SYSTEM
POPULUS

Populus
Modules

Integration System
- Identity Management
- Mobile App
- Finance
- Reporting
- Analytics
- Payment Gateway
- Email Exchange
- Self Service Portal

Registration
- External users
- On-boarding
- Users Profile management
- De-registration
- Agent
- Branch officers

User Services
- Dashboard
- Search
- Profiles
- Support
- Task/Case
- Ops Reports
- User Management
- Notifications

Agent

Internal Users

Financial/Accounting
- GL Financials
- Transactions
- Billing
- Statement
- Revenue Accounting

Collection
- Collection
- Arrears
- Exemption
- Monitoring
- Refund/Payment
- Adjustment

Base
- Monitoring
- Scheduler
- Workflow
- Audit Trail
- System Configuration
- Security
- Document Management

Enforcement
- Detection/Discovery
- Investigation/Inspection
- Prosecution
- Debt Recovery
- Fraud/Risk
- Penalty/Compound

Benefit/Withdrawal
- Benefit Calculation Management
- Scheme Management
- Benefit claim
- Loan
- Withdrawal
- Interest/Dividen

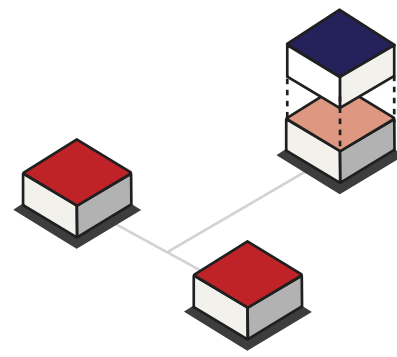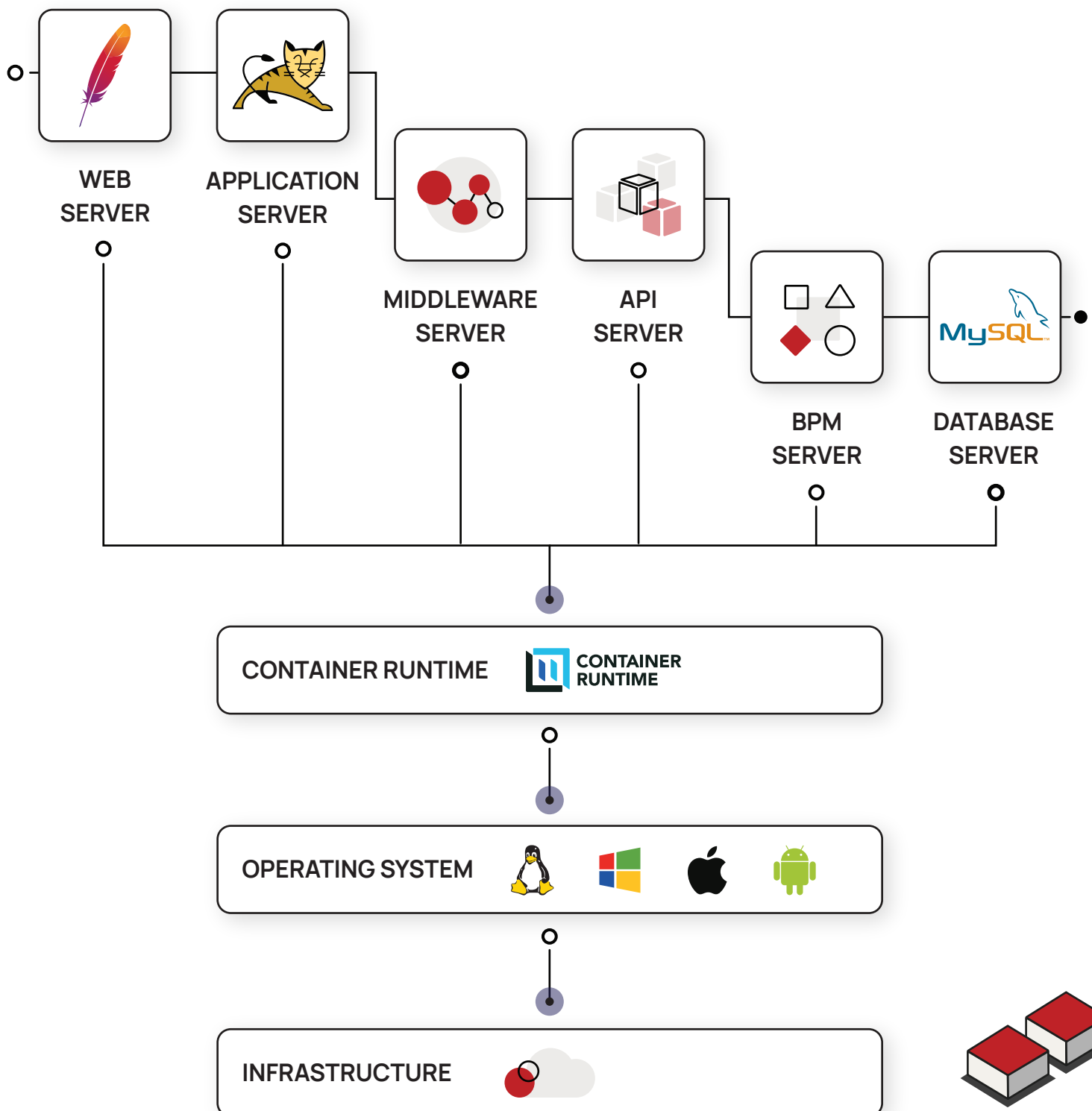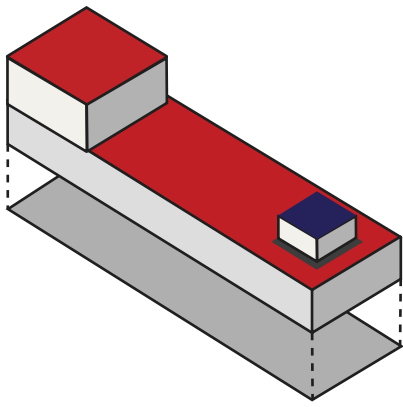# System
Architecture

