NoVA Ascend Dynamics
TRANSFORMING VISIONS, IGNITING GROWTH

Capabilities

Development and Operations

About Us

Great Place To Work. Certified INDIA

25+ YEARS OF EXCELLENCE

CMMIDEV/5

Overview

4000+ Employees

10 Global Offices

9 Development Centers

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

Clientele

1500+ Clients

50+ Countries

85% Clients Retention

Industry Verticals **22+**

Achievements

2000+ Products Engineered

1500+ Applications Developed

12+ Awards

20+ Million Development Hours

Partners

aws

SAP

Microsoft

Google Cloud

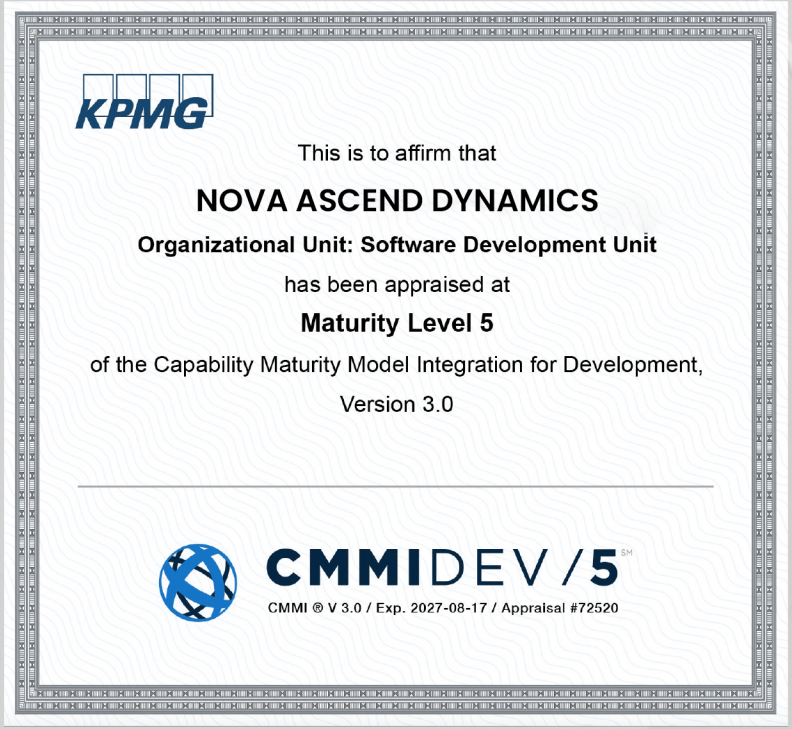
Magento

shopify

WOO COMMERCE

Certified To Deliver Quality

Great Place To Work.
Certified
OCT 2024-OCT 2025
INDIA



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 Nova Ascend Dynamics 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.

Services we Offer

DevOps Consulting

- DevOps Assessment & Strategy
- Maturity Model Evaluation
- Maturity Roadmap & Blueprint
- Jumpstart Program

DevOps In Cloud

- Cloud Architecture Design
- Cloud Readiness Assessment
- Cloud Migration Services
- Managed Cloud Services
- Cloud Consulting Services

DevOps Enablement

- Continuous Integration
- Continuous Delivery
- Coded Pipelines
- Test Automation
- Service Virtualization
- SCM & Development/Test Tool Automation
- Cross-platform Migration
- DevOps Cloud Migration
- Code Repository
- Security PARAM's & Measurements on Demands

Smarter Environments

- Infrastructure as Code (AWS CloudFormation)
- Configuration Management (Puppet, Chef, Ansible)
- Container Management (Docker, Swarm, Vagrant)
- Application Container Packs
- Application & Infra Monitoring
- Test Data Management

Nova Ascend Dynamics Expertise

- Thorough understanding of DevOps
- Experienced in leading and implementing DevOps at Fortune 500 companies
- Assessment and Value Stream Mapping
- Implement Best Practices, CI/CD and Migration to Cloud
- Expert assistance in coding, building, testing, releasing, monitoring, and more
- We implement CALMS(R) principles – Culture, Automation, Lean, Measurement, Sharing and Recovery.
- Demonstrated track record at Enterprise level rollout approaches, strategies and transformation to DevOps.

5+
Years of Experience

100+
Active Customers

100+
DevOps Implementations

60+
Certified Architecture and DevOps Professionals

A Strategic Approach

Culture

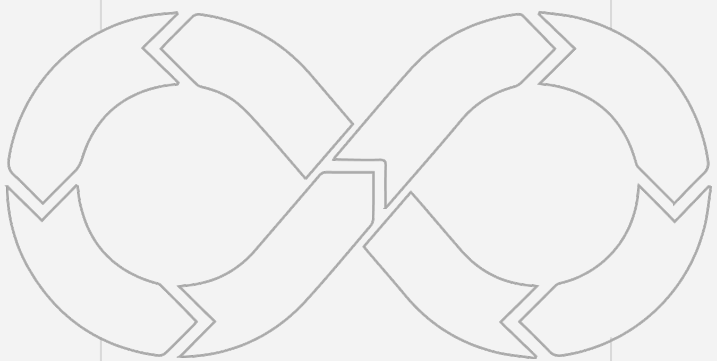
Building Trust

- Organizational alignment
- Effective leadership
- Continual learning

People

Bringing them Together

- Collaborate more
- Share common goals
- Focus on improvement



Tools

Our Strategy

- Enhance productivity
- Enable collaboration
- Facilitate experimentation

Process

Delivering Value Faster

- Eliminate waste
- Increase efficiency
- Streamline feedback

The Life Cycle

01. **Plan**

Use agile practices to break work into smaller, manageable tasks

02. **Build**

Version control and automation for the development build process

03. **Continuous Integration**

Continuous integration of code from multiple contributors to frequently merge code changes into a central repository

04. **Continuous Deployment**

Continuous integration of code from multiple contributors to frequently merge code changes into a central repository

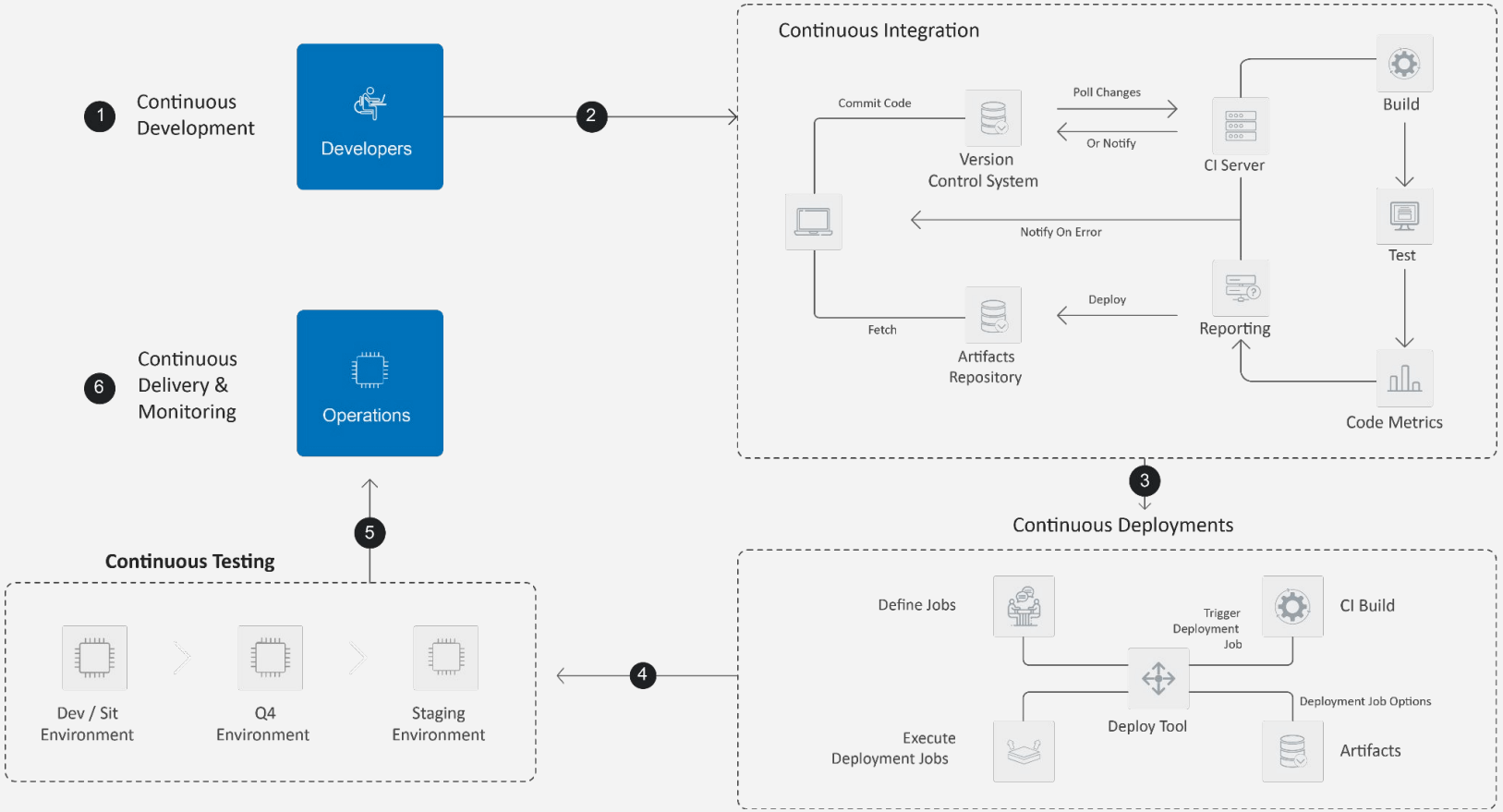
05. **Monitor & Operate**

Monitor the development, integration, deployment, and troubleshoot applications in production

