

# UPRISE RUNBOOK — Developer & Agent Operations Manual

**Repository:** music-community-platform

**Last Updated:** November 12, 2025 (America/Chicago)

**Applies To:** All UPRISE Agents (DeepAgent, Claude Code, Codex CLI, Cursor, etc.)



## Core Directives

File	Purpose	Status
<a href="#">STRATEGY_CRITICAL_INFRA_NOTE.md</a> (./STRATEGY_CRITICAL_INFRA_NOTE.md)	Defines “DeepAgent = Foundry only” rule; production targets (Vercel, Fly, AWS, Neon).	<span style="color: red;">●</span> Critical
<a href="#">PHASE1_COMPLETION_REPORT.md</a> (./PHASE1_COMPLETION_REPORT.md)	Certifies monorepo foundation; establishes readiness for Phase 2.	<span style="color: green;">✓</span> Complete

All agents MUST read the two files above before running any task.



## Development Environment

See [ENVIRONMENTS.md](#) (./ENVIRONMENTS.md) for full setup.

### Summary:

- **Web / API / Socket / Workers:** WSL 2 (Ubuntu 22.04+ recommended)
- **Mobile (RN 0.66.x):** Windows non-admin PowerShell (Hermes, Gradle 7.0.2, JDK 11)
- **Node:** v22.x (fnm or nvm)
- **Package Manager:** pnpm 9.x (corepack)
- **Database:** Postgres with **PostGIS** (dev: DeepAgent container; prod: Neon or AWS RDS)
- **Optional:** Docker for local workers/DB



## Monorepo Structure

See [PROJECT\\_STRUCTURE.md](#) (./PROJECT\_STRUCTURE.md) for details and conventions.

```

apps/
  web/      ↳ Next.js 15 (Vercel)
  api/    ↳ NestJS (Fly.io / App Runner)
  socket/   ↳ Socket.IO (Fly.io / App Runner)
  workers/
    transcoder/ ↳ FFmpeg Node worker (AWS Fargate / Fly.io)
packages/
  ui/        ↳ Shared components
  types/     ↳ Zod schemas ↳ OpenAPI
  sdk/       ↳ Generated client for web/api
infra/
  prisma/   ↳ Prisma schema + PostGIS migrations + seeds

```

### **Strict Web-Tier Contract**

- No DB access, no secrets, no server actions that mutate state in `apps/web`.
- All mutations go through `apps/api`.
- Realtime is subscribe-only via `apps/socket`.



## Deployment Flow

### **Default pipeline:**

DeepAgent (dev/CI) → GitHub PR → External Deploy (Vercel / Fly / AWS) → Production (Neon Postgres)

Each PR MUST include:

```

Deployment Target: [Vercel|Fly|AppRunner|Fargate|Neon]
Phase: [1|2|3]
Specs: [IDs of affected specs, e.g., 04 Community, 07 Discovery]

```

CI runs on PR:

- Lint / Typecheck / Build
- Web-tier contract guard (fail on boundary violations)
- Unit & integration tests
- Prisma PostGIS migrations on ephemeral DB
- Socket realtime smoke test

## Testing Matrix

Test Type	Tool	Location	Schedule
Unit Tests	Jest/Vitest	apps/api, apps/web, apps/socket	On commit
E2E (web)	Playwright	apps/web	Nightly + on release
Realtime	Vitest + Socket test client	apps/socket	On PR
Migrations	Prisma Migrate	infra/prisma	On deploy
Contract Guard	ESLint + custom CI rule	apps/web	On PR



## Web-Tier Contract Guard (T5 Implementation)

### Purpose

The Web-Tier Contract Guard enforces strict architectural boundaries to prevent direct database access, server-side imports, and secret leakage in the web tier (`apps/web`). This is a critical infrastructure policy that ensures the UPRISE platform maintains proper separation of concerns.

### What It Does

The guard scans all TypeScript/JavaScript files in `apps/web` and detects:

#### PROHIBITED Patterns:

- Direct database imports (`@prisma/client`, `pg`, `mongodb`, `mongoose`, etc.)
- Direct imports from `apps/api/src` or `apps/socket/src`
- Server-side environment variables (`DATABASE_URL`, `JWT_SECRET`, `AWS_SECRET_ACCESS_KEY`, etc.)
- Non-`NEXT_PUBLIC_` environment variables in client components
- AWS SDK imports (`aws-sdk`, `@aws-sdk/*`)
- File system access (`fs` module)
- Server-only Node.js modules (`child_process`, etc.)

#### ALLOWED Patterns:

- API client (`import { api } from "@lib/api"`)
- Socket.IO client (`import { io } from "socket.io-client"`)
- Shared packages (`@uprise/ui`, `@uprise/types`, etc.)
- `NEXT_PUBLIC_` environment variables
- Client-safe utilities and components

## Running Locally

```
# Run the guard
pnpm run infra-policy-check

# Show help and documentation
pnpm run infra-policy-check --help

# Verbose output with file counts
pnpm run infra-policy-check --verbose
```

## CI Integration

The guard runs automatically on every PR and push to `main` or `develop` branches via GitHub Actions. If violations are detected, the build will fail and must be fixed before merging.

