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Contributing to RADIANT

Thank you for your interest in contributing to RADIANT! This document provides guidelines and instructions for contributing.

Code of Conduct

Please read and follow our [Code of Conduct](#).

Getting Started

Prerequisites

- Node.js 20.0+
- pnpm 8.0+
- Docker (for local development)
- AWS CLI (for deployment)

Setup

1. Fork the repository

2. Clone your fork:

```
git clone https://github.com/YOUR_USERNAME/radiant.git  
cd radiant
```

3. Run the setup script:

```
./scripts/setup-dev.sh
```

4. Start local services:

```
docker-compose up -d
```

5. Run migrations:

```
./scripts/run-migrations.sh --seed
```

Development Workflow

Branch Naming

- `feature/` - New features
- `fix/` - Bug fixes
- `docs/` - Documentation changes
- `refactor/` - Code refactoring
- `test/` - Test additions/changes

Example: `feature/add-model-analytics`

Commit Messages

Follow [Conventional Commits](#):

```
type(scope): description
```

```
[optional body]
```

```
[optional footer]
```

Types: - `feat` - New feature - `fix` - Bug fix - `docs` - Documentation - `style` - Formatting - `refactor` - Code restructuring - `test` - Tests - `chore` - Maintenance

Example:

```
feat(billing): add volume discount calculation
```

Implements tiered volume discounts for credit purchases.
Discounts range from 5% to 20% based on purchase amount.

Closes #123

Pull Requests

1. Create a feature branch from `develop`
2. Make your changes
3. Run tests: `pnpm test`
4. Run linting: `pnpn lint`
5. Push your branch
6. Open a PR against `develop`

PR titles should follow commit message format.

Code Style

TypeScript

- Use strict TypeScript (`strict: true`)
- Prefer `interface` over `type` for objects
- Use explicit return types for functions
- Avoid `any` - use `unknown` if type is truly unknown

React/Next.js

- Use functional components with hooks
- Use '`use client`' directive only when necessary
- Prefer server components when possible
- Use Tailwind CSS for styling

Database

- Use parameterized queries (never string interpolation)
- Always use RLS with `app.current_tenant_id`
- Name migrations: `NNN_description.sql`
- Include rollback considerations in comments

Lambda Handlers

- Use the shared `handleError` utility
- Extract auth context with `extractAuthContext`
- Return proper HTTP status codes
- Log errors but don't expose internals
- Use standardized error codes from `@radiant/shared/errors`

```
import { ErrorCode, RadiantError } from '@radiant/shared';

// Throw standardized errors
throw new RadiantError(ErrorCode.RESOURCE_NOT_FOUND, 'User not found');
```

Testing

Unit Tests

```
# Run all tests
pnpm test

# Run with coverage
pnpm test:coverage

# Run specific test file
pnpm test -- services.test.ts
```

Lambda Handler Tests

Tests are located in `__tests__/` directories within each handler:

```
cd packages/infrastructure
```

```
# Run all Lambda tests
pnpm test

# Run specific handler tests
pnpm test -- admin
pnpm test -- billing
```

E2E Tests

```
cd apps/admin-dashboard
```

```
# Run Playwright tests
pnpm test:e2e

# Run with UI
pnpm test:e2e:ui
```

Swift Tests

```
cd apps/swift-deployer
```

```
# Run all Swift tests
swift test

# Run specific test class
swift test --filter LocalStorageManagerTests
```

Test Guidelines

- Test business logic, not implementation details
- Use descriptive test names
- Mock external dependencies

- Aim for >80% coverage on new code
- Use the test utilities in `@radiant/shared/testing`

Database Migrations

Creating Migrations

1. Create a new file in `packages/infrastructure/migrations/`
2. Name it with the next sequential number: `037_your_migration.sql`
3. Include:
 - Table creation with proper types
 - RLS policies
 - Indexes for common queries
 - Rollback comments

Migration Requirements

- Must be idempotent (use `IF NOT EXISTS`)
- Must include RLS policies for tenant isolation
- Must be tested locally before PR

Error Handling

Use standardized error codes from `packages/shared/src/errors/`:

```
import { ErrorCode, RadiantError, createNotFoundError } from '@radiant/shared';

// Using factory functions
throw createNotFoundError('Tenant', tenantId);

// Direct construction
throw new RadiantError(ErrorCode.VALIDATION_REQUIRED_FIELD, 'Email is required', {
  details: { field: 'email' },
});
```

See [Error Codes Reference](#) for the full list.

Documentation

- Update `README.md` for user-facing changes
- Update OpenAPI spec for API changes
- Add JSDoc comments for public functions
- Update `CHANGELOG.md`
- Update `docs/ERROR_CODES.md` for new error codes
- Update `docs/TESTING.md` for new test patterns

Releasing

Releases are managed by maintainers:

1. Merge PRs to `develop`

2. Create release PR from `develop` to `main`
3. Update `CHANGELOG.md`
4. Merge and tag release
5. CI/CD handles deployment

Questions?

- Open a [Discussion](#)
- Check existing [Issues](#)

License

By contributing, you agree that your contributions will be licensed under the MIT License.