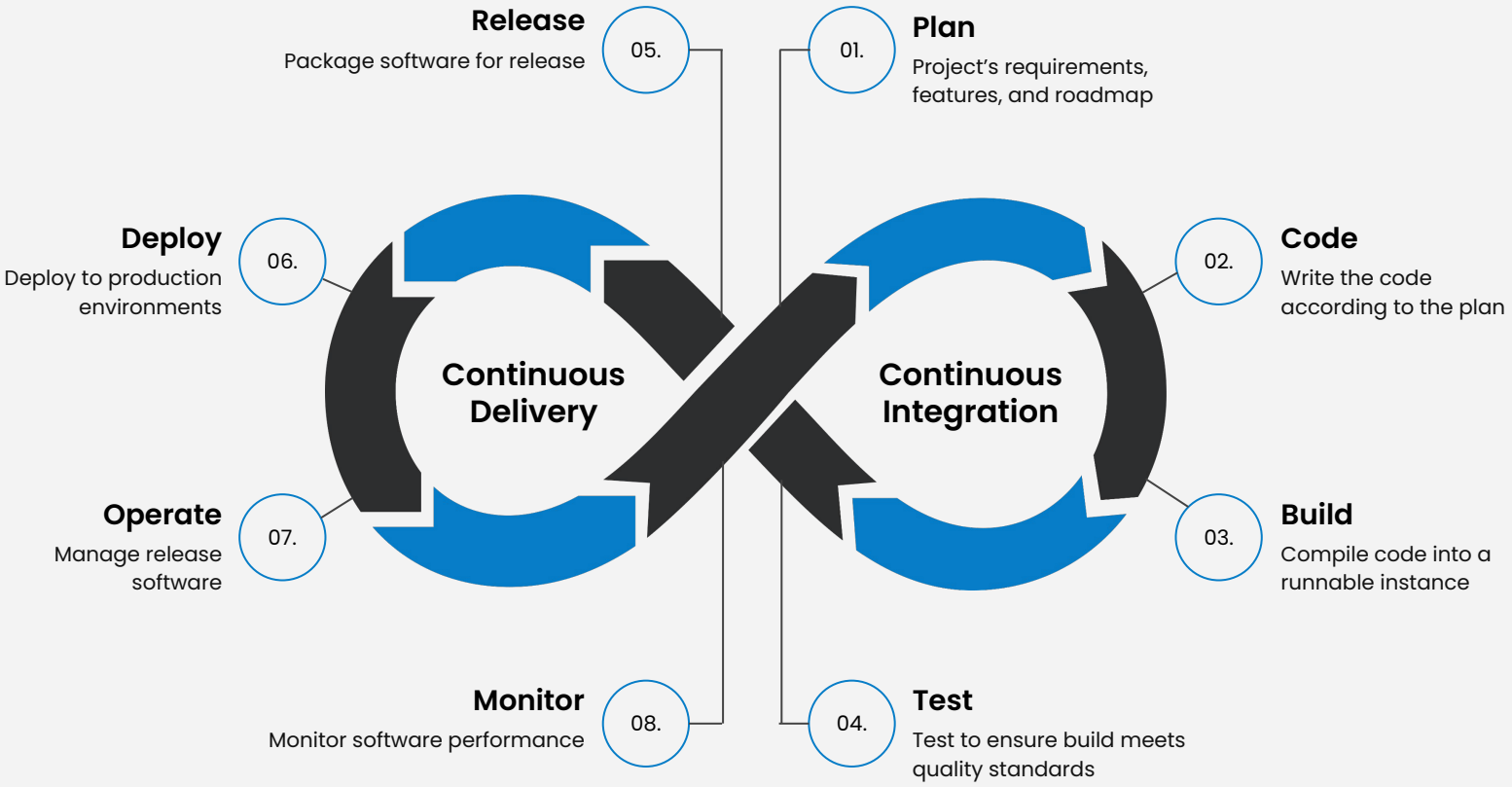
06. **Continuous Feedback**

Evaluate each release and generate reports to improve future releases

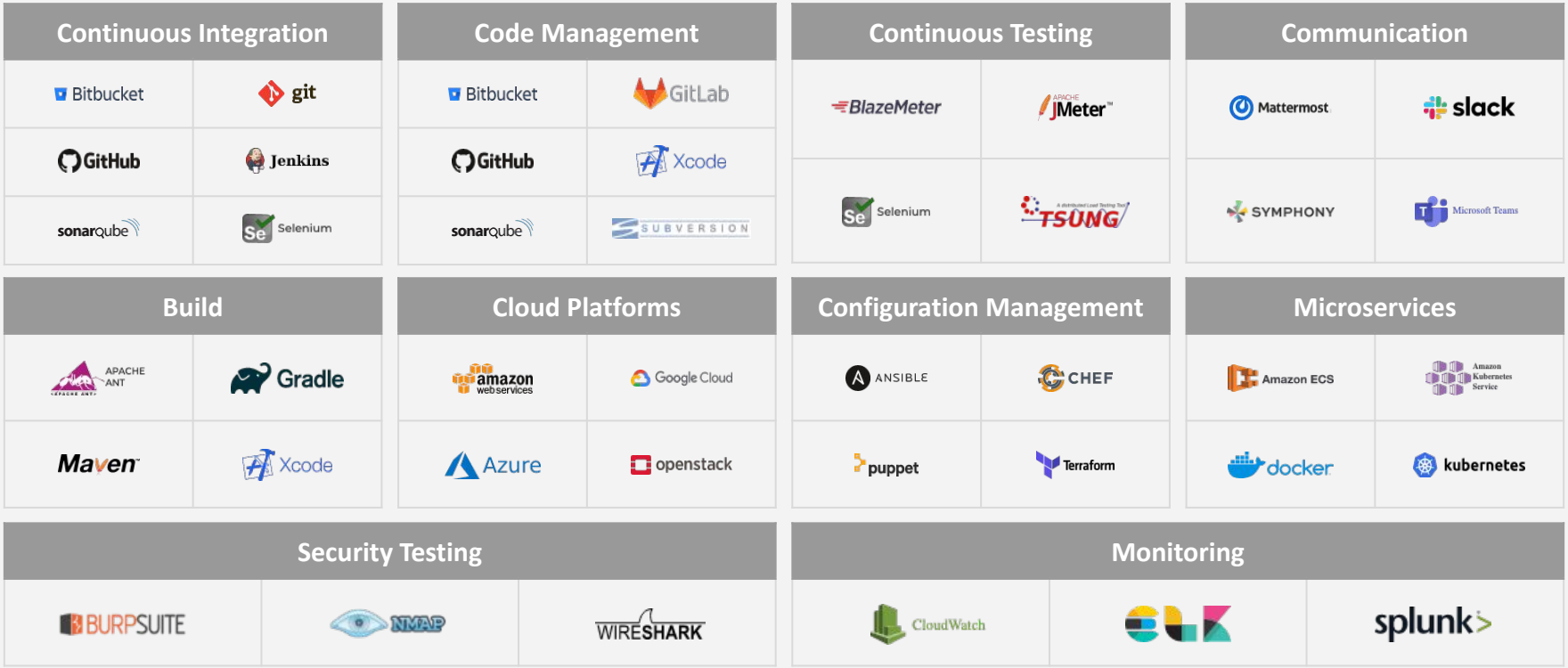
Well-Planned Model



CI/CD Framework



DevOps Tool Chain



Selected Clientele

Case Studies

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

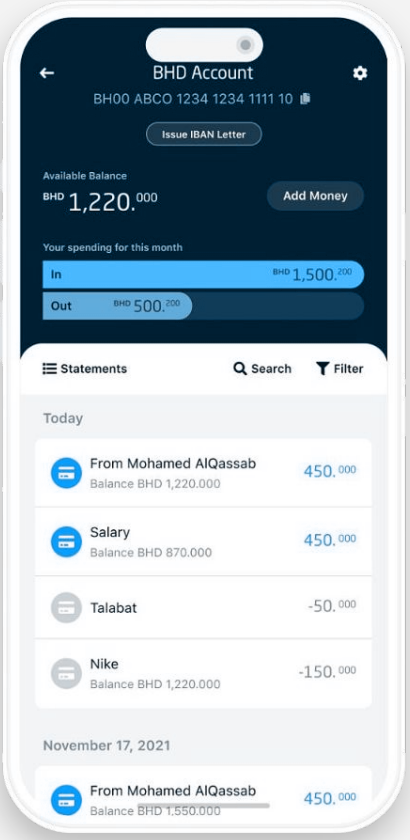
- Leveraged ActiveMQ JMS for efficient and reliable communication between microservices.
- Utilized Jenkins and Kubernetes architecture for continuous integration and deployment.
- Java's extensive support for cryptography and secure coding practices, developers ensured compliance with regulations and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

Core Java | Java J2EE | SQLite | Microsoft SQL Server | PostgreSQL | spring | HIBERNATE | spring boot


BHD Account
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Issue IBAN Letter
Available Balance
BHD 1,220.000
Add Money
Your spending for this month
In BHD 1,500.200
Out BHD 500.200
Statements
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Filter
Today
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Salary
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Talabat
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Nike
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November 17, 2021
From Mohamed AlQassab
Balance BHD 1,550.000
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Accounts
Al Kanz
Savings
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Save and win
New
Fixed Deposit
Investment accounts
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Hassala
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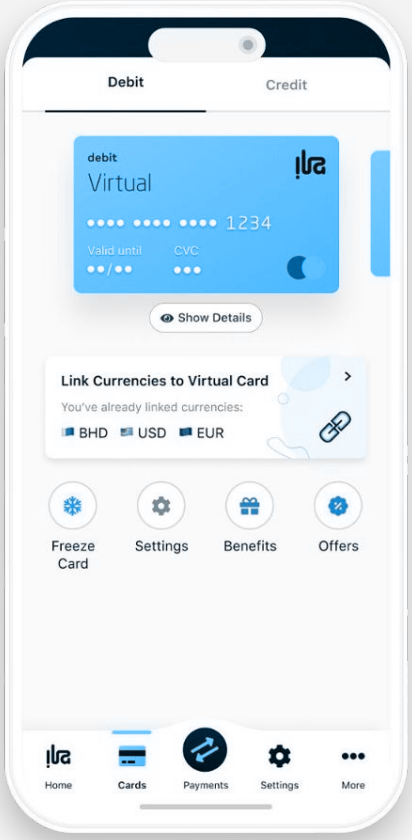
Debit
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Valid until
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Link Currencies to Virtual Card
You've already linked currencies:
BHD USD EUR
Freeze Card
Settings
Benefits
Offers
Home
Cards
Payments
Settings
More

A Major Financial Institution Based In South Africa

Streamlined and enhanced the efficiency of trade transactions between two countries.

