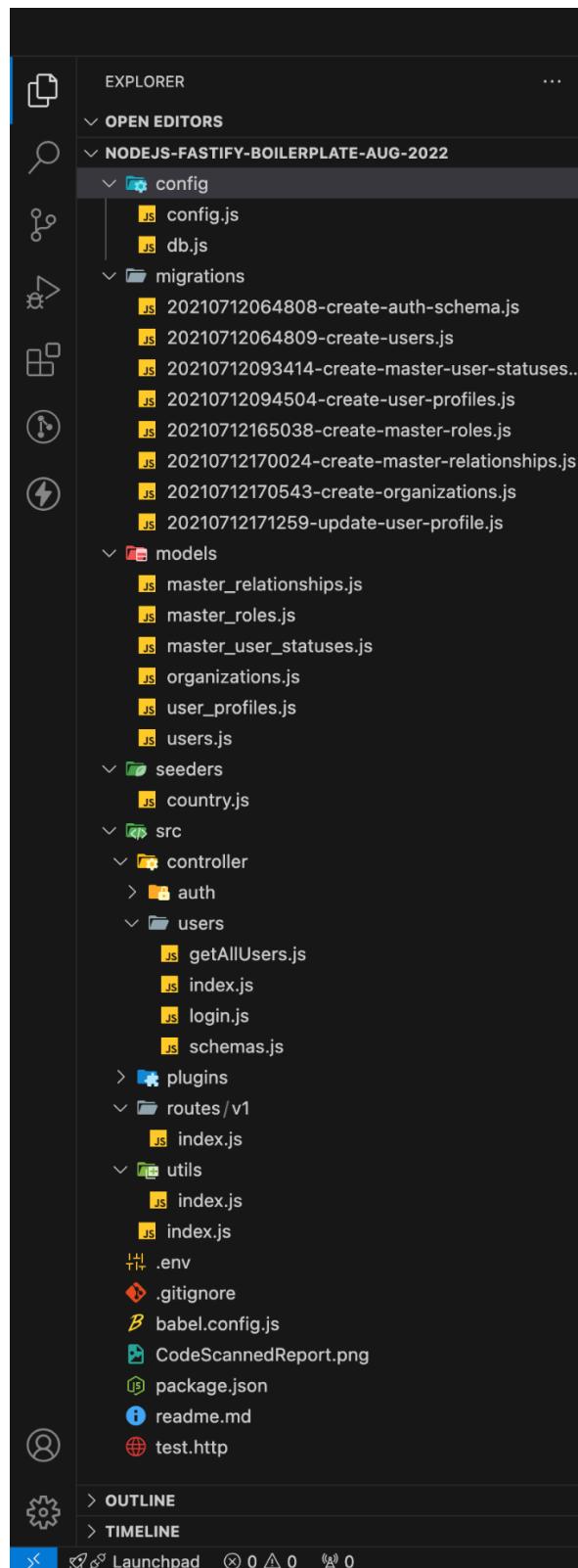


BACKEND BOILERPLATE

A backend boilerplate refers to a ready-to-use, predefined codebase or framework that provides the foundational structure and components needed to kickstart backend development for a project. It includes the essential tools, configurations, and conventions required to build and manage the server-side logic of an application.

Sample Backend Boilerplate :



Explanation of the Boilerplate :

Config Folder

- config.js: Holds application configuration settings
- db.js: Database connection configuration

Migrations Folder (Database structure changes)

- Contains dated files showing database evolution:
- Auth schema creation
- User tables creation
- User profiles setup
- Master roles and relationships setup
- Organizations setup
- Each file is timestamped (like 202107120648...) for tracking order

Models Folder (Database table structures)

- master_relationships.js: Defines relationships between users/roles
- master_roles.js: User role definitions
- master_user_statuses.js: User status types
- organizations.js: Organization structure
- user_profiles.js: User profile information
- users.js: Basic user information

Seeders Folder

- country.js: Initial country data for the database

src Folder (Main application code)

