

**Full Stack Development with MERN**  
**API Development and Integration Report**

Date	22 June 2024
Team ID	SWTID1720433526
Project Name	Project - Book-Store
Maximum Marks	12 Marks

**Project Title: Book-Store**

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**Objective**

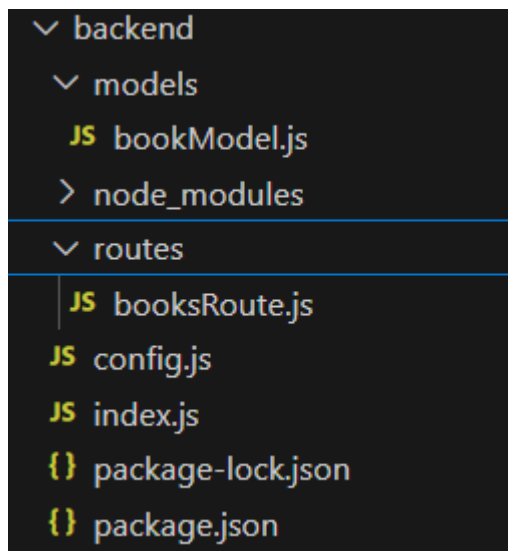
The objective of this report is to document the API development progress and key aspects of the backend services implementation for the Book-Store project.

**Technologies Used**

**Backend Framework:** Node.js with Express.js

**Database:** MongoDB

**Project Structure:**



models - It is the folder containing the models.

bookModel.js - Defines the schema and model for the model for the books in the database.

routes - It is the folder containing the routes.

booksRoute.js - Define the routes for handling book-related API requests.

config.js - Contains the configuration settings to connect to MongoDB database.

Index.js - The main entry point of the application that sets up the server and connects all the components.

## Key Directories and Files

1. **/models** - Includes Mongoose schemas and models for MongoDB collections.
2. **/routes** - Defines the API endpoints and links them to controller functions.
3. **/config** - Configuration files for database connections, environment variables, etc.

## **API Endpoints**

A summary of the main API endpoints and their purposes:

**post /** - Saving a new book to database

**get /** - Get all books from database

**get/:id** - Get one book from database

**put/:id** - Update a book

**delete/:id** - Delete a book

## **Integration with Frontend**

The backend communicates with the frontend via RESTful APIs. Key points of integration include:

**Data Fetching:** Frontend components make API calls to fetch necessary data for display and interaction.

## **Error Handling and Validation**

Describe the error handling strategy and validation mechanisms:

**Error Handling:** Centralized error handling using middleware.