Scalable Infrastructure | Efficient Management | UI/UX | Secure Transactions

Outcomes

Enhanced Efficiency

- Developed a user-friendly interface and intuitive user experience, improving the overall efficiency of trade finance operations.

Scalable Infrastructure

- Enabled the system to handle increasing transaction volumes efficiently, ensuring reliable and uninterrupted trade finance operations.

Secure Transactions

- Ensured the security, transparency, and immutability of transaction records to enhance trust and confidence among participants, mitigating the risks of fraud and providing a reliable platform for trade finance activities.

Solutioning

Challenges

- Trade finance involves sensitive financial information, so ensuring the security and privacy of data was crucial.
- The system needed to be able to handle high volumes of concurrent transactions efficiently.
- Integrating multiple technologies and platforms like Node.js, React.js, Hyperledger Fabric, IBM Cloud, and Azure.

Technical Spotlight

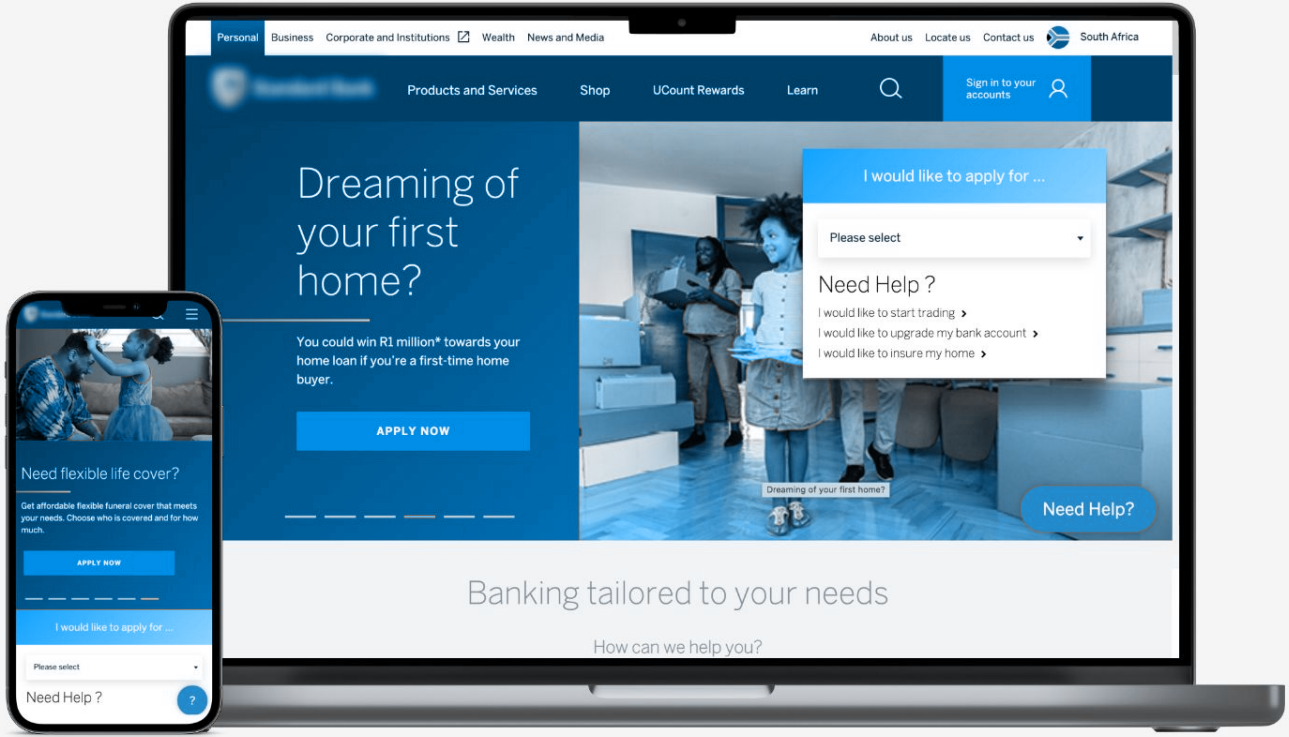
- Utilised DLT Watcher for monitoring blockchain transactions to ensure added security.
- Leveraged logdna and kubernetes for monitoring logs to maintain smooth transactions.
- Utilized Node JS, React JS and Hyperledger fabric to develop a solution to manage trade finance.

Solution Highlights

- Implemented industry-standard security protocols, encryption techniques, access controls, and regular security audits to help address security and privacy concerns.
- Utilized load testing tools, performance monitoring, and employing performance optimization techniques to ensure maximum performance and scalability.
- Utilized testing frameworks and methodologies to ensure seamless integration and data synchronization.

Tech Stack

node JS · Azure · HYPERLEDGER FABRIC · Linux · React


Personal
Business
Corporate and Institutions
Wealth
News and Media
About us
Locate us
Contact us
South Africa
Products and Services
Shop
UCount Rewards
Learn
Sign in to your accounts
Dreaming of your first home?
You could win R1 million* towards your home loan if you're a first-time home buyer.
APPLY NOW
I would like to apply for ...
Please select
Need Help ?
I would like to start trading
I would like to upgrade my bank account
I would like to insure my home
Dreaming of your first home?
Need Help?
Banking tailored to your needs
How can we help you?
Need flexible life cover?
Get affordable flexible funeral cover that meets your needs. Choose who is covered and for how much.
APPLY NOW
I would like to apply for ...
Please select
Need Help ?

An Insurance Aggregator Partnering with over 50 Indian Insurance Companies

Created an application providing versatile insurance service providers with value-added services.

CX | Payment Gateways | Ai

Outcomes

Enabled policy comparison

- Designed an intuitive platform enabling policy comparisons to facilitate informed decision-making.

Versatile payment gateways

- Integrated various payment gateways to aid and expedite the insurance purchasing process.

Responsive customer support

- Leveraged customer support in the platform to ensure quick query and issue resolution.

Solutioning

Challenges

- To set up infrastructure for different SaaS clients in a scalable and efficient manner.
- Implementing advanced security measures to ensure complete data protection of all entities involved.
- Developing an interacting platform to coordinate communications among multiple entities.

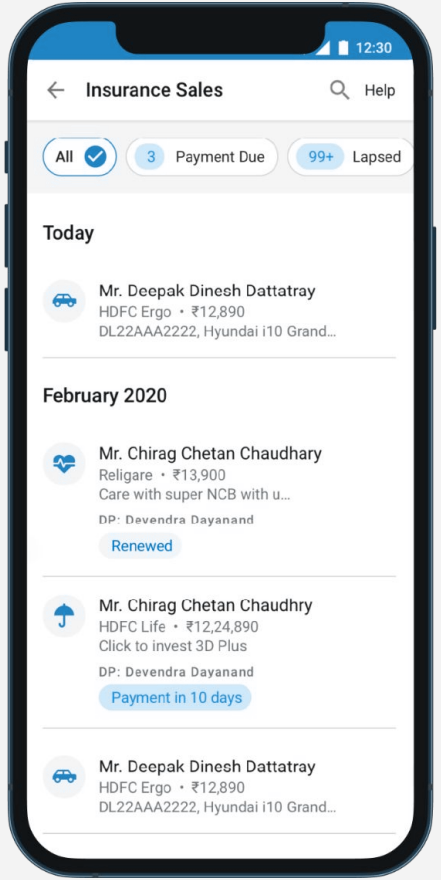
Technical Spotlight

- Leveraged Docker and Kubernetes to create a scalable and manageable infrastructure.
- MongoDB has flexible and dynamic schemas that allow data to be stored in a variety of formats.
- Integrated the high-performant Play API that allows the framework to handle large volumes of requests and deliver fast response times.

Solution Highlights

- Helped SRE and Devops team to setup infra for different SaaS clients.
- Incorporated robust security and privacy features, such as encryption of sensitive data and secure authentication to ensure maximum safety.
- Built an innovative application that streamlined the signup process to quickly onboard new users.

Tech Stack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Mr. Chirag Chetan Chaudhry
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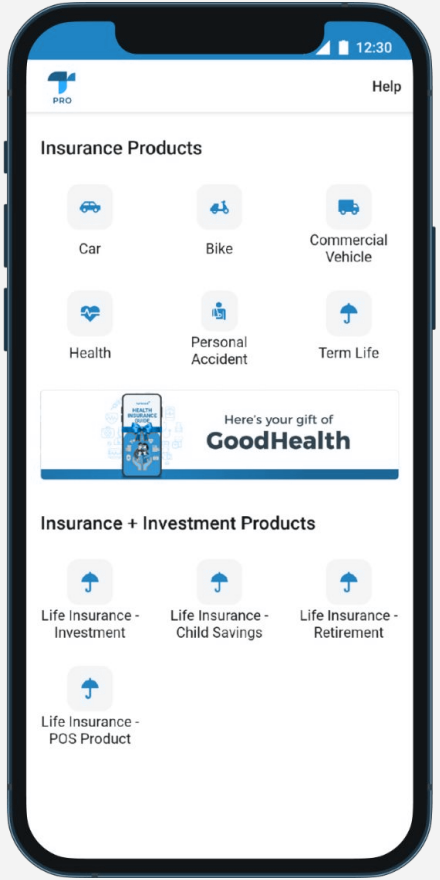
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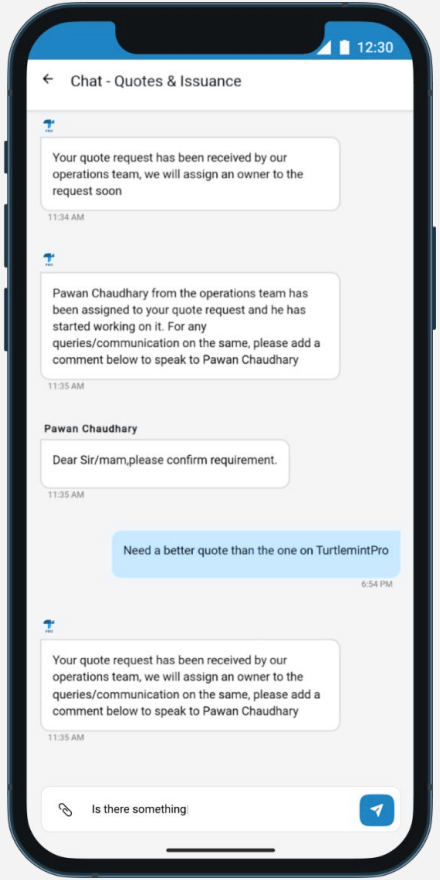
Life Insurance - Investment
Life Insurance - Child Savings
Life Insurance - Retirement
Life Insurance - POS Product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Chat - Quotes & Issuance
Your quote request has been received by our operations team, we will assign an owner to the request soon
11:34 AM
Pawan Chaudhary from the operations team has been assigned to your quote request and he has started working on it. For any queries/communication on the same, please add a comment below to speak to Pawan Chaudhary
11:35 AM
Pawan Chaudhary
Dear Sir/mam,please confirm requirement.
11:35 AM
Need a better quote than the one on TurtlemintPro
6:54 PM
Your quote request has been received by our operations team, we will assign an owner to the queries/communication on the same, please add a comment below to speak to Pawan Chaudhary
11:35 AM
Is there something

A Leading Logistics Technology company Providing Supply Chain Softwares

Engineered a seamless digital Logistics Marketplace and Shipment Management platform

Platformization | Product Engineering | Order Management | Dynamic Pricing | Automation

Outcomes

Upto 80% Cost Savings on Shipment Management

- Centralized and streamlined shipment operations along with accurate and improved freight quotes processing.

Secured Marketplace

- Procured all-inclusive freight rates along with making instant bookings and manage shipments online. Improved visibility & transparency in pricing and order management.

Automation

- Automated visibility access to manage imports, exports and all other shipment operations at one place. Gained in-depth insights on the tenders managed throughout the shipment journey.

Solutioning

Challenges

- Inconvenience in quote-generation and sharing between the vendors and customers.
- Adoption of Manual methods for shipment management operations.
- Difficulty in managing import and export of commodities.
- Complicated registration process and workflow management.

Technical Spotlight

- Leveraged Python for an efficient web application using Django Framework for quick development, clean, and maintainable design.
- Used Docker for handy encapsulation, isolation, portability, and control.
- Deriving summary statistics of numerical and categorical fields using PostgreSQL.
- Used Slack for sharing real-time updates with partners.

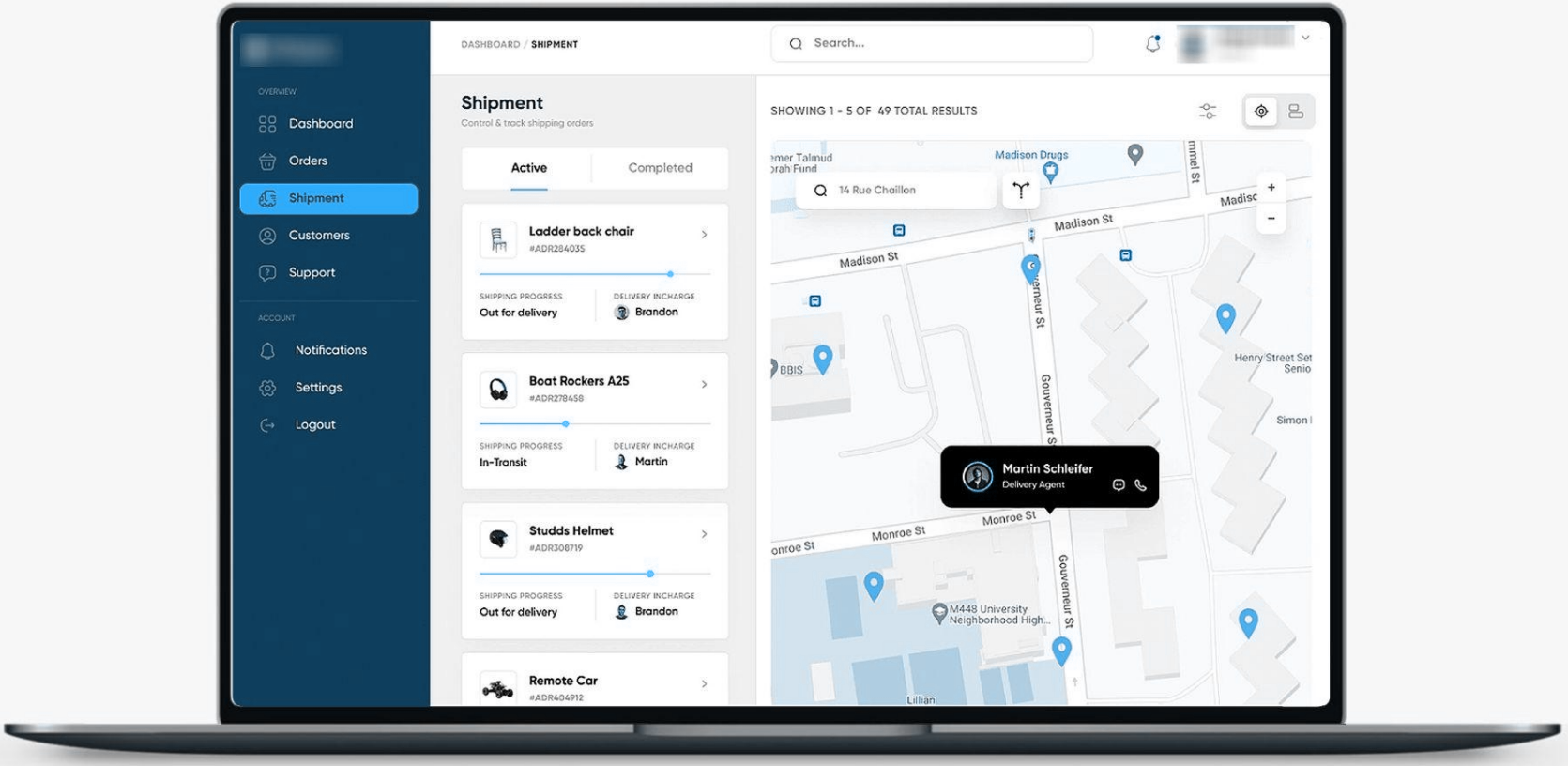
Solution Highlights

- A seamless logistics marketplace for vendors and customers.
- Faster and on-time shipments.
- Ready for strong volume fluctuations.
- Shipment management dashboard and advanced data analytics.

Tech Stack

Core Java

Java EE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SHIPPING PROGRESS
Out for delivery
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Martin Schleifer
Delivery Agent
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Lillian
Henry Street Set
Senio

A Leader In Auto Insurance Services

A digital platform to provide easy access to insurance policy details, tools, and services on the go

CX | UI/UX | Geolocation

Outcomes

Efficient Workflow

- Easy access and management of insurance policy details, along with making payments, and updating contact information.

Streamlined Processes

- The app allows policyholders to report a claim, upload photos of the damage, and track the progress of their claim, reducing the time and effort required.

Google Maps

- Geolocation helps provide roadside assistance directly through the app, including services like towing, jump-starts, and fuel delivery.

Solutioning

Challenges

- Creating an app that is easy to use, visually appealing, and provides a seamless experience to enhance the user experience.
- Implementing robust security features to protect against cyber threats and ensure data privacy.
- Ensure compatibility with different devices to ensure that the app functions correctly across all platforms.

Technical Spotlight

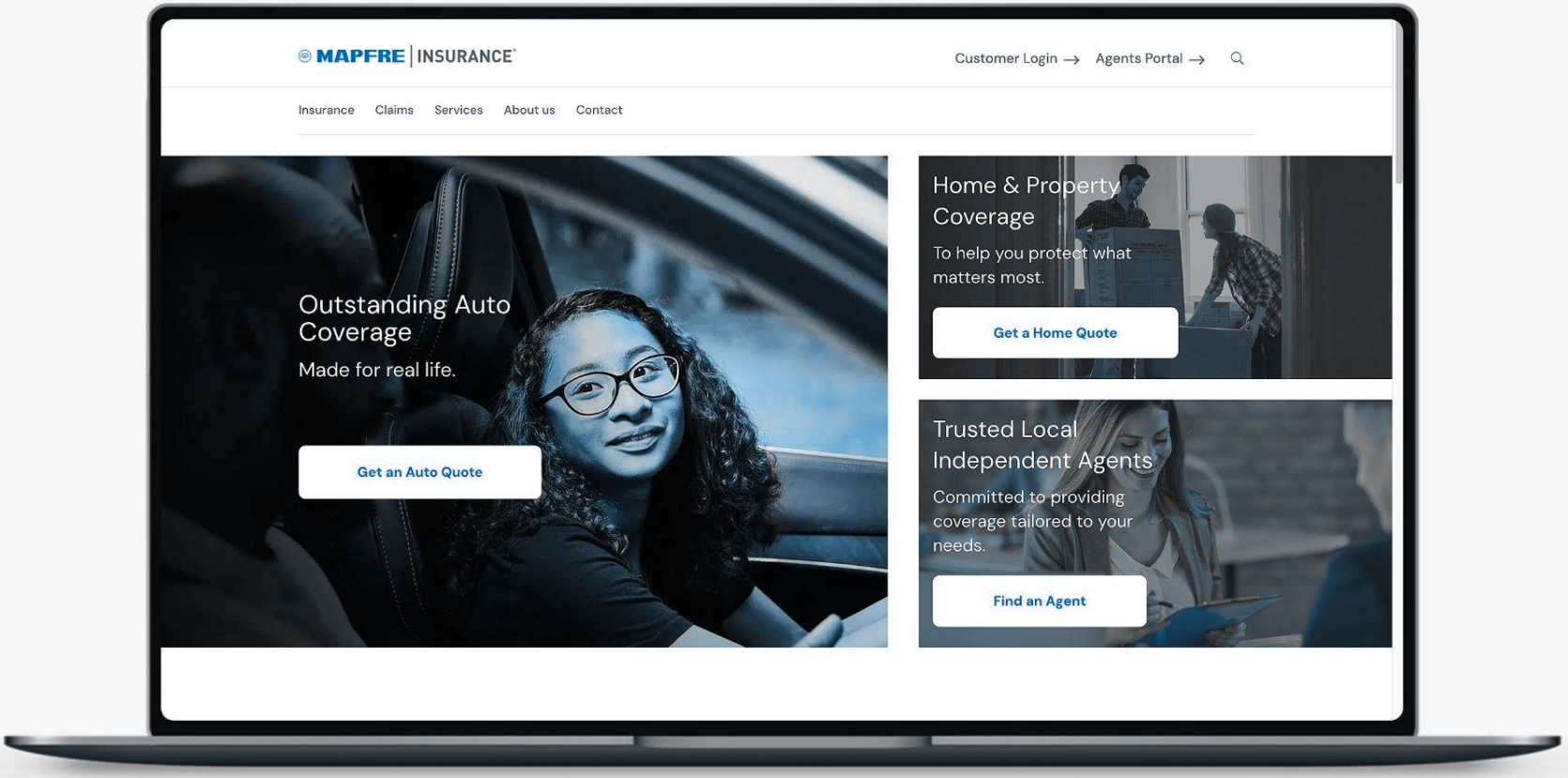
- The app features an augmented reality feature that allows users to view the relevant services in their surroundings using the camera of their mobile devices.
- Geolocation provides users with location-based services such as locating the nearest service center or emergency services.
- Implementing cloud computing to store and process user data, making it easily accessible across different devices and platforms.

Solution Highlights

- Streamlines management of insurance policies, viewing policy details, and making payments.
- Implementing AI/ML algorithms to analyze user data helps provide personalized recommendations to users, such as policy upgrades or relevant services.
- Geolocation allows users to locate auto insurance service centers, including repair shops and tow truck services.

Tech Stack

python Java ORACLE docker


MAPFRE | INSURANCE
Customer Login →
Agents Portal →
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Services
About us
Contact
Outstanding Auto Coverage
Made for real life.
Get an Auto Quote
Home & Property Coverage
To help you protect what matters most.
Get a Home Quote
Trusted Local Independent Agents
Committed to providing coverage tailored to your needs.
Find an Agent

A Prestigious Fulfillment Service Provider Across 50+ Countries

Developed an internal management system to manage and fulfill orders placed by customers.

Systemised Database | Streamline payments | Geo location

Outcomes

Organised Inventory

- Enabled businesses to quickly locate and access their stock leading to increased productivity and more efficient operations.

Geolocation

- Accurate information about delivery destinations led businesses to optimize their delivery routes, resulting in faster delivery times and improved efficiency.

Streamlined Payments

- Accurate payment information helped keep track of financial transactions and manage cash flow more effectively.

Solutioning

Challenges

- Required a streamlined inventory management system to carefully monitor stock levels and order fulfillment.
- Needed to integrate payment gateway systems to process payments securely and efficiently.
- Implement user-friendly interfaces, personalized recommendations, and easy navigation to improve user experience.

Technical Spotlight

- Docker ensured that the inventory management system operated seamlessly and consistently.
- Leveraged Django's architecture to build a scalable web application that can handle a high volume of traffic.
- Utilised Celery to provide a priority queue that enables developers to prioritize tasks based on their importance or urgency, ensuring that critical tasks are executed first.

Solution Highlights

- Integrated an inventory management system to help track stock levels, update product information, and manage orders.
- Implemented an order management system to automate order processing, update customers on their order status, and handle returns and refunds.
- Improved product delivery in a timely and efficient manner by including shipping processes, shipment tracking, and offering customers with shipping options.

Tech Stack

python™ | PostgreSQL | Celery | docker | django | Microservice Architecture

Search
Menu
Dashboard
Analytics
Sales
Management
Products
Costomer
Warehouse
Reports
Notifications
Transaction
Message
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Retail Manager
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+50% Incomes
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Daily Sales
-13% Sales
$421k
Daily User
+48% New User
4215
Product
+25% New Product
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Expenses
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On Track

One Of The Largest Private Sector Banks In India

An online platform for various banking services and financial products.

Microservice Architecture | AWS Gateway Integration | Payment Integration

Outcomes

Microservice Architecture

- Utilized a microservice architecture, which allowed for greater scalability, flexibility, and maintainability of the banking and payment services.

AWS Gateway Integration

- It provided features such as API caching, request throttling, and security, allowing for efficient and secure communication between the microservices and external systems.

Enhanced Payment Integration

- The integration of third-party payment providers enabled seamless and secure payment transactions for customers.

Solutioning

Challenges

- Integrating third-party payment providers and ensuring seamless communication between different systems.
- Implementing a microservices architecture with careful design and management to ensure scalability and optimal performance.
- Handling financial transactions with stringent security measures and compliance with regulatory standards.

Technical Spotlight

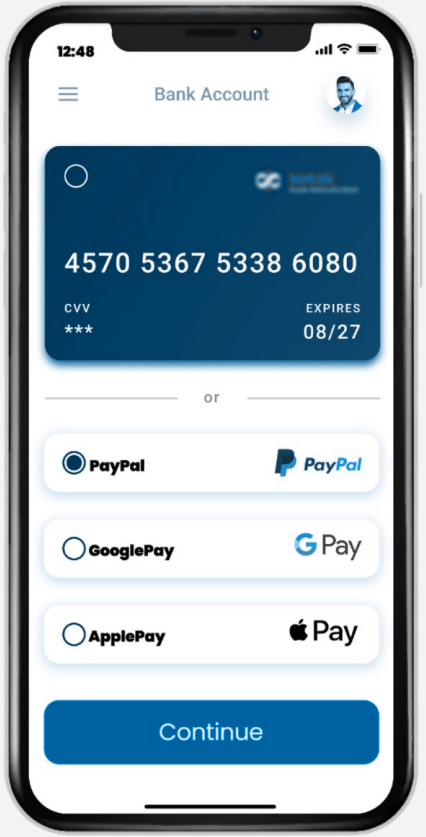
- Microservices architecture made it easier to scale and evolve the system as per the growing demands of the banking and payment industry.
- Implemented containerization using technologies like Docker and orchestration tools like Kubernetes to manage scalability and ensure efficient resource utilization.
- Microservices architecture improved security by isolating services and enforcing strict access control.

Solution Highlights

- Developed a comprehensive integration framework that supports multiple payment providers, standardizes data formats, and enables secure communication.
- Planned and designed the microservices architecture carefully, considering scalability requirements and potential bottlenecks.
- Implement robust security measures such as encryption, secure communication channels, and secure storage of sensitive data.

Tech Stack

spring boot | Microservice Architecture | Celery | docker | Azure DevOps | amazon QuickSight | Prometheus | Grafana | kubernetes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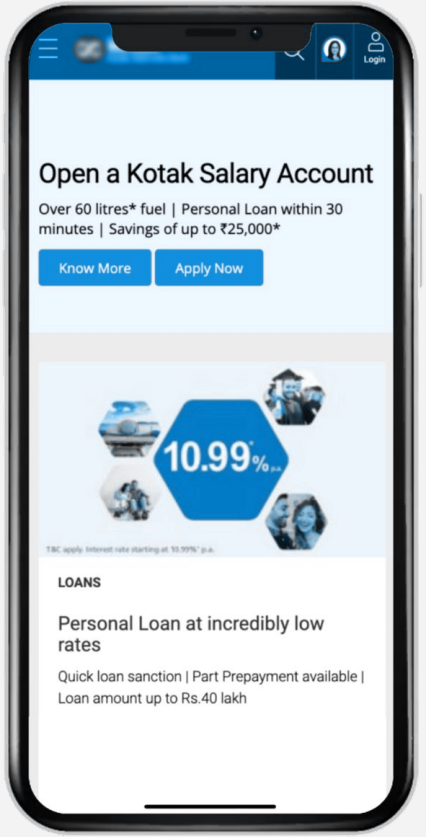
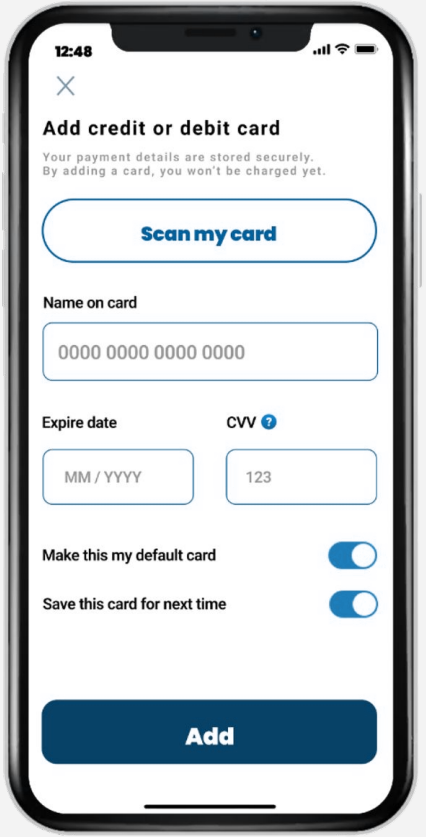

Login
Open a Kotak Salary Account
Over 60 litres* fuel | Personal Loan within 30 minutes | Savings of up to ₹25,000*
Know More
Apply Now
10.99%
LOANS
Personal Loan at incredibly low rates
Quick loan sanction | Part Prepayment available | Loan amount up to Rs.40 lakh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Add credit or debit card
Your payment details are stored securely.
By adding a card, you won't be charged yet.
Scan my card
Name on card
0000 0000 0000 0000
Expire date
CVV
MM / YYYY
123
Make this my default card
Save this card for next time
Add

A Respected Publication In The Advertising And Marketing Industry

An online platform focusing on informing, inspire, and connect professionals.