- **controller/**
 - auth/: Authentication logic
 - users/: User management functions
 - getAllUsers.js: Get users list
 - login.js: Login handling
 - schemas.js: Data validation rules
- **plugins/**: Fastify plugin configurations
- **routes/v1**: API endpoints (version 1)

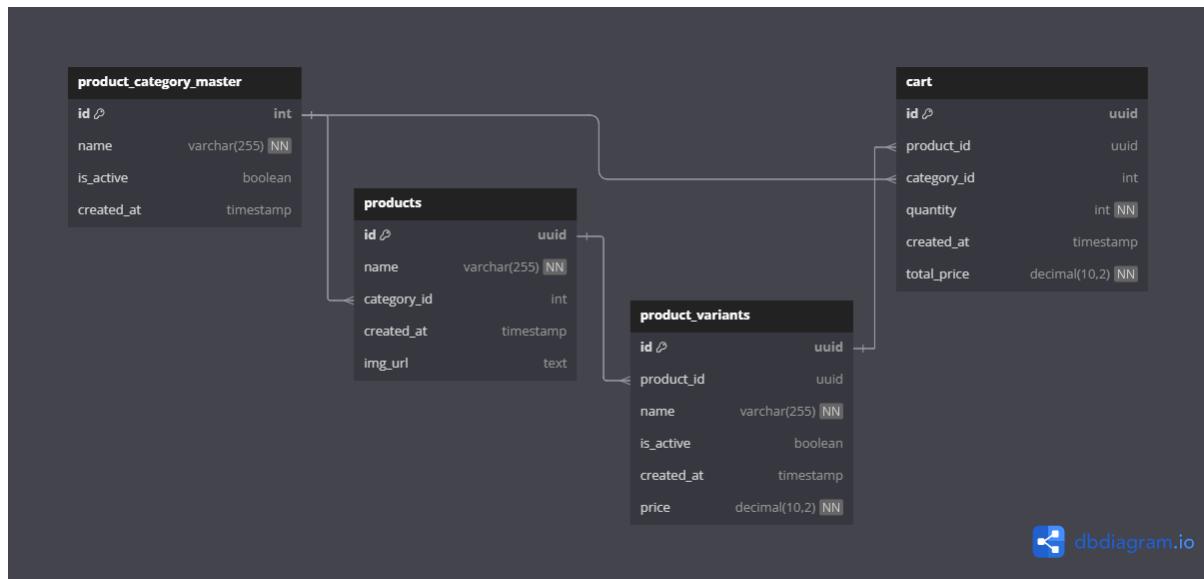
- o index.js: Main route definitions

- **utils/**: Helper functions

Root Files

- .env: Environment variables
- .gitignore: Git ignore rules
- babel.config.js: JavaScript compiler settings
- package.json: Project dependencies
- readme.md: Project documentation
- test.http: API test endpoints

DB DIAGRAM



DB Diagram Structure & Format:

1. Table Representation

- o Dark rectangular boxes represent tables
- o Table name is shown in the header (e.g., "product_category_master")
- o Each row below represents a column

2. Column Format

- o Column name on the left
- o Data type on the right
- o Special notations:
 - NN means "NOT NULL"

- Primary keys marked with a key symbol (🔑)
- UUIDs vs integers for IDs

3. Data Types Shown

- varchar(255): Text with max length
- boolean: True/False values
- timestamp: Date/time values
- int: Whole numbers
- decimal(10,2): Numbers with decimals
- uuid: Unique identifiers
- text: Long text content

4. Relationships

- Lines connecting tables show relationships
- Direction of arrows indicates relationship type
- Shows foreign key connections between tables

Common Conventions in the Diagram:

1. Naming

- Tables: snake_case (lowercase with underscores)
- Clear, descriptive names
- Suffix '_master' for lookup tables

2. Standard Fields

- id: For primary keys
- created_at: Timestamp for record creation
- is_active: For soft delete functionality

3. Common Patterns

- UUID vs Integer IDs
- Timestamp tracking
- Status flags
- Foreign key relationships