managing a large number of microservices and ensuring smooth integration and deployment was complex.
- To ensure the security of user data, adhere to regulatory requirements, and protect against cyber threats.

Technical Spotlight

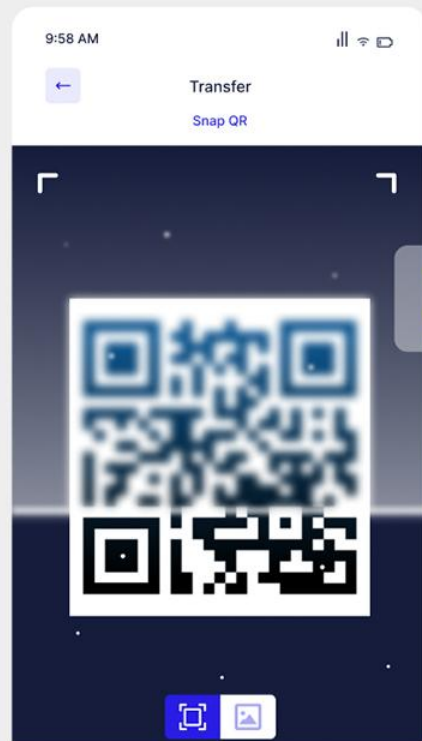
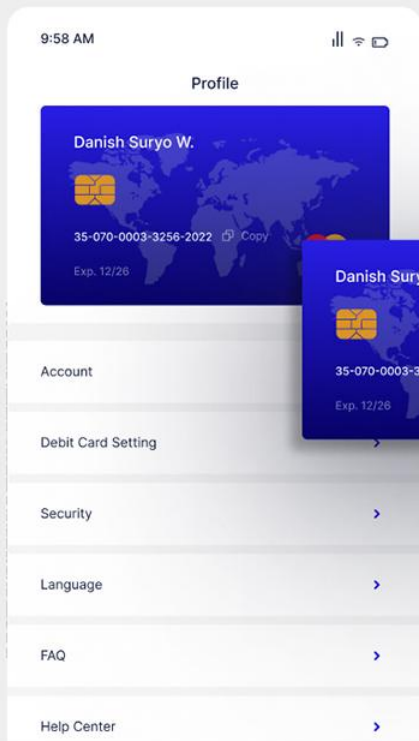
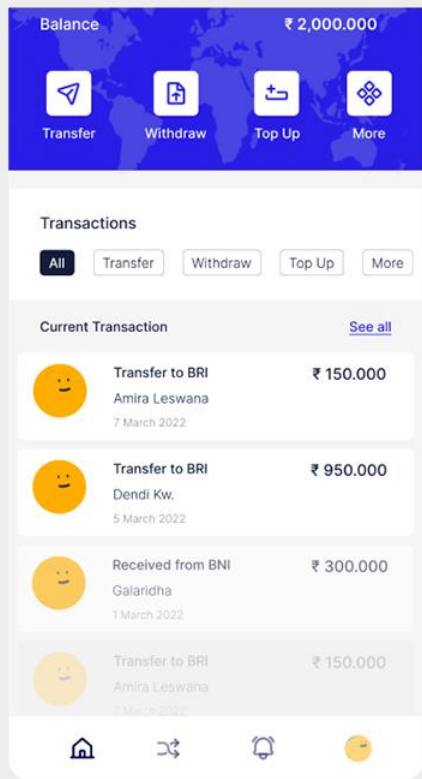
- Leveraged ActiveMQ JMS for efficient and reliable communication between microservices.
- Utilized Jenkins and Kubernetes architecture for continuous integration and deployment.
- Java's extensive support for cryptography and secure coding practices, ensured compliance with regulations and protect sensitive data

Solution Highlights

- Implemented effective service discovery and orchestration mechanisms to ensure seamless communication and coordination between microservices.
- Automated build, testing, and deployment processes to ensure efficient and reliable delivery of new features and updates.
- Stayed updated with compliance regulations and implement necessary controls to maintain data privacy and security.

Tech Stack





A Class-Leading Digital Lending Cloud Platform

Designed and developed to empower financial institutions with tomorrow's lending ecosystem today.

Streamlined Operations

Improved Performance

UI/UX

Risk Management

Outcomes

Efficient Decision-Making

- The app's strong algorithm-driven recommendation engine enabled investors to make efficient investment decisions.