DevOps Setup | Ui/Ux | Agile Project Management

Outcomes

Well-Defined Project Structure

- The coordination with the business analyst (BA) and client helped in preparing a high-level epic and features.

DevOps Setup

- Facilitated collaboration and ensured a smooth development and deployment process.

Effective Project Management

- Utilized Jira Boards to manage and track the project, maintaining epics, features, user stories, tasks, and bugs.

Solutioning

Challenges

- Setting up the initial project infrastructure, including version control, server environments, CI/CD pipelines, and monitoring setups.
- Managing and tracking the project progress.
- Ensuring thorough testing and resolving bugs identified by the QA team.

Technical Spotlight

- PHP and MySQL provide a scalable and flexible platform for managing the digital media site.
- Adopting an agile methodology, such as Scrum, facilitated better project tracking.
- Test case reviews, bug tracking, and status updates ensured that any issues or bugs identified by the QA team are promptly addressed.

Solution Highlights

- Ensured proper configuration and alignment with project needs.
- Addressed any issues or queries from the team and ensure timely status updates to the client.
- Implementing a robust quality assurance process, including comprehensive test case reviews, bug tracking, and resolution, helped maintain a high-quality standard in the project deliverables.

Tech Stack

python™ PostgreSQL Celery docker django Microservice Architecture

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Amazon Web Services Taps Former SAP, Microsoft Exec Julia White as CMO

Leadership & Talent - By David Cohen 15 hours ago

Amazon Web Services named former SAP chief marketing and solutions officer Julia White as its new CMO.

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Digitally Transforming a US Life-Science Company

Established a cross-platform app for monitoring, managing and executing clinical trials.

Product Engineering | DevOps | Database Management | Data Science

Outcomes

Increased Efficiency

- Shifting away from traditional paper based methods decreased the number of errors and streamlined processes to boost overall efficiency.

Reduced Overall Costs

- Streamlined workflows and effective management of clinical trials ensured costs were kept to a minimum.

Boosted Productivity

- Dedicated modules for monitoring and executing trials as well as insights gained from data increased overall productivity.

Solutioning

Challenges

- Absence of a dedicated system for managing and scheduling clinical trials.
- Lack of a method for collating data collected from the trials to derive accurate insights.
- No method in place for selecting the drugs suitable for being used in human trials for the next stage and identifying individuals that will be ideally suited for testing.

Technical Spotlight

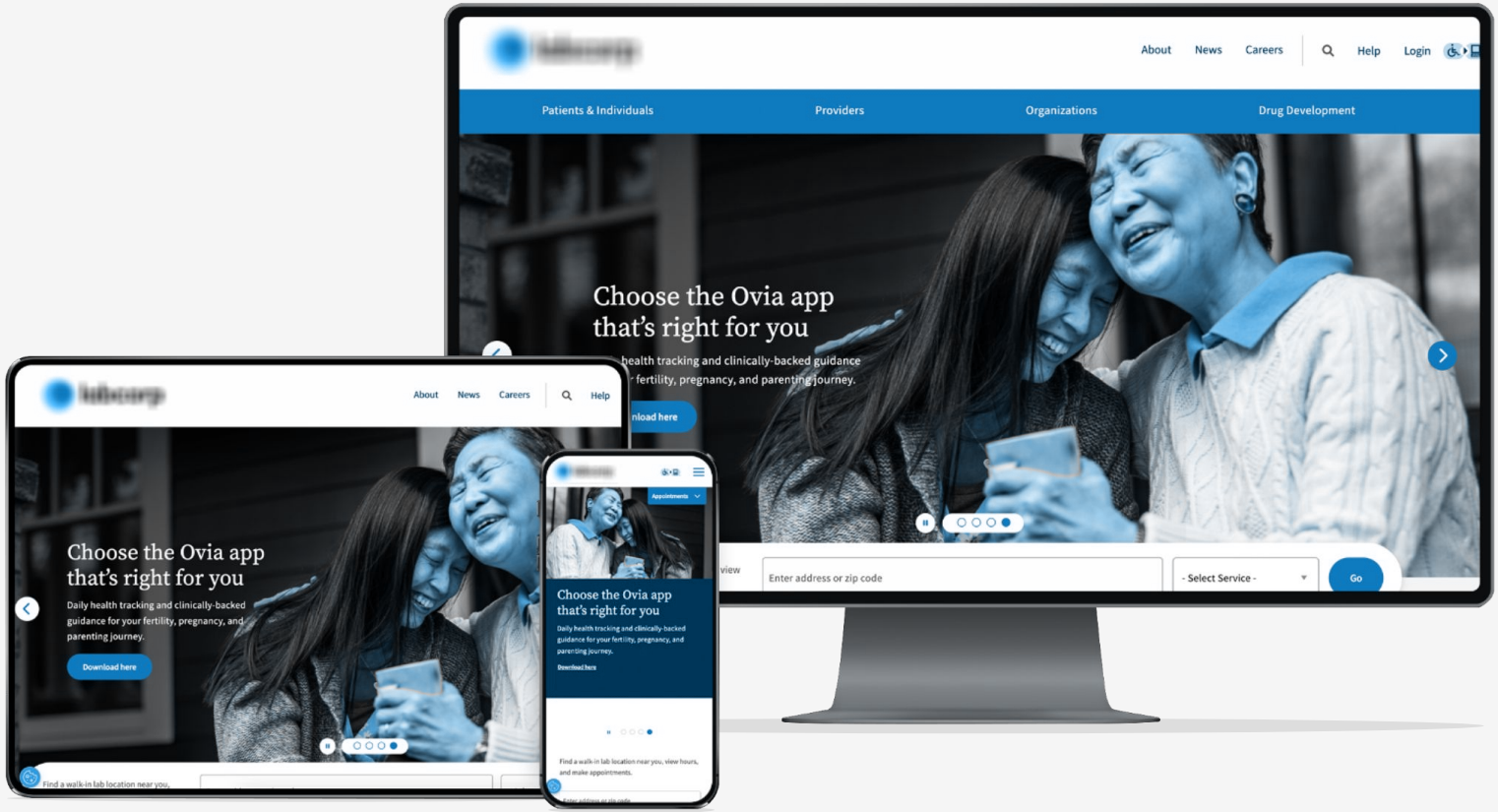
- Built the software applications mainly using Java and Spring, ensuring coding standards and best practices are followed.
- Integrated a CI/CD pipeline to derive meaningful and actionable insights from clinical trial data.
- Leveraged MySQL to store and access clinical data quickly as well as to boost the security of the application.

Solution Highlights

- Clinicians can instantly and seamlessly access clinical trial data in real-time with data visualizations and graphs.
- Successful drug trials can be seamlessly moved on to next stage of the trial.
- Automated processes and data driven insights decreased time typically spent on manual processing ensuring quicker time to market.

Tech Stack

MySQL · spring · HIBERNATE · spring boot · aws · SQL Server 2008 · Core Java · Windows Server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A Leading Global Professional Services Firm

Automated code deployment for SaaS services using CI/CD pipelines.

CI/CD Pipelines | DevOps | Cloud Infrastructure | Scalability

Outcomes

Automated Code Deployment

- Streamlined the deployment process, reducing manual effort and increasing efficiency.

Improved Code Quality

- Enhanced code quality by providing continuous feedback and identifying issues early in the development process.

Enhanced Monitoring

- Enabled real-time monitoring and analysis of ECS cluster logs, ensuring better performance and reliability.

Solutioning

Challenges

- Managing and automating complex deployment processes, leading to inefficiencies and manual errors.
- Ensuring consistent high performance while managing resources and handling increased load.
- Integrating new applications and services with existing systems, with possible compatibility and performance challenges.

Technical Spotlight

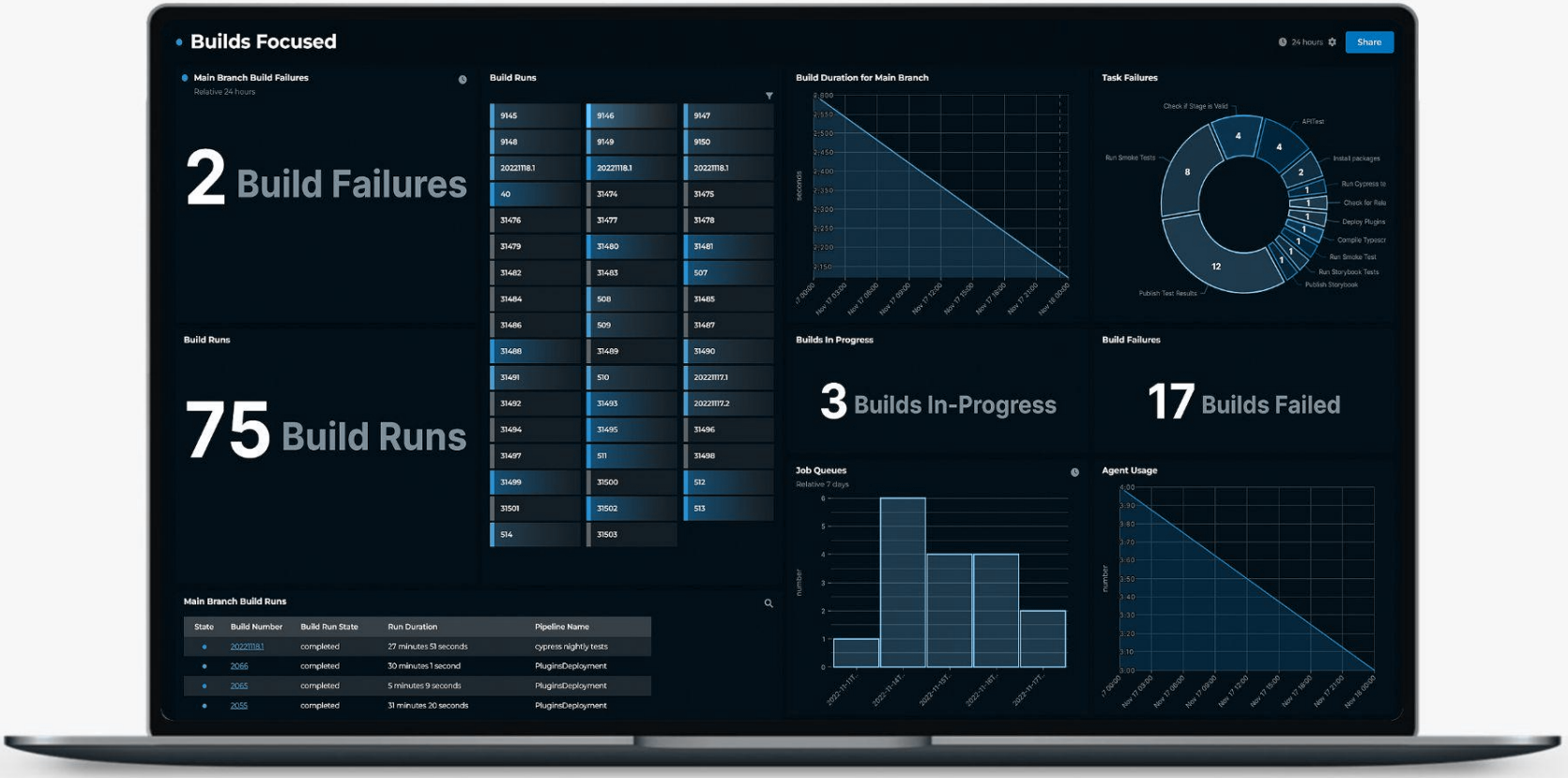
- Implemented CI/CD pipelines using CodeBuild and CodePipeline to automate processes.
- Implemented efficient monitoring and alerting by leveraging Grafana and Prometheus.
- Leveraged AWS services for seamless integration with the existing infrastructure.

