Maintenance Request System API Documentation

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# System Overview

The system consists of three main services:

* **Request Service - Manages maintenance requests**
* **Assignment Service** - Handles assignment of requests to staff
* **Feedback Service** - Manages feedback on completed requests

The system is built using:

* **Node.js** (Backend)
* **Express.js** (API Framework)
* **MongoDB** (Database)
* **Mongoose** (ODM for MongoDB)

# Base URLs

* Request Service: <http://localhost:5001/api/requests>
* Assignment Service: <http://localhost:4000/assignments>
* Feedback Service: <http://localhost:4000/feedback>

# Project Structure

The system is divided into **three microservices**, each with its own API:

* **Request Service** (/api/requests)
* **Assignment Service** (/assignments)
* **Feedback Service** (/feedback)

Each service follows a **modular structure** with:

* **Models** (Mongoose Schemas)
* **Routes** (API Endpoints)
* **Server Configuration** (Express setup)

# Code Structure Break Down

Request Services:

File: Request.js

A screen shot of a computer program

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Key Features:

* Tracks request status (Pending, In Progress, Resolved)
* Stores user ID, title, description, and optional image

File: router.js

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Key Features:

* RESTful CRUD operations for requests
* Supports filtering by user ID

**File:** server.js

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**Key Features:**

* Uses **CORS** for cross-origin requests.
* Connects to MongoDB via MONGO\_URI in .env

Assignment Service:

**File:** Assignment.js

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**Key Features:**

* Tracks assignment status (Assigned, In Progress, Completed)
* References Request and User collections

**File:** assignmentRoutes.js

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**Key Features:**

* Supports assignment creation, updates, and deletion
* Can fetch assignments by staffId

**File:** server.js

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**Key Features:**

* Runs on port **4000** (separate from Request Service)
* Shares the same MongoDB instance

Feedback.js

**File:** Feedback.js

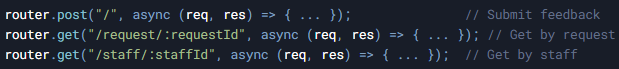
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**Key Features:**

* Stores **ratings (1-5)** and comments
* Automatically tracks timestamps

**File:** feedbackRoutes.js



**Key Features:**

* Allows submitting and retrieving feedback
* Supports filtering by requestId or staffId

**File:** server.js

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**Key Features:**

* Runs on the **same port (4000)** as Assignment Service
* Shares MongoDB connection

# Postman

## Requests:

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## Assignment Service:

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## Feedback:

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## User:

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