

### INSUR

Insurance Management System





#### **Executive Summary**

Production system for policy lifecycle, claims automation, customer self-service and operational analytics.

 All features below are implemented, tested and in active use by project stakeholders.



### **Business Impact**

- ➤ 80% reduction in manual processing time via templated forms and automated validation.
- Measured decrease in average claim cycle time through automated routing and approvals.
- Error reduction from server-side validation and duplicate detection.
- Real-time operational KPIs available to underwriting and ops teams.



- Policy Management (create/amend/renew/cancel, versioning, audit).
- Claims Processing (online intake, upload, validation, routing).
- Customer Portal (policy view, claims, payments).
- Analytics & Reporting (dashboards, exports, APIs).
- Admin/Broker/User dashboards and operational tooling.



### Policy Management - Core Capabilities

- ➤ Template-driven policy creation with variable substitution.
- ➤ Live premium calculation and endorsement handling.
- ➤ Policy versioning and immutable audit metadata.
- ➤ Automated renewal notifications and renewal status tracking.



# Policy Management - Rules & Documents

- Underwriting rule engine enforcing eligibility and premium rules.
- Document generation (policy PDFs) and secure document storage.
- Policy change logging and viewable prior versions for compliance.



# Claims Processing - Core Capabilities

- Guided online claim submission with multi-file uploads and metadata capture.
- Server-side validation and policy-coverage checks at intake.
- Duplicate detection and basic heuristic fraud flags.
- Claim status lifecycle with timestamps and communication history.



### Claims Processing - Workflow & Automation

- > Rule-based routing to adjusters and SLA-aware prioritization.
- Notification templates for acknowledgements and status updates.
- Claim assignment, reassignment and escalation flows implemented.



# Customer Portal - Implemented Features

- Secure login & profile management.
- Policy list, downloadable policy documents and coverage summaries.
- Claim submission, status tracking, and document upload.
- Transaction history and basic support/contact features.



# Analytics & Reporting - Implemented Capabilities

- Prebuilt dashboards: revenue trends, policy distribution, claim KPIs.
- Filters by product, region, broker and date; CSV/PDF export.
- Scheduled report generation and emailed reports.
- Aggregation APIs for BI tools.

# Dashboards & User Personas

> Admin Dashboard: system metrics, user & policy management, oversight.

> Broker Dashboard: client portfolios, quick policy creation, commission views.

User Dashboard: personal policies, claims, payments.

➤ Role-gated UI components & contextual quick actions implemented.



# Security & Privacy Controls

- > TLS for transport and encryption for sensitive fields at rest.
- ➤ Immutable audit logs for policy/claim actions with user/timestamp.
- > PII masking in logs and GDPR-ready export/delete flows implemented.
- > Validated file uploads and secure object store access controls.

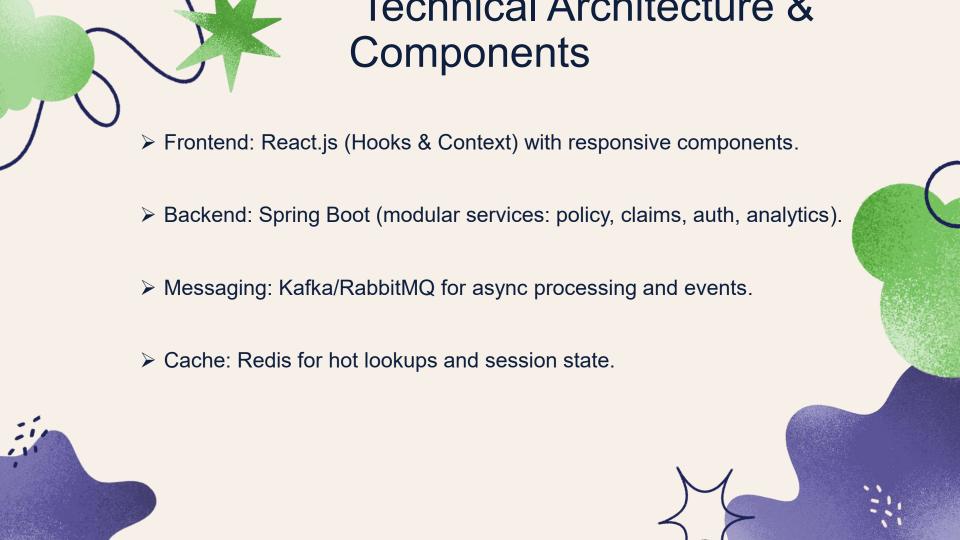


- > JWT based authentication with refresh tokens and revocation support.
- Role-Based Access Control (Admin / Broker / User) enforced at API and UI layers.
- ➤ Middleware for permission checks and scoped access per broker/customer.











### THANK YOU !!!



