

**Dear team leader;**

**This document has a description of the back-end assignment,**

**#Techniques Used:**

- **Engine:**
  - 1- Node JS v16.19.1 ( Nest JS / TypeScript )
- **DB Engine:**
  - 1- Postgresql database <https://www.postgresql.org/docs/>
- **ORM:**
  - 1- Prisma ORM <https://www.prisma.io/docs>
- **API Documentation:**
  - 1- Swagger API Documentation <https://swagger.io/docs/>
- **Authentication Strategy:**
  - 1- Passport-JWT <http://www.passportjs.org/packages/passport-jwt/>
  - 2- Passport-Local <https://www.passportjs.org/packages/passport-local/>
  - 3- Bcrypt ( Password encrypter ) NPM
- **Mail Sender:**
  - 1- mailer NPM
- **Validation Strategy:**
  - 1- class-transformer NPM
  - 2- class-validator NPM
- **Environment File:**
  - 1- dotenv NPM
  - 2- dotenv-cli NPM
- **File Management:**
  - 1- fs NPM

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**#First start instruction:**

- **npm I**
- read “.env.example” file and create .env file and fill required information.
- **npm run generate** // to generate schema tables in ./nodemodule
- **npm run migrate** // to create db named in .env in database URL and create tables.
- **npm start or npm run start:dev** // for watch.
- **after the run and connection to the database succeed, you have to log this information:**

**Server Running on <http://localhost:3000>**

**API Documentation For Dashboard Running on <http://localhost:3000/api/v1/dashboard/api-docs>**

**API Documentation For Client Running on <http://localhost:3000/api/v1/client/api-docs>**

**this URLs generated from .env file information and refer of server URL and API documentation.**

- <http://localhost:3000/api/v1/dashboard/api-docs> // for Admin Dashboard API documentation.
- <http://localhost:3000/api/v1/client/api-docs> // for User Client API documentation

**#Header Keys:**

- **refresh-token** // we need to send it in refresh token endpoint.
- **Authorization** // we need to send Bearer authentication token

## **#Client API Documentation:**

### **Sign up User:**

- **/api/v1/client/auth/signup-email**  
-- to signup user by email and send OTP code by verification mail and return user data.
- **/api/v1/client/auth/signup-phone-number**  
-- to signup user by phone number and return user data and we can send OTP code by SMS Message but not included now.
- **/api/v1/client/auth/verify-user**  
-- to verify user after send mail by signup endpoint and return access token.
- **/api/v1/client/auth/resend-confirm-otp**  
-- to resend OTP code to user email if old OTP code expired and return message to done.

### **Login User:**

- **/api/v1/client/auth/login**  
-- to login user by email or phone number and return access token or user isn't verified.
- **/api/v1/client/auth/logout**  
-- to logout user and return only success 200
- **/api/v1/client/auth/refresh**  
-- to create refresh token and new expired time and return access token.
- **/api/v1/client/auth/is\_authenticated**  
-- to make sure is user authenticated and return userId and email.

### **User Password:**

- **/api/v1/client/auth/forget-password**  
-- to send OTP code by to email and return message to done.
- **/api/v1/client/auth/reset-password**  
-- to reset password after OTP code sent and return message to done.

### **File Uploader:**

- **/api/v1/client/upload/upload-file**  
-- to upload file by multipart/formdata and send uploadFileFor in query for store this uploaded file in specific folder and our folder key now is : PRODUCT\_IMAGE and return url and type and we need file URL to store it in create or update product in imageUrl field.
- **/api/v1/client/upload/delete-file**  
-- to delete file and return success 200.

### **User Management:**

- **/api/v1/client/user/change-my-password**  
-- to change my password if I authenticated and return message for done.
- **/api/v1/client/user/get-my-profile**  
-- to get my profile information and return user information.
- **/api/v1/client/user/update-my-profile**  
-- to update my profile information and return user information after update.

### **Product:**

- **/api/v1/client/product/my-products**  
-- to get list of products assigned to me by Admin with pagination.
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## #Admin Dashboard API Documentation:

### Login Admin User:

- **/api/v1/dashboard/auth/login**  
-- to login user by email or phone number and return access token or user isn't verified.
- **/api/v1/client/auth/logout**  
-- to logout user and return only success 200
- **/api/v1/dashboard/auth/refresh**  
-- to create refresh token and new expired time and return access token.
- **/api/v1/dashboard/auth/is\_authenticated**  
-- to make sure is user authenticated and return userId and email.

### Admin User Password:

- **/api/v1/dashboard/auth/forget-password**  
-- to send OTP code by to email and return message to done.
- **/api/v1/dashboard/auth/reset-password**  
-- to reset password after OTP code sent and return message to done.

### File Uploader:

- **/api/v1/dashboard/upload/upload-file**  
-- to upload file by multipart/formdata and send uploadFileFor in query for store this uploaded file in specific folder and our folder key now is : PRODUCT\_IMAGE and return url and type and we need file URL to store it in create or update product in imageUrl field.
- **/api/v1/dashboard/upload/delete-file**  
-- to delete file and return success 200.

### User Management:

- **/api/v1/dashboard/user/ change-my-password**  
-- to change my password if I authenticated and return message for done.
- **/api/v1/dashboard/user/ change-user-password**  
-- to change user password if I authenticated and return message for done.
- **/api/v1/dashboard/user/update-user-profile**  
-- to update user profile information and return user information after update.
- **/api/v1/dashboard/user/users-list**  
-- to get list of users with pagination.

### Product:

- **/api/v1/dashboard/product** **Method type: POST**  
-- to create new product and get imageUrl from file uploader endpoint after upload file.
- **/api/v1/dashboard/product/:id** **Method type: GET**  
-- to get product information by id and return product data.
- **/api/v1/dashboard/product/:id** **Method type: PUT**  
-- to update product information by id and return updated product data.

- **/api/v1/dashboard/product/:id** **Method type: DELETE**
    - to delete product information by id and return message for done.
  - **/api/v1/dashboard/product/list**
    - to get list of products with pagination.
  - **/api/v1/dashboard/product/user-products/:userId**
    - to get list of products assigned to user with pagination.
  - **/api/v1/dashboard/product/assign-products**
    - to assign products to specific user and return user data with his assigned products.
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#### **#File Storage:**

- **We store files on local folder “public” in project root and we can use AWS S3 Bucket.**