Enhanced Performance

- The rule-based workflow engine allows for the automation of repetitive tasks, eliminating manual errors and improving overall efficiency.

Improved Risk Management

- Incorporated compliance and risk management features to ensure that lending operations adhere to regulatory standards and mitigate risks.

Solutioning

Challenges

- Ensuring the lending process aligns with evolving KYC and compliance regulations.
- Efficient onboarding of customers while ensuring accurate data collection and verification is a challenge.
- Accommodating various loan types, rules, and workflows without compromising performance.

Technical Spotlight

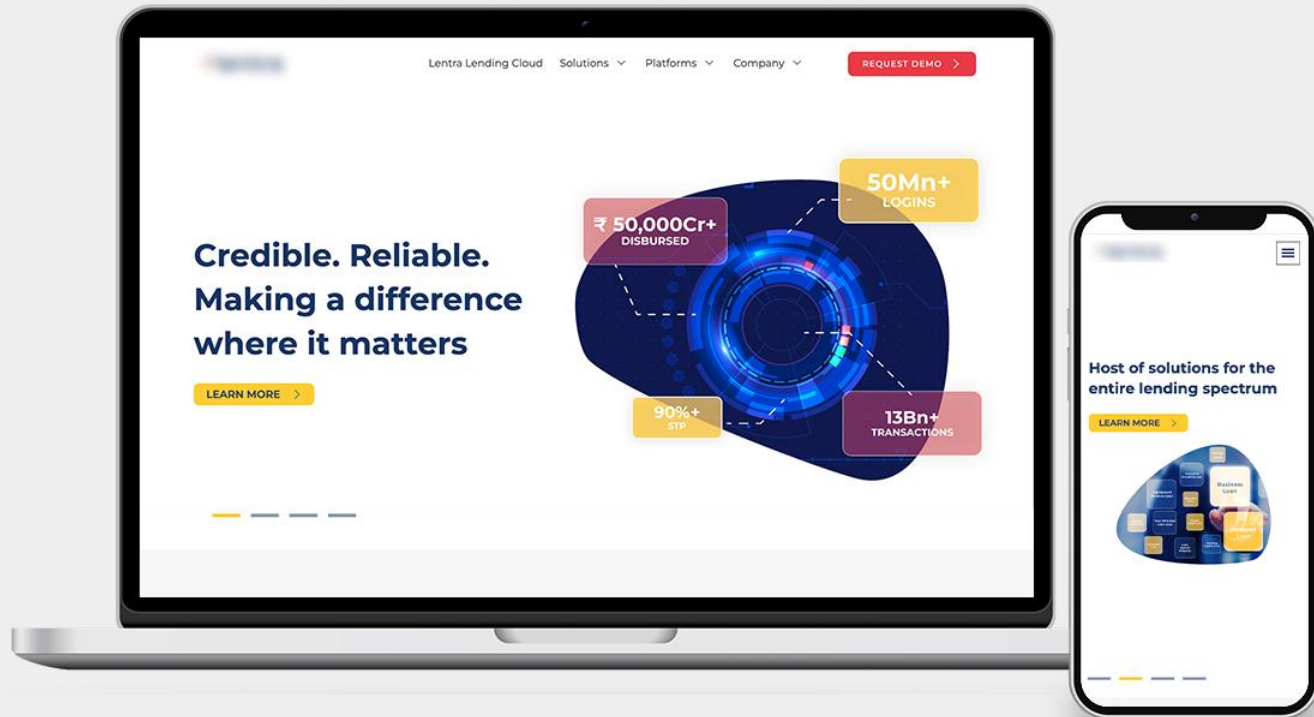
- Leveraged Java to handle high-volume transactions and large datasets efficiently.
- Spring provided robust security features to protect sensitive customer data and ensure compliance with regulatory requirements.
- Implemented MongoDB's document-based data model to enable easy integration and handling of various loan types.

Solution Highlights

- Implemented automated tools and integrations that help monitor and adapt to changing regulations.
- Implemented digital onboarding solutions that leverage technology to enhance the onboarding process, reduce manual effort, and improve efficiency.
- Utilized a flexible and rule-based workflow engine to enable customization and extension of the loan origination system to different loan types.

Tech Stack





A One-Stop Destination for Comprehensive Financial Solutions

Discover broking, wealth management, lending, financial products distribution, and investment banking.

Enhanced Accessibility

Seamless Integration

UI/UX

Advanced Security

Outcomes

Streamlined Processes

- Implemented efficient and automated workflows thus reducing manual efforts and enhancing operational efficiency.

User-Friendly Interface

- Designed a user-friendly interface ensuring easy navigation and seamless user experience.

Regulatory Compliance

- Complied with regulatory requirements and industry standards to safeguard investor interests, protecting user data, transactions, and investments through robust security measures and encryption protocols.

Solutioning

Challenges

- Ensuring the security of user data, transactions, and investments, protecting against cyber threats and unauthorized access.
- Integrating with multiple stock exchanges, mutual fund houses, and other financial institutions to provide a wide range of investment options.
- Providing a seamless and user-friendly experience.

Technical Spotlight

- Leveraged Core Java's vast collection of libraries and APIs to integrate with external systems, market data providers, and financial exchanges.
- Utilised SQLite's built-in security features, such as encryption and secure storage, to protect sensitive user information and financial data.
- Implemented Glide to enhance the user experience and reduce latency when displaying stock logos, user avatars, or other visual elements.

Solution Highlights

- Implemented robust security measures such as encryption, two-factor authentication, secure socket layer (SSL) certificates, and regular security audits for a secure trading environment.
- Developed robust APIs and integration frameworks to facilitate seamless data exchange and transaction processing with external systems.
- Continuously improved the user interface (UI) and user experience (UX) design, and optimized processes to streamline account opening and trading workflows.

Tech Stack



Kotlin



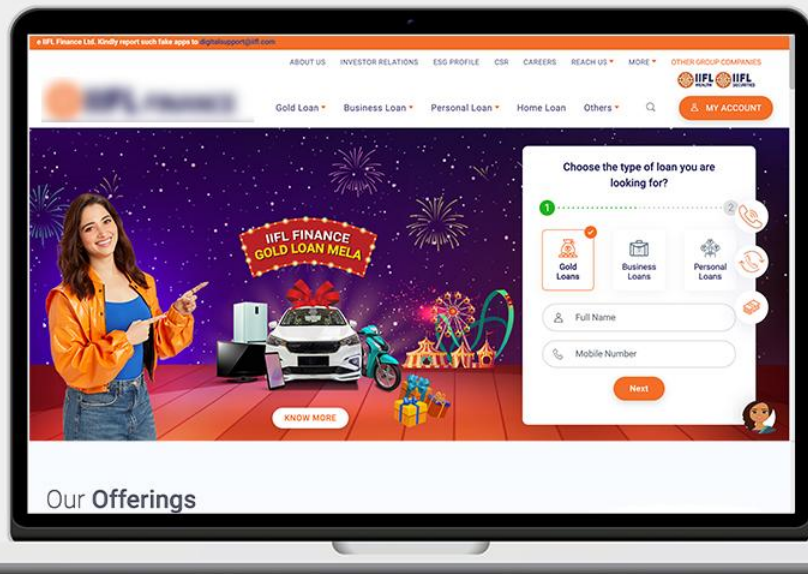
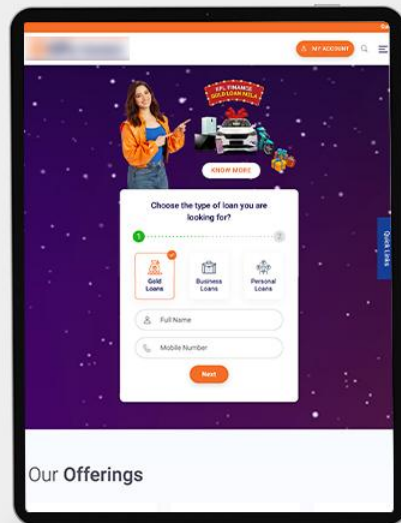
Retrofit

OkHttp



Windows Server

Google APIs



A Leading Telecommunications Company In Europe And Africa

A focus on managing and protecting digital identities and ensuring privacy in the digital world.

Enhanced User Authentication

Personalisation

UI/UX

API Development

Outcomes

Improved User Authentication

- Provided secure and reliable user authentication using the OpenID Connect protocol.

Enhanced Data Security

- Implemented secure authentication mechanisms and adhered to privacy regulations to ensure that user data is handled securely and with utmost privacy.

Advanced Personalisation

- By collecting user information during the authentication process the app can provide a personalized user experience.

Solutioning

Challenges

- Implementing authentication with OpenID Connect.
- Building API and backend services using REST API and Spring Boot.
- Collecting user information securely that complied with data protection regulations.

Technical Spotlight

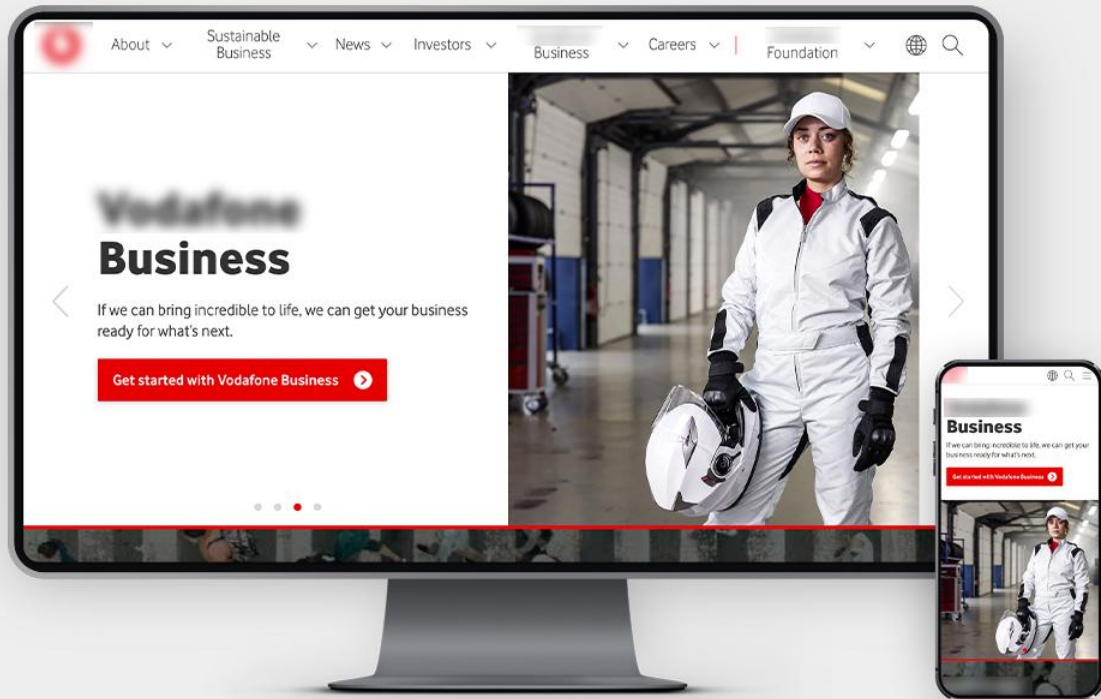
- Leveraged OpenID Connection for a standardized protocol for user authentication, simplifying the authentication process for users.
- Implemented Java's scalability and performance capabilities to handle large volumes of user authentication requests.
- Utilized Couchbase for its in-memory caching capabilities, allowing frequently accessed data to be stored in memory for faster retrieval.

Solution Highlights

- Developed a robust authentication system that integrates OpenID Connect effectively to ensure maximum security.
- Followed best practices for API development, including proper resource modeling, error handling, and versioning.
- Implemented strong data protection measures, including encryption, secure storage, and access controls, and complied with relevant privacy regulations to ensure transparent data handling practices.

Tech Stack





A Dynamic Multinational Professional Services Network

Explore audit, tax, consulting, risk advisory, and financial advisory services.

Customer Experience

UI/UX

Advanced Security

Outcomes

Enhanced User Experience

- Enabled easy search for new opportunities, applying for positions, and tracking the progress of their applications.

Proactive Issue Resolution

- Ensured the application's performance, stability, and security, leading to efficient performance and functionality.

Improved Security

- Implemented robust security measures to instill user trust and confidence.

Solutioning

Challenges

- Need to handle a large number of users accessing the system simultaneously
- Protecting sensitive data within the admin section.
- Ensuring the application's performance, security, stability, and overall quality.