Solution Highlights

- Reduced manual errors and accelerated software release cycles, improving overall code deployment efficiency.
- Ensured that performance issues are quickly identified and addressed, maintaining high application reliability.
- Facilitated smooth integration with current systems, enhancing overall system compatibility and performance.

Tech Stack

ORACLE SaaS | aws | AWS CodeBuild | CodePipeline | sonarqube | Grafana | Prometheus | CI CD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The Digital Platform of a Major Financial Institution in South Africa

Developed a letters of credit module for streamlined trade finance.

DevOps Practices | Distributed Ledger Technology | Automation | Cloud Scalability

Outcomes

Streamlined Trade Finance Operations

- Implemented a letters of credit module, significantly improving the efficiency and automation of trade finance processes.

Improved Transaction Transparency

- Enhanced visibility and traceability of blockchain transactions, ensuring greater transparency.

Scalable Cloud Infrastructure

- Provided a robust and scalable infrastructure, accommodating growing trade finance demands.

Solutioning

Challenges

- Achieving transparency and immutability in blockchain transactions.
- Managing and analyzing logs from many different sources and applications.
- Ensuring that the platform can scale effectively and maintain high performance under varying workloads.

Technical Spotlight

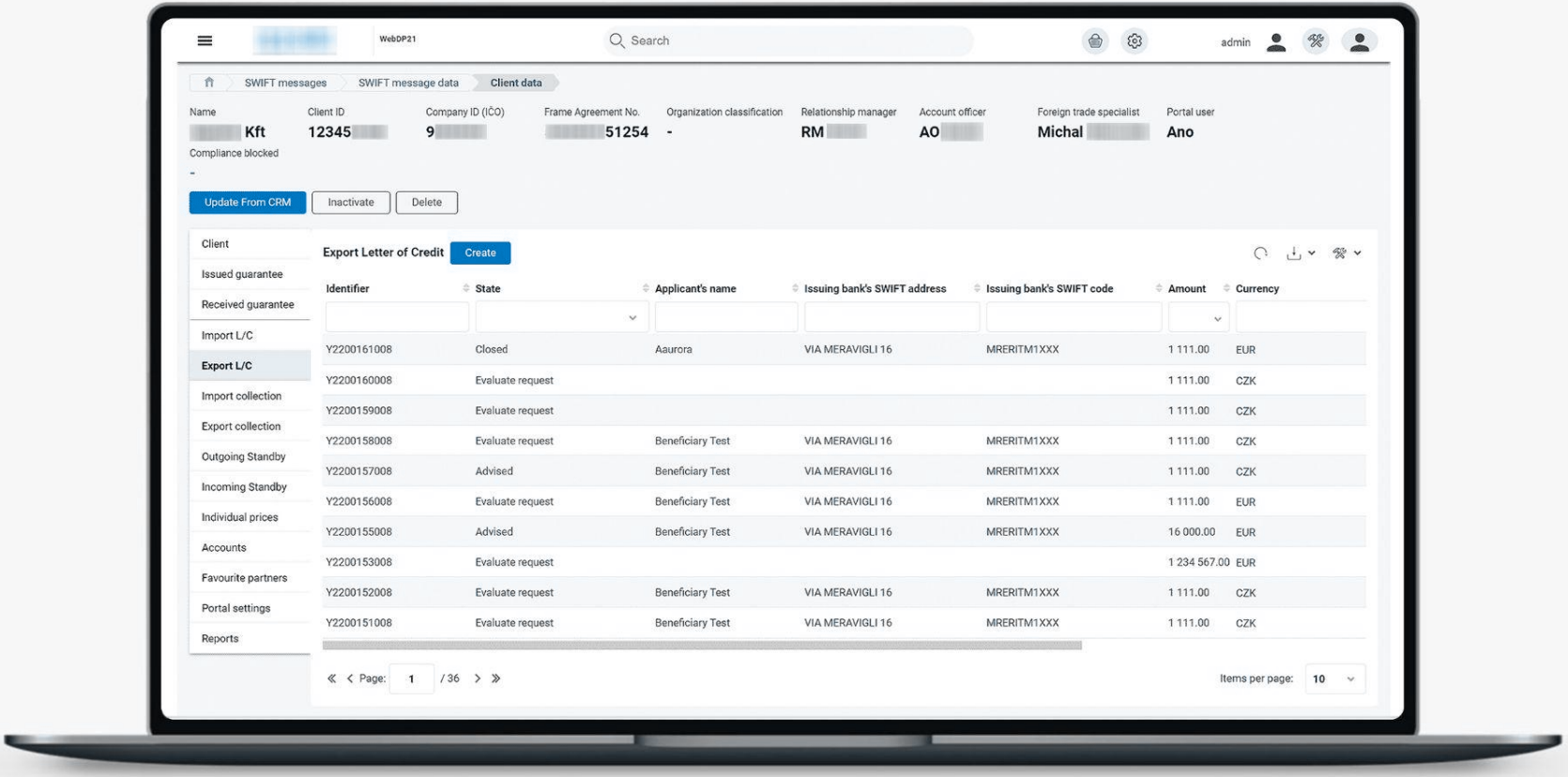
- Implemented Hyperledger Fabric and IBM Blockchain Platform to carry out blockchain transactions.
- Leveraged LogDNA and Kubernetes for efficient log monitoring, regardless of data source.
- Utilized Microsoft Azure and IBM Cloud for cloud-based infrastructure.

Solution Highlights

- Enabled secure and transparent transaction recording, ensuring every transaction is traceable and immutable.
- Provided centralized log aggregation and analysis, and managed containerized applications efficiently.
- Allowed the platform to handle increased workloads and ensure high performance without disruptions.

Tech Stack

node.js Azure HYPERLEDGER FABRIC Linux React IBM Cloud logdna kubernetes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The Organization Representing the MedTech Industry in the Asia-Pacific

Created a portal for MedTech companies to invite doctors to events, managing all logistics.

DevOps Practices | Serverless Architecture | Logistics Automation | AWS Integration

Outcomes

Improved Data Handling

- Ensured fast access and management of large datasets, enhancing performance and reliability.

Robust API Integration

- Facilitated seamless communication between different services, improving system interoperability.

Streamlined Event Management

- Efficiently managed the entire process of organizing events, from sending invitations to handling logistics, reducing overhead.

Solutioning

Challenges

- Ensuring that the platform can scale efficiently to handle varying user loads without performance degradation.
- Managing large volumes of unstructured data by building a robust data management solution.
- Efficiently tracking bugs and managing issues throughout the development cycle.

Technical Spotlight

- Utilized serverless architecture using AWS Lambda and AWS Aurora for automatic scaling.
- Implemented Amazon DynamoDB for NoSQL data storage and database management.
- Used Azure DevOps for tracking bugs and managing the development pipeline.

Solution Highlights

- Automatically scaled based on demand, allowing the platform to handle varying user loads efficiently without manual intervention.
- Provided fast performance with seamless scaling, making it easier to handle large volumes of data.
- Built a comprehensive suite for project management, making it easier to track issues and streamline the development process.

Tech Stack

node Azure CSS HTML MySQL Linux amazon DynamoDB jQuery mac OS Angular Material

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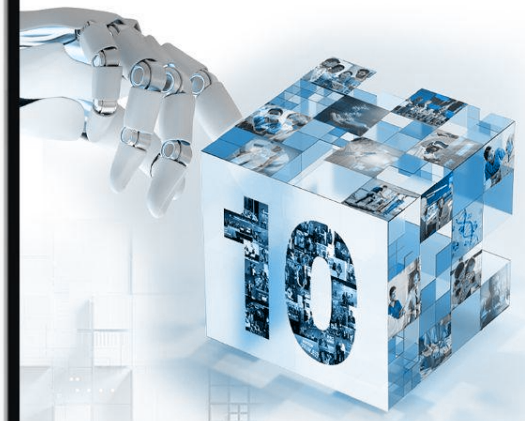

MEDTECH FORUM 2024

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ASIA PACIFIC'S LEADING MEDTECH CONFERENCE

A Prominent Financial Services Provider in India

Redeveloped the website using microservices architecture to improve performance.

Backend Development | Scalability | Database Integration | DevOps Practices

Outcomes

Enhanced Data Integrity

- Provided a robust database solution for storing and managing large datasets, ensuring consistency and data integrity across the platform.

Streamlined Deployment

- Improved release cycles, reducing downtime and deployment errors.

Strengthened API Security

- Reduced vulnerabilities, ensuring secure interactions between users and the platform.