Our solution is a Web Architecture Framework (WAF) Off the Shelf application that is developed based on containerization architecture.

It is configured based on collection of containers with segregation by functions and operated by the following technology stacks:

WEB SERVER

APPLICATION SERVER

MIDDLEWARE SERVER

API SERVER

BPM SERVER

DATABASE SERVER

CONTAINER RUNTIME

OPERATING SYSTEM

INFRASTRUCTURE

Application
Architecture

There are 2 types of model architecture provided :

Type 1

Liferay service builder

> Service Builder is a model-driven code generation tool built by Liferay that allows developers to define custom object models.

> Can be configured to use separated database.

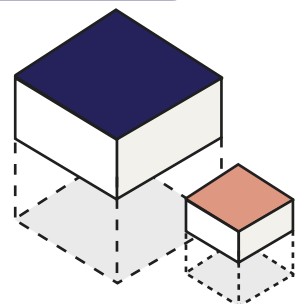> Platform dependency, unique to Liferay and run within Liferay.

Type 2

REST API

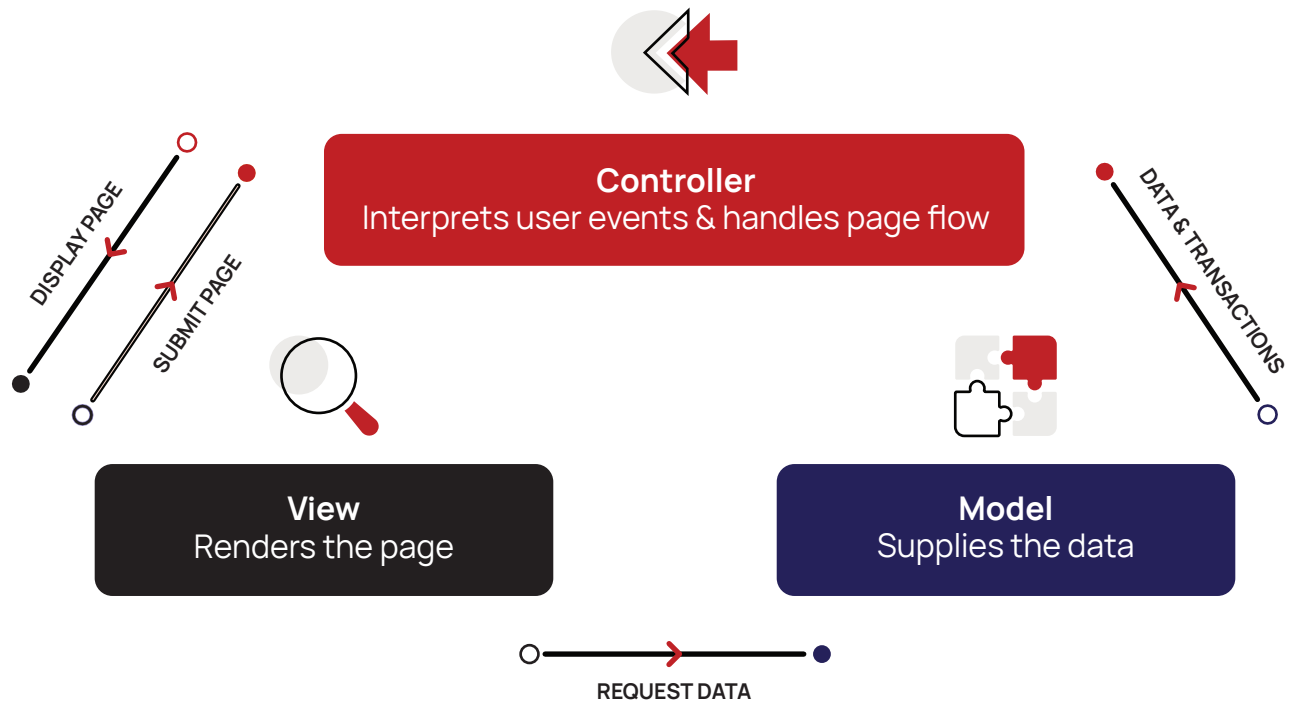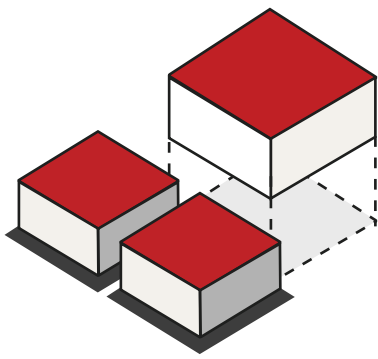> Utilizing Apache Kafka Integration services to compose microservices and provides the REST API endpoints.

> Implements token-based authentication.

> Developed as Spring Boot microservices-based applications run on containers.

Controller
Interprets user events & handles page flow

DISPLAY PAGE

SUBMIT PAGE

DATA & TRANSACTIONS

View
Renders the page

Model
Supplies the data

REQUEST DATA

MVC Pattern	Technology
Model	• Liferay Service Builder • REST API
View	• JSP • Jquery • Angular
Controller	• Liferay Framework
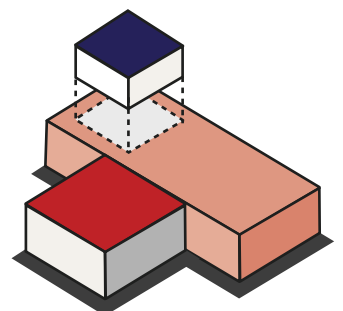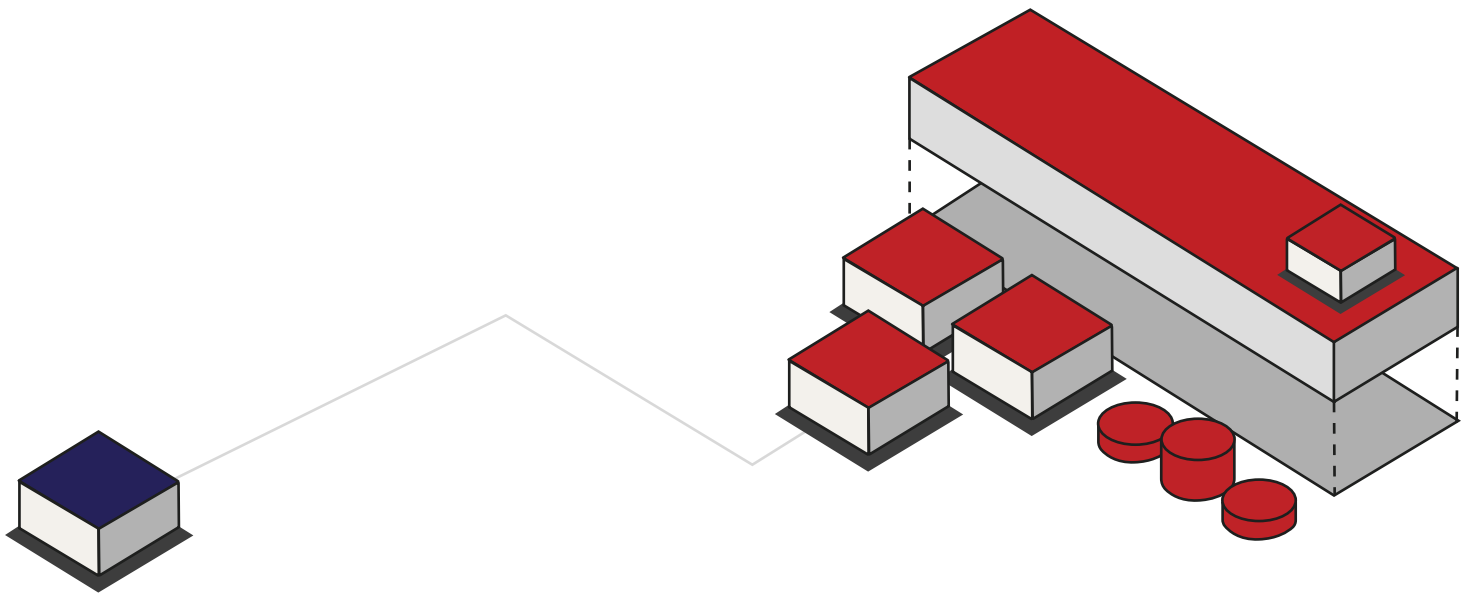
Microservices
Architecture