**Workflow file:** `.github/workflows/infra-policy-check.yml`

## Error Codes

Each violation includes a specific error code for easy identification:

Code	Description
<code>WEB_TIER_DB_001</code> - <code>WEB_TIER_DB_007</code>	Database access violations
<code>WEB_TIER_IMPORT_001</code> - <code>WEB_TIER_IMPORT_004</code>	Server-side import violations
<code>WEB_TIER_SECRET_001</code> - <code>WEB_TIER_SECRET_006</code>	Environment variable/secret violations
<code>WEB_TIER_AWS_001</code> - <code>WEB_TIER_AWS_002</code>	AWS SDK violations
<code>WEB_TIER_FS_001</code> - <code>WEB_TIER_FS_002</code>	File system access violations
<code>WEB_TIER_SERVER_001</code> - <code>WEB_TIER_SERVER_002</code>	Server-only module violations

## Example Violation Output

Web-Tier Contract Violations Detected (ERRORS):

1. apps/web/src/lib/db.ts:5:1  
Code: WEB\_TIER\_DB\_001  
Message: Direct Prisma Client `import` is prohibited `in` web tier. Use API client instead.  
Snippet: `import { PrismaClient } from '@prisma/client';`
2. apps/web/src/components/user-profile.tsx:10:15  
Code: WEB\_TIER\_SECRET\_001  
Message: DATABASE\_URL must `not` be accessed `in` web tier. This `is` a server-side secret.  
Snippet: `const db = process.env.DATABASE_URL;`

Total Errors: 2

## How to Fix Violations

### Instead of direct database access:

```
// ✗ WRONG
import { PrismaClient } from '@prisma/client';
const prisma = new PrismaClient();
const users = await prisma.user.findMany();

// ✓ CORRECT
import { api } from '@/lib/api';
const users = await api.get('/users');
```

### Instead of server-side secrets:

```
// ✗ WRONG
const secret = process.env.JWT_SECRET;

// ✓ CORRECT
const publicKey = process.env.NEXT_PUBLIC_API_KEY;
```

### Instead of direct API imports:

```
// ✗ WRONG
import { UserService } from '../../api/src/users/user.service';

// ✓ CORRECT
import { api } from '@/lib/api';
// Or use shared types from @prise/types
```

## Related Documentation

- [STRATEGY\\_CRITICAL\\_INFRA\\_NOTE.md](#) (./STRATEGY\_CRITICAL\_INFRA\_NOTE.md) - Infrastructure policy
- [PROJECT\\_STRUCTURE.md](#) (./PROJECT\_STRUCTURE.md) - Architectural boundaries
- [apps/web/WEB\\_TIER\\_BOUNDARY.md](#) (../apps/web/WEB\_TIER\_BOUNDARY.md) - Web-tier contract details

## Script Location

- **Source:** `scripts/infra-policy-check.ts`
- **Legacy (deprecated):** `scripts/infra_check_web.js`



## Documentation Index

Category	File	Description
Strategy	<a href="#">STRATEGY_CRITICAL_INFRA_NOTE.md</a> (./ <a href="#">STRATEGY_CRITICAL_INFRA_NOTE.md</a> )	Infrastructure policy
Milestones	<a href="#">PHASE1_COMPLETION_REPORT.md</a> (./ <a href="#">PHASE1_COMPLETION_REPORT.md</a> )	Phase 1 completion
Specs	<a href="#">Specifications/README.md</a> (./ <a href="#">Specifications/README.md</a> )	Module-by-module technical docs
Environments	<a href="#">ENVIRONMENTS.md</a> (./ <a href="#">ENVIRONMENTS.md</a> )	Windows/WSL setup rules
Structure	<a href="#">PROJECT_STRUCTURE.md</a> (./ <a href="#">PROJECT_STRUCTURE.md</a> )	Folder map & conventions
Changelog	<a href="#">CHANGELOG.md</a> (./ <a href="#">CHANGELOG.md</a> )	Auto-generated PR logs

## Agent Rules

1. **Follow the Critical Infra Note** — DeepAgent may run tests, not production workloads.
2. **Keep Docs Current** — Every merged PR must update `CHANGELOG.md` and, if scope touches architecture or ops, update this `RUNBOOK.md`.
3. **Annotate PRs** — Link to affected specification(s) in `/docs/Specifications`.
4. **Blockers** — Any CI error tagged `infra-policy-check` halts merge until fixed.

## Maintenance Schedule

Interval	Task	Owner
Daily	CI: lint/type/build pass	DeepAgent
Nightly	E2E (web) + socket smoke	DeepAgent
Weekly	Update CHANGELOG from merged PRs	DeepAgent
Per Phase	Publish phase completion report	PM/Lead Agent

## Quickstart Commands

```
pnpm i
pnpm -r build
pnpm -r dev
```

See ENVIRONMENTS.md for full setup and service URLs.