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#!/bin/bash
# Script to install all necessary dependencies for a NestJS project

# -----
# Core NestJS modules
# -----

    npm install --save @nestjs/common
# Provides common decorators, interfaces, and utilities used in NestJS (Controller,
Injectable, etc.)

    npm install --save @nestjs/core
# The core NestJS framework needed to bootstrap and run your application

    npm install --save @nestjs/platform-express
# Integrates NestJS with the Express framework, allowing you to handle HTTP
requests

# -----
# MongoDB + Mongoose
# -----

    npm install --save @nestjs/mongoose
# NestJS module to integrate Mongoose (MongoDB ORM) with NestJS

    npm install --save mongoose
# Mongoose library itself for MongoDB database operations

# -----
# Authentication (JWT + Passport)
# -----

    npm install --save @nestjs/jwt
# NestJS module to handle JWT creation, validation, and token management

    npm install --save passport
# Passport is a flexible authentication middleware for Node.js

npm install --save passport-jwt
```

Passport strategy to handle JWT authentication

-> npm install --save bcrypt

Library to hash and verify passwords securely

Validation and transformation

-> npm install --save class-validator

Library to validate DTOs (Data Transfer Objects) with decorators like
@IsNotEmpty()

-> npm install --save class-transformer

Converts plain JavaScript objects to class instances and helps with
serialization/deserialization

File upload

-> npm install --save multer

Middleware for handling multipart/form-data, used for file uploads (e.g., profile
images)

API documentation (Swagger)

-> npm install --save @nestjs/swagger

NestJS module to generate Swagger/OpenAPI documentation automatically

-> npm install --save swagger-ui-express

Serves Swagger UI in your NestJS application

Environment variables

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-> npm install --save dotenv
# Loads environment variables from a .env file into process.env
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# -----
# TypeScript type definitions (development only)
# -----
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-> npm install --save-dev @types/multer
# Type definitions for Multer (for TypeScript)
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```
-> npm install --save-dev @types/passport-jwt
# Type definitions for passport-jwt (for TypeScript)
```

```
-> npm install --save-dev @types/bcrypt
# Type definitions for bcrypt (for TypeScript)
```

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# -----
# Completion message
# -----
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```
echo "Installation terminée avec succès !"
# Prints a message confirming all packages were installed
```