Microservices Architecture is an architectural style that structures an application as a collection of services that are

Highly maintainable and testable

Loosely coupled

Independently deployable

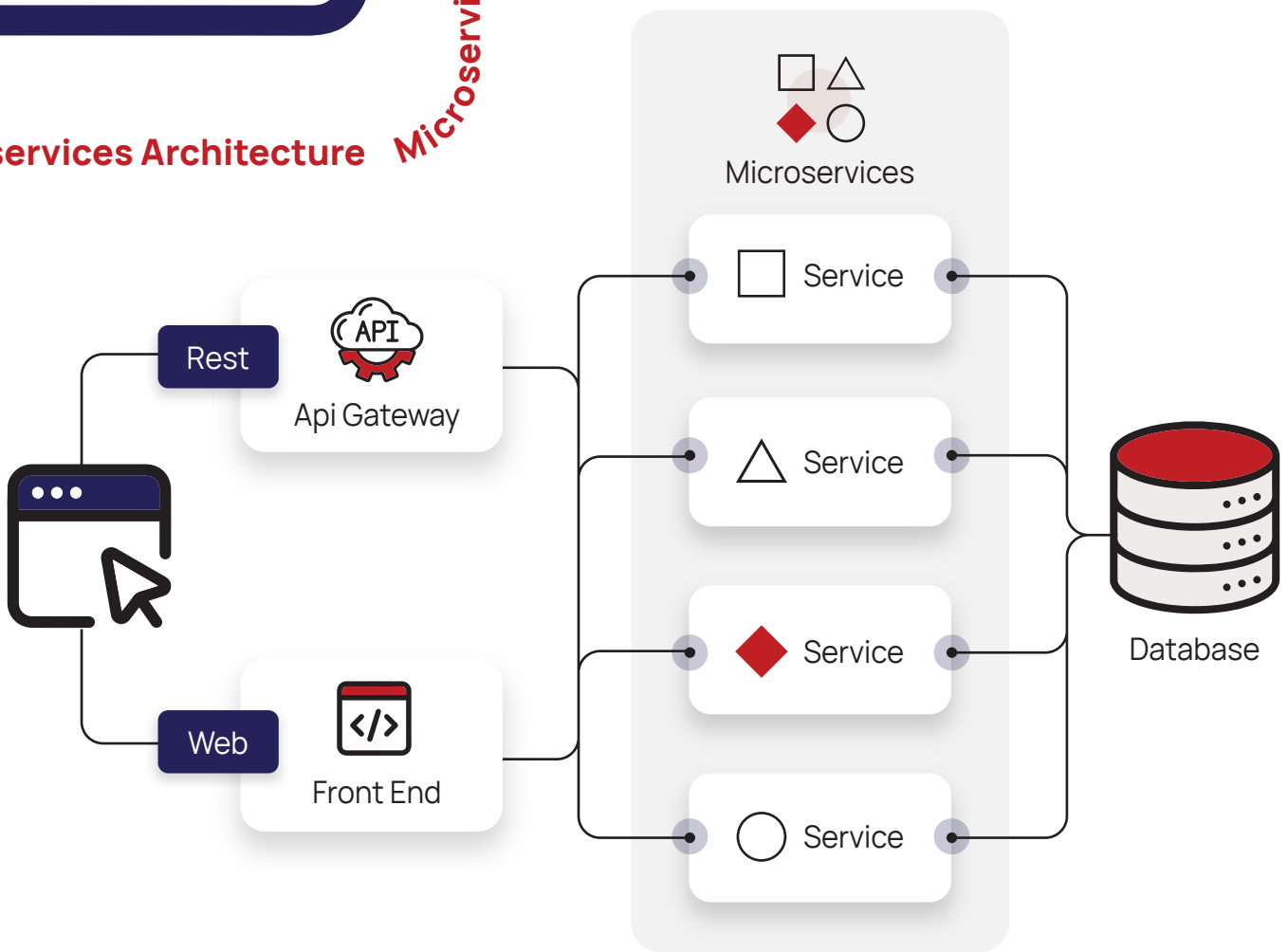Owned by a small team

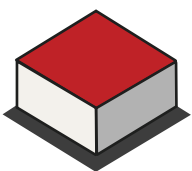Isolate failures
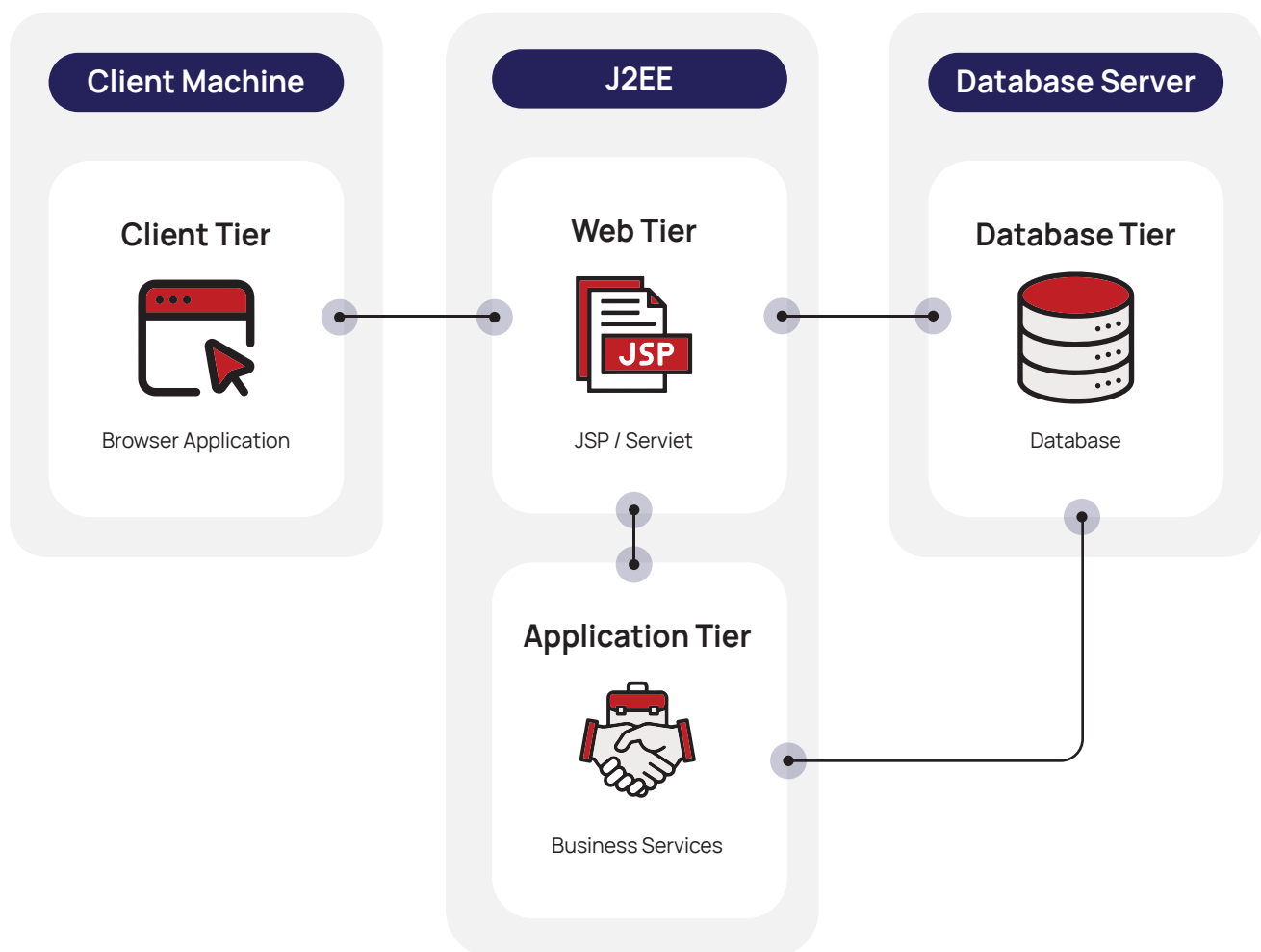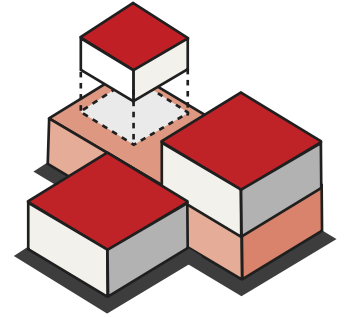
Organized around business capabilities