Technical Spotlight

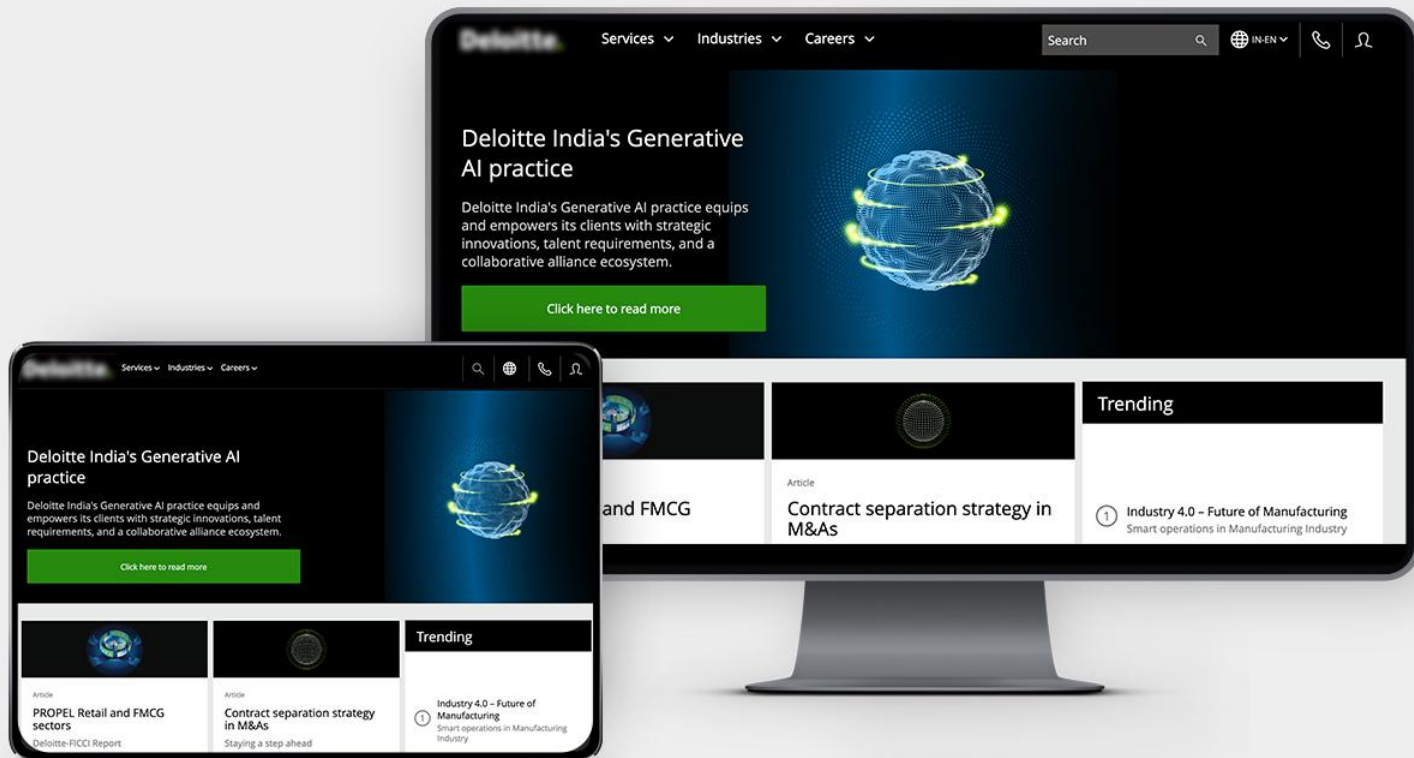
- Java enabled the designing, implementing, and development of feature-rich user and admin sections that can handle a large volume of users and data.
- Utilized Azure's built-in redundancy and disaster recovery capabilities to ensure high availability and data protection.
- Implemented Spring Boot for its monitoring and management capabilities.

Solution Highlights

- Implemented load balancing and horizontal scaling techniques to distribute user traffic across multiple servers ensuring smooth performance.
- Implemented role-based access control (RBAC) to restrict access to the admin section and ensure that only authenticated users can view and modify data.
- Implemented robust testing methodologies, including unit testing, integration testing, and performance testing, to identify and address any issues

Tech Stack





A Renowned Motorcycle Manufacturer Based In India

A platform to showcase information about motorcycles, accessories, dealers, and services.

Operator Expansion

User Convenience

UI/UX

Geolocation

Outcomes

Enhanced User Experience

- Enabled tour customers to easily browse and book various tour options, making the process efficient and enjoyable.

Increased Operator Participation

- Simplified rental operators to join the platform and start offering bikes for rent, expanding the available options for customers.

Accurate Geolocation

- Offered comprehensive tracking and reporting for admins to monitor rental and tour activities, identify trends, and make data-driven decisions.

Solutioning

Challenges

- Ensuring seamless booking experience for Rental Customers, including accurate location-based bike availability.
- Managing and onboarding Rental Operators efficiently to enable them to sell bikes on rent.
- Ensuring effective oversight and control for Tours Admins to manage operator activities and ensure quality standards.

Technical Spotlight

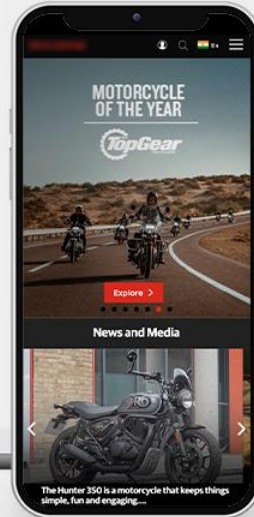
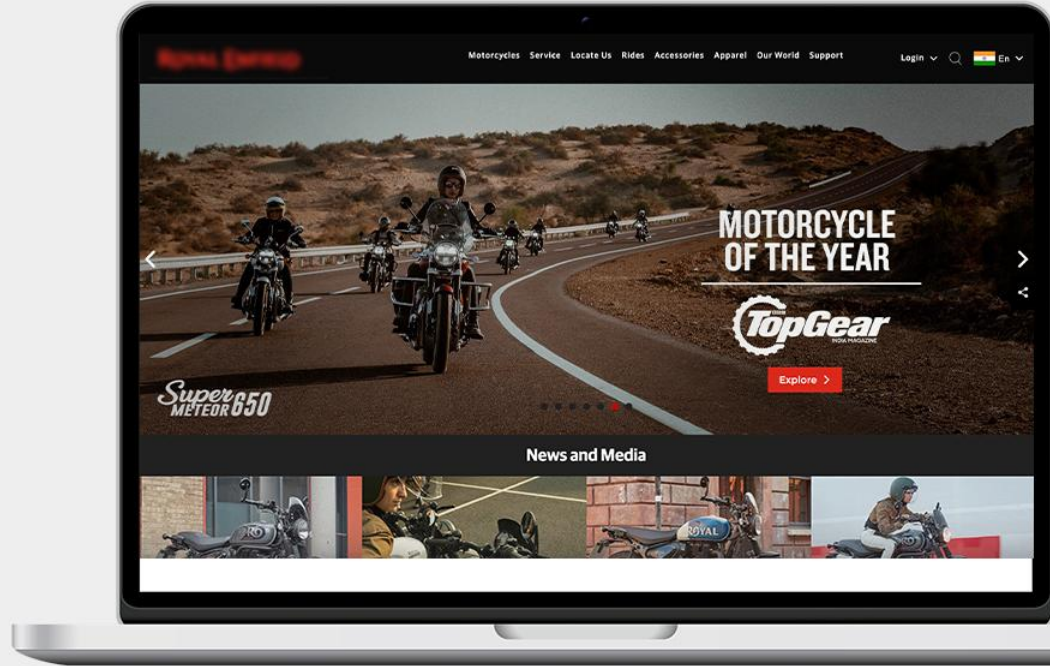
- Leveraged Java's ability to run on any operating system or platform to provide flexibility and accessibility to users and admins.
- Leveraged React Js to save development time and effort, while ensuring consistent and visually appealing user interfaces.
- Implemented Razorpay for a seamless integration with various payment methods.

Solution Highlights

- Implemented a robust booking system with real-time data synchronization for bike availability and location tracking.
- Developed an operator registration and verification process, along with a user-friendly dashboard for operators to manage their listings and rental services.
- Implemented an admin dashboard with monitoring features, tour approval workflows, and reporting capabilities to ensure compliance and quality control.

Tech Stack





One Of The Leading Mutual Fund Companies In India

A dynamic platform for investors to access information and services related to SBI Mutual Fund.

Deep Linking

UI/UX

Payment Gateway

Outcomes

Implemented Deep Linking

- Deep linking improved engagement by providing relevant information and simplifying navigation within the platform.

Enhanced User Experience

- By providing a user-friendly interface and streamlining the mutual fund redemption and investment process, the platform improved the overall user experience.

Convenient Payment Option

- The integration of the UPI payment gateway and virtual payment ID offered users flexibility in making secure and hassle-free transactions.

Solutioning

Challenges

- Providing a user-friendly interface for selecting the desired mutual fund and inputting investment details.
- Integrating various payment gateways to make it easy for users.
- Delivering timely and personalized notifications, such as push notifications or in-app notifications.

