

PHASE 1 — PLATFORM FOUNDATION & CORE CONTRACT FLOWS

Goal: Make the platform usable end-to-end for contracts & workflows

1 Application Foundation & Access Control

Objectives

- Establish secure multi-tenant frontend
- Enable role-based navigation & permissions

Pages

- Login
- SSO Callback
- Unauthorized / Session Expired
- Base App Layout

Core Components

- `AuthProvider`
- `RoleGuard`
- `TenantContext`
- `Sidebar, Header, Breadcrumbs`

API Endpoints

- POST /auth/login
- POST /auth/refresh
- GET /auth/me
- GET /tenants

State Management

- Auth state (token, user, roles)
- Active tenant
- Permission matrix

Edge Cases

- Token expiry mid-action
 - Tenant switch resets scoped data
 - Partial permission access
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2 Dashboard & Administrative Controls

Pages

- Dashboard
- Users
- Roles
- Audit (basic)

Dashboard Sections

- KPI tiles

- Pending approvals
- Recent contracts
- Upcoming renewals

Components

- MetricCard
- DataTable
- StatusBadge
- AuditTimeline

Endpoints

- GET /dashboard/metrics
- GET /users
- POST /users
- PUT /users/{id}
- GET /roles
- GET /audit/users/{id}

Non-Functional

- Table pagination & virtualization
- Optimistic UI for updates

3 Contract Repository & Lifecycle

Pages

- Contracts List
- Create Contract
- Contract Details

Contract Creation Flow

1. Intake form
2. Template selection
3. Clause inclusion
4. Document upload
5. Draft autosave

Components

- `ContractTable`
- `ContractForm`
- `TemplatePicker`
- `ClauseLibrary`
- `FileUploader`

Endpoints

- `GET /contracts`
- `POST /contracts`
- `GET /templates`
- `GET /clauses`

- `POST /documents/upload`

Edge Cases

- Version conflicts
 - Missing mandatory clauses
 - Upload failure recovery
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4 Approval Workflow & Notifications

Pages

- Contract Approval Panel
- Notifications Center

Features

- Multi-level approval visualization
- Comment threads
- Audit trail
- WebSocket-based status updates

Endpoints

- `POST /approvals/{id}/approve`
 - `POST /approvals/{id}/reject`
 - `GET /audit/contracts/{id}`
 - `GET /notifications`
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PHASE 1 OUTPUT

- ✓ Secure platform
 - ✓ Contracts can be created, reviewed & approved
 - ✓ Admin & governance UI functional
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PHASE 2 — AI CAPABILITIES & INTELLIGENCE

 **Week 2 (Days 6–10)**

 *Goal: Introduce explainable AI into contract workflows*

1 AI Contract Generation

Pages

- AI Contract Generator
- Generation Status

Generation Steps

1. Template selection
2. Variable input
3. Prompt preview
4. Async generation
5. Result preview

Components

- `PromptPreview`
- `GenerationProgress`

- GeneratedDocumentViewer

Endpoints

- POST /ai/generate
 - GET /ai/jobs/{id}
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2 AI Review & Clause Provenance

Pages

- AI Review Page

Features

- Clause origin tracking
- Confidence scoring
- Inline editing
- Replace / accept logic
- Approval submission

Endpoints

- GET /ai/contracts/{id}
 - PUT /ai/clauses/{id}
 - POST /ai/contracts/{id}/approve
-

3 AI Extraction & Analysis

Pages

- Contract Insights
- Obligations Panel
- Summary Panel

Extracted Data

- Parties
- Dates
- Values
- Clause categories
- Obligations

Components

- `MetadataCard`
- `HighlightViewer`
- `ObligationTable`
- `SummarySection`

Endpoints

- `GET /ai/extract/{contractId}`
 - `GET /ai/clauses/{contractId}`
 - `GET /ai/obligations/{contractId}`
 - `GET /ai/summary/{contractId}`
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4 AI Governance & Controls

Pages

- Admin → AI Settings

Features

- Per-tenant AI toggle
- Model selection
- Accuracy metrics
- Audit visibility

Endpoints

- `GET /admin/ai/settings`
 - `PUT /admin/ai/settings`
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✓ PHASE 2 OUTPUT

- ✓ Human-in-loop AI contracts
 - ✓ Explainable extraction & summaries
 - ✓ Enterprise AI governance
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● PHASE 3 — EXECUTION, SECURITY & RELEASE

17 Week 3 (Days 11–15)

⌚ Goal: Production-grade execution & readiness

1 E-Signature & Execution

Pages

- Send for Signature
- Signing Page
- Executed Contract Viewer

Features

- Signature anchors
- Sequential / parallel signing
- Execution proof
- Tamper indicators

Endpoints

- POST `/esign/send`
 - POST `/esign/sign`
 - GET `/esign/status/{id}`
 - GET `/esign/executed/{id}`
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2 Obligations & Renewals

Pages

- Obligations Dashboard

Features

- Task creation
- Due dates & owners

- Renewal alerts
- Status tracking

Endpoints

- GET /obligations
 - POST /obligations
-

3 Security & Audit

Pages

- Security Settings
- Audit Logs

Features

- MFA setup
- Session tracking
- Permission denial UX
- Full audit search

Endpoints

- POST /auth/mfa
 - GET /sessions
 - GET /audit/logs
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4 Performance, QA & Release

Non-Functional Enhancements

- Route-level lazy loading
- Table virtualization
- Error boundaries
- Retry logic
- Observability UI hooks

Release Tasks

- UAT bug fixes
- Cross-browser testing
- Production build verification
- Frontend documentation