

# Services Relationship Document

## Project Name:

MarketMint

Name: Aditi Amar Naik

Net id.:ay5211

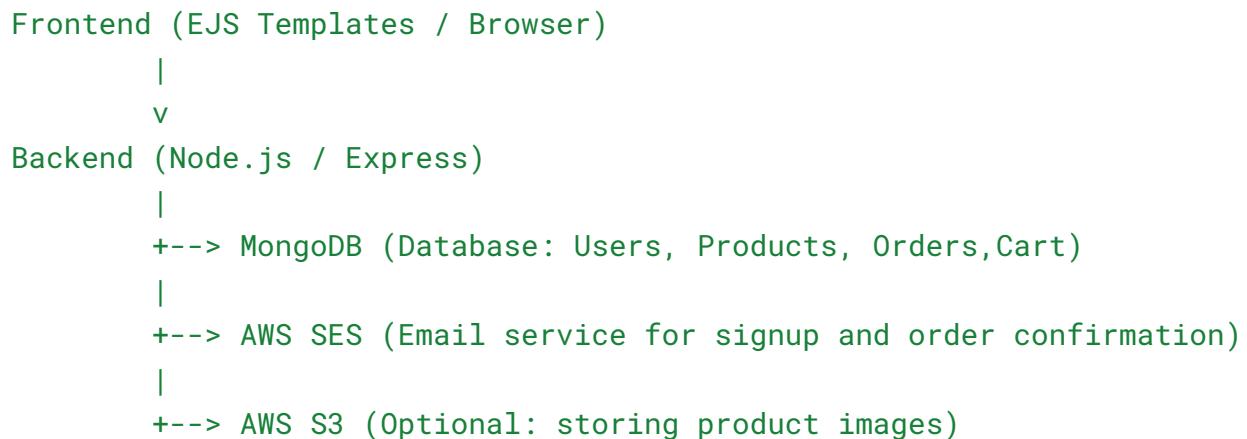
---

## 1. Overview

This document explains how the **Frontend, Backend, Database, and Services** interact in the Mini Amazon Clone project, and shows the relationship with external services such as AWS.

---

## 2. Architecture Diagram



## 3. Description of Relationships

1. **Frontend → Backend**

- User actions (signup, login, add to cart, place order) send HTTP requests to backend APIs.
- Backend responds with HTML pages, JSON data, or status messages.

## 2. Backend → Database (MongoDB)

- Stores and retrieves users, products, orders,etc.
- Handles queries and updates for all CRUD operations.

## 3. Backend → AWS SES (Simple Email Service)

- Sends verification emails for new users.
- Operates in sandbox mode (only verified emails can be used for testing).

## 4. Backend → AWS S3 and CloudFront

- Stores product images ,logos and serves them to frontend pages through cloudfront .
- 

## 4. External Services & Links

Service	Purpose	External Link
AWS SES	Sending emails	<a href="https://aws.amazon.com/ses/">https://aws.amazon.com/ses/</a>
AWS S3	Storing images	<a href="https://aws.amazon.com/s3/">https://aws.amazon.com/s3/</a>
AWS CloudFront	Accessing Images	<a href="https://aws.amazon.com/cloudfront/">https://aws.amazon.com/cloudfront/</a>
AWS EC2	Hosting website	<a href="https://aws.amazon.com/EC2/">https://aws.amazon.com/EC2/</a>
MongoDB	Database	<a href="https://www.mongodb.com/">https://www.mongodb.com/</a>

---

## 5. Notes

- Ensure AWS credentials are correctly configured in `.env`.
- Database must be running for backend to function.
- Services interactions are **synchronous** for user actions like signup and order placement.