Scalability will be independent to each microservices

The microservice architecture enables the rapid, frequent and reliable delivery of large, complex applications. It also enables an organization to evolve its technology stack.

Microservices Architecture Microservices Architecture Microservices Architecture
Microservices Architecture
Microservices

Microservices

Microservices Architecture
Rest
API
Api Gateway

Microservices Architecture Microservices Architecture Microservices Architecture

Microservices

□ △
◆ ○
Microservices

□ Service

△ Service

◆ Service

Web
Front End
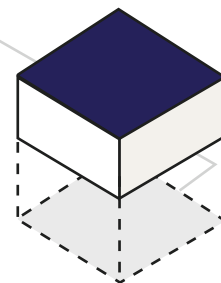○ Service

Database

Microservices Architecture Microservices Architecture Microservices Architecture

Overview of Software Architecture

Client Machine

Client Tier

Browser Application

J2EE

Web Tier

JSP / Serviet

Application Tier

Business Services

Database Server

Database Tier

Database

Future
Product Roadmap
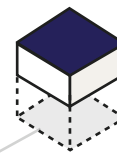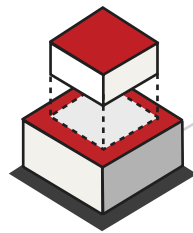
Module	2024	2025	2026
Support of new Container Platform	Support VMWare Tanzu Container Platform.		Support AWS and Azure Container Platform.
Big Data Integration	Allow direct access and replication of historical data for big data analysis.		
eKYC		For real-time online identity verification to ensure fast and easy new customers onboarding process.	
AI / ML Integration		AI / ML based Optical character recognition to digitise form base document into NCS.	
Low Code Workflow Engine			Major upgrade on the workflow module with low code capability which user can easily manage the required workflows.
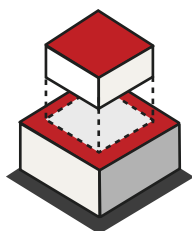
Sample of
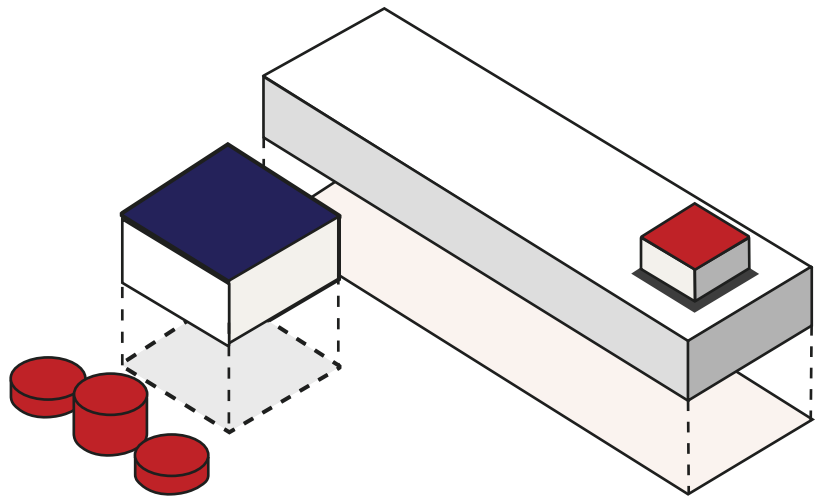# On-prem Production Environment
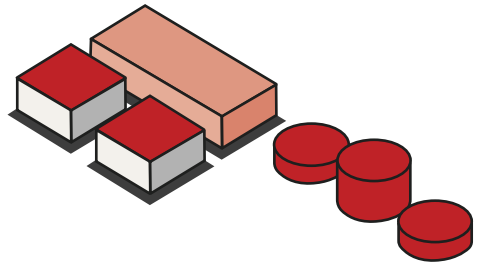
Product Environment

DMZ

External Firewall

Internal Firewall

External User

Internal User

Web Segment

RHEL
JBoss Web Server

Active

Web Server Node 1
(External)

RHEL
JBoss Web Server

Active

Web Server Node 2
(External)

Load Balancer

HPPTS 443

Load Balancer

Application Segment

RHEL
JBoss EAP

Active

Application Server
Node 1

RHEL
JBoss EAP

Active

Application Server
Node 2

RHEL
JBoss EAP

Active

Application Server
Node 3

RHEL
JBoss EAP

Active

Application Server
Node 4

Report Segment

RHEL
SAP BOE

Active

Report Server
Node 1

RHEL
SAP BOE

Active

Report Server
Node 2

Product Environment

Internal Network

ESB Segment

VIP

RHEL
JBoss Fuse

Active

ESB Server
Node 1

RHEL
JBoss Fuse

Active

ESB Server
Node 2

BPM Segment

VIP

RHEL
JBoss BPM

Active

BPM Server
Node 1

RHEL
JBoss BPM

Active

BPM Server
Node 2

Database Segment

VIP

RHEL
IBM DB2

Active

Database Server
Node 1

RHEL
IBM DB2

Stand-by

Database Server
Node 2

Web Segment

RHEL
JBoss Web Server

Active

Web Server
Node 1 (Internal)

RHEL
JBoss Web Server

Active

Web Server
Node 2 (Internal)

ETL Segment

RHEL
IBM DataStage &
QualityStage

Active

ETL Server
Node 1

HPPTS
443

F5 Load
Balancer
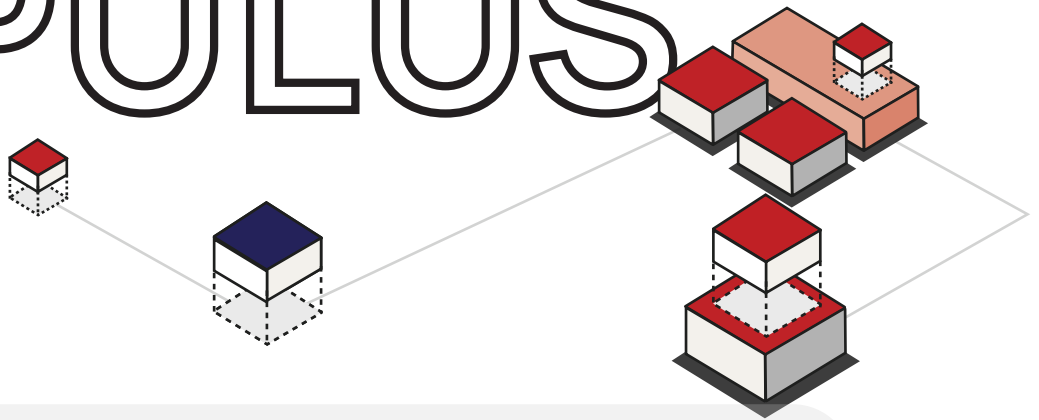
Internal
User

SYSTEM
POPULUS

CONTACT US

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