Technical Spotlight

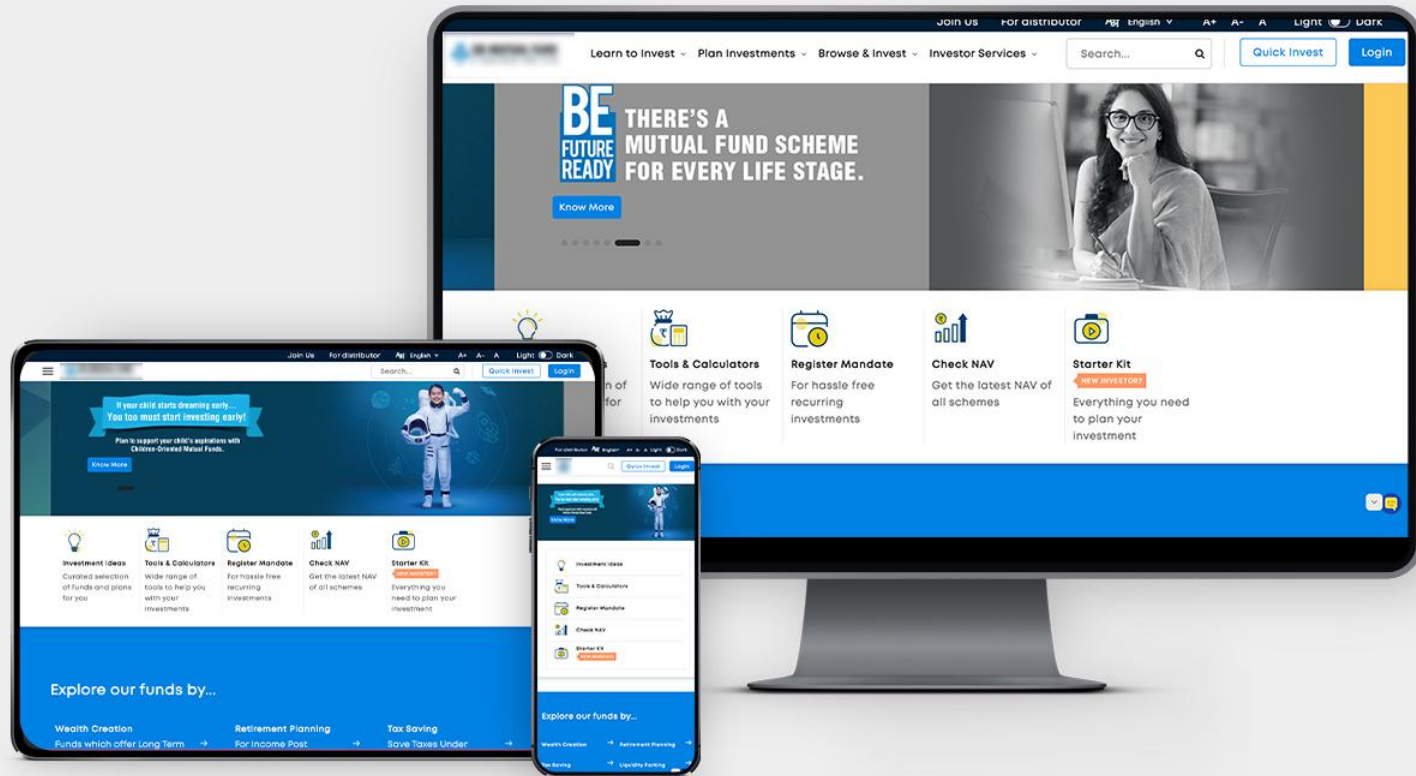
- Leveraged Java to ensure multi-platform availability to ensure wider reach and accessibility for users across different devices.
- Leveraged Paytm to allow users to choose their preferred payment mode, thus enhancing flexibility and accessibility.
- Implemented AppICE to enable automation and scheduling of notifications, making it easier to send notifications at predetermined times or in response to specific events.

Solution Highlights

- Implemented a well-designed user interface with clear information about different funds, their performance, and risk profiles.
- Ensured seamless selection of folio and fund details, choice in the desired payment mode, and secure completion of transactions.
- Utilized a reliable third-party notification service like appICE that helped handle the delivery of notifications efficiently.

Tech Stack







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