Solutioning

Challenges

- Managing communication between multiple microservices without latency and synchronization issues.
- Ensuring consistent data across various microservices, especially in a distributed architecture.
- Ensuring efficient data flow and handling asynchronous operations effectively.

Technical Spotlight

- Implemented message queues with Node.js to handle asynchronous communication efficiently.
- Used MySQL's support for ACID transactions and distributed database techniques for data consistency.
- Leveraged Angular's services and observables to enable seamless communication with the backend.

Solution Highlights

- Reduced latency and ensured reliable communication between services, thereby improving overall system performance.
- Prevented data loss and ensured integrity even in complex distributed environments.
- Streamlined asynchronous communication, ensuring a smooth user experience and responsive interface.

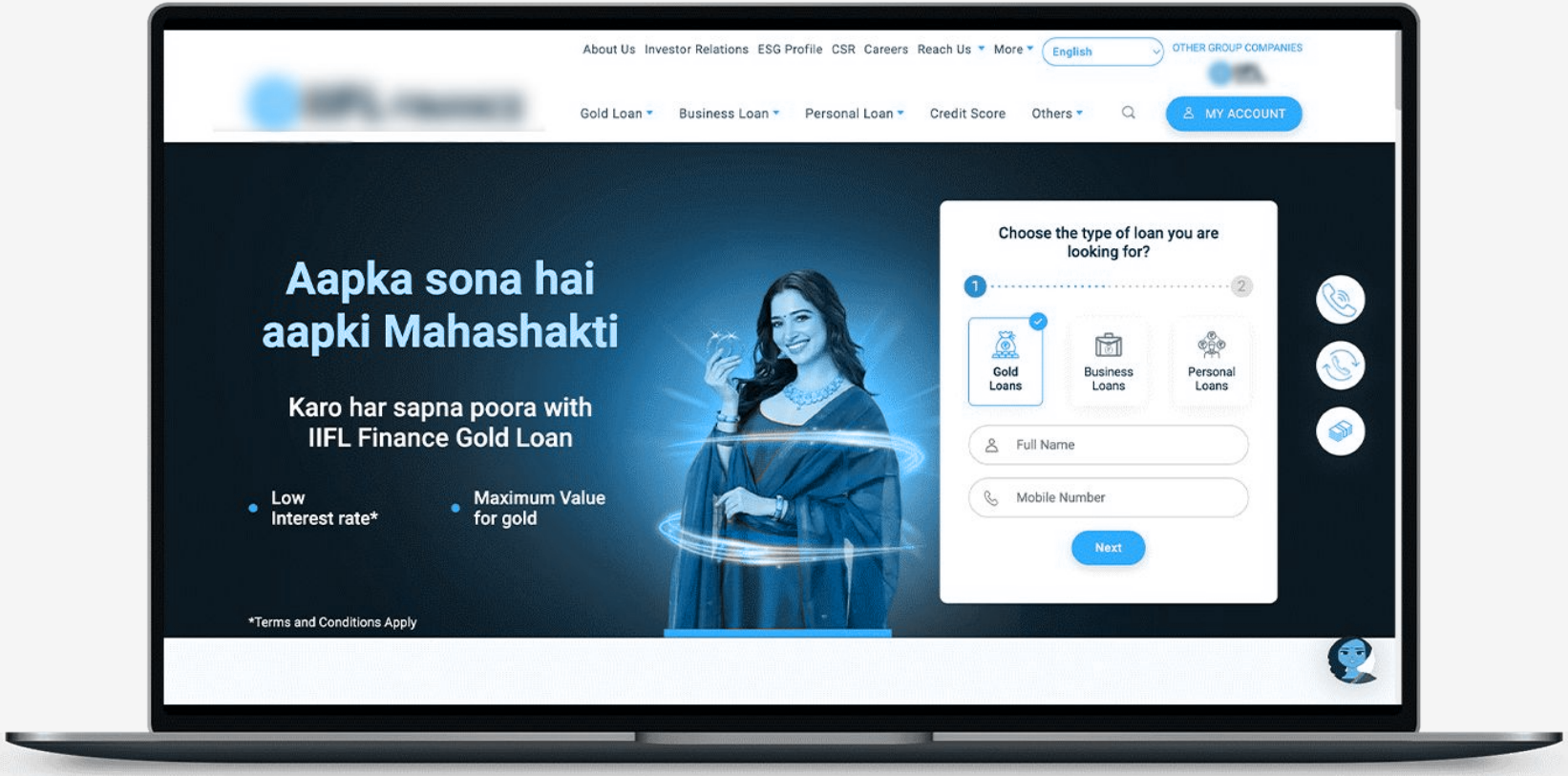
Tech Stack

node JS

MySQL

ANGULAR 4.0

Windows Server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A Major Malaysian Banking and Financial Services Institution

Designed mobile and web platforms to automate workflows and manage production support.

Data Management | Modularity | Cross-Platform Compatibility | DevOps Practices

Outcomes

Improved System Performance

- Optimized performance, enabling faster response times and better resource utilization.

Robust Data Management

- Enhanced data storage solutions, ensuring efficient data retrieval and management.

Streamlined Reporting

- Reduced manual effort and improved accuracy in monthly, quarterly, and yearly reporting.

Solutioning

Challenges

- As user demand grows, ensuring that the application can scale effectively becomes a significant challenge.
- Testing the application across various environments can lead to inconsistencies.
- As the application grows, complex queries can lead to performance bottlenecks, affecting user experience.

Technical Spotlight

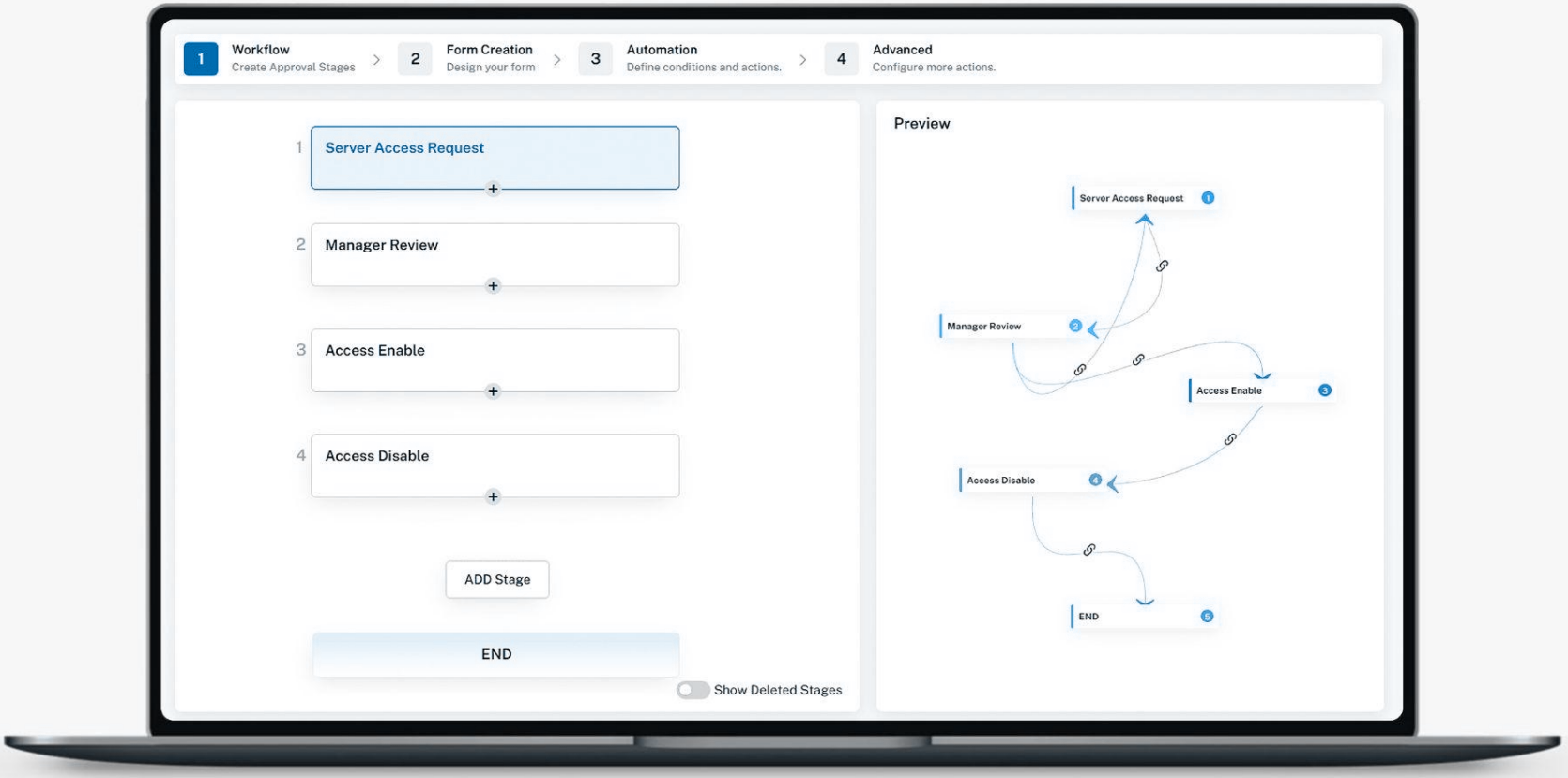
- Utilized microservices architecture alongside containerization, using Docker.
- Used Docker to create consistent testing environments that mirror production settings for reliable testing.
- Employed indexing, query optimization, and proper database schema design in Oracle, MongoDB, and MySQL to enhance performance.

Solution Highlights

- Enabled the application to dynamically allocate resources as needed, ensuring optimal performance during peak usage periods.
- Reduced the chances of encountering environment-specific bugs in production.
- Reduced query execution times, leading to a faster, more responsive application.

Tech Stack

node Azure Core Java Java J2EE MySQL CSS HTML mongoDB ORACLE DATABASE 11g Thymeleaf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Design your form
3 Automation
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4 Advanced
Configure more actions.
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2 Manager Review
3 Access Enable
4 Access Disable
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END
Show Deleted Stages
Preview
Server Access Request
Manager Review
Access Enable
Access Disable
END

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