

โครงสร้างของไฟล์

```
my-backend/
├── .env
├── package.json
├── src/
│   ├── config
│   │   ├── cloudnary.js
│   │   ├── db_mydb.js
│   │   └── globalKey.js
│   ├── controler
│   │   └── users.js// และ อื่นๆตาม collection ที่มี
│   ├── middleware
│   │   └── auth.js
│   ├── router
│   │   └── route.js
│   ├── service
│   │   ├── message.js
│   │   ├── response.js
│   │   ├── service.js
│   │   └── validate.js
│   └── index.js
├── prisma/
└── schema.prisma
```

โครงสร้างของ MongoDB Collection

```
use travel_booking;
```

```
/* ===== countries ===== */
db.createCollection("countries", {
  validator: {
    $jsonSchema: {
      bsonType: "object",
      required: ["name", "iso2", "iso3", "currency"],
      properties: {
        name: { bsonType: "string" },
        iso2: { bsonType: "string", description: "2-letter code" },
        iso3: { bsonType: "string", description: "3-letter code" },
        phoneCode: { bsonType: "string" },
        currency: {
          bsonType: "object",
          required: ["code"],
          properties: {
            code: { bsonType: "string" }, // เช่น LAK, USD, THB
            name: { bsonType: "string" },
            symbol: { bsonType: "string" }
          }
        }
      }
    }
  }
})
```

```

    }
  },
  createdAt: { bsonType: "date" },
  updatedAt: { bsonType: "date" }
}
}
});
db.countries.createIndex({ iso2: 1 }, { unique: true });
db.countries.createIndex({ iso3: 1 }, { unique: true });

/* ===== provinces ===== */
db.createCollection("provinces", {
  validator: {
    $jsonSchema: {
      bsonType: "object",
      required: ["name", "country_id"],
      properties: {
        name: { bsonType: "string" },
        country_id: { bsonType: "objectId" },
        createdAt: { bsonType: "date" },
        updatedAt: { bsonType: "date" }
      }
    }
  }
});
db.provinces.createIndex({ country_id: 1, name: 1 }, { unique: true });

/* ===== cities ===== */
db.createCollection("cities", {
  validator: {
    $jsonSchema: {
      bsonType: "object",
      required: ["name", "province_id", "country_id"],
      properties: {
        name: { bsonType: "string" },
        province_id: { bsonType: "objectId" },
        country_id: { bsonType: "objectId" },
        location: {
          bsonType: "object",
          properties: {
            type: { enum: ["Point"] },
            coordinates: {
              bsonType: "array",
              items: [{ bsonType: "double" }, { bsonType: "double" }],
              description: "[lng, lat]"
            }
          }
        }
      }
    }
  }
});

```

```

    },
    createdAt: { bsonType: "date" },
    updatedAt: { bsonType: "date" }
  }
}
});
db.cities.createIndex({ province_id: 1, name: 1 }, { unique: true });
db.cities.createIndex({ location: "2dsphere" });

/* ===== attractions ===== */
db.createCollection("attractions", {
  validator: {
    $jsonSchema: {
      bsonType: "object",
      required: ["name", "city_id", "province_id", "country_id"],
      properties: {
        name: { bsonType: "string" },
        description: { bsonType: "string" },
        city_id: { bsonType: "objectId" },
        province_id: { bsonType: "objectId" },
        country_id: { bsonType: "objectId" },
        location: {
          bsonType: "object",
          properties: {
            type: { enum: ["Point"] },
            coordinates: {
              bsonType: "array",
              items: [{ bsonType: "double" }, { bsonType: "double" }],
              description: "[lng, lat]"
            }
          }
        }
      }
    },
  },
  categories: { bsonType: "array", items: { bsonType: "string" } },
  images: { bsonType: "array", items: { bsonType: "string" } },
  ratingAvg: { bsonType: ["double", "int"] },
  ratingCount: { bsonType: "int" },
  isActive: { bsonType: "bool" },
  createdAt: { bsonType: "date" },
  updatedAt: { bsonType: "date" }
}
});
db.attractions.createIndex({ country_id: 1, province_id: 1, city_id: 1 });
db.attractions.createIndex({ location: "2dsphere" });
db.attractions.createIndex({ name: "text", description: "text" });

```

```

/* ===== packages ===== */
db.createCollection("packages", {
  validator: {
    $jsonSchema: {
      bsonType: "object",
      required: ["name", "code", "baseCurrency", "priceAdult", "durationDays", "isActive"],
      properties: {
        name: { bsonType: "string" },
        code: { bsonType: "string" },
        description: { bsonType: "string" },
        durationDays: { bsonType: "int" },
        startCity_id: { bsonType: "objectId" },
        country_id: { bsonType: "objectId" },
        baseCurrency: { bsonType: "string" }, // เช่น LAK / USD / THB
        priceAdult: { bsonType: ["double", "int"] },
        priceChild: { bsonType: ["double", "int"] },
        images: { bsonType: "array", items: { bsonType: "string" } },
        itinerary: {
          bsonType: "array",
          items: {
            bsonType: "object",
            required: ["day", "title"],
            properties: {
              day: { bsonType: "int" },
              title: { bsonType: "string" },
              detail: { bsonType: "string" },
              attractions: { bsonType: "array", items: { bsonType: "objectId" } }
            }
          }
        },
        availableDates: { bsonType: "array", items: { bsonType: "date" } },
        tags: { bsonType: "array", items: { bsonType: "string" } },
        ratingAvg: { bsonType: ["double", "int"] },
        ratingCount: { bsonType: "int" },
        isActive: { bsonType: "bool" },
        createdAt: { bsonType: "date" },
        updatedAt: { bsonType: "date" }
      }
    }
  }
});
db.packages.createIndex({ code: 1 }, { unique: true });
db.packages.createIndex({ country_id: 1, isActive: 1 });
db.packages.createIndex({ name: "text", description: "text", tags: "text" });

/* ===== users ===== */
db.createCollection("users", {
  validator: {

```

```

$jsonSchema: {
  bsonType: "object",
  required: ["name", "email"],
  properties: {
    name: { bsonType: "string" },
    email: { bsonType: "string" },
    phone: { bsonType: "string" },
    role: { enum: ["customer", "admin", "staff"] },
    passwordHash: { bsonType: "string" },
    passport: {
      bsonType: "object",
      properties: {
        number: { bsonType: "string" },
        nationality: { bsonType: "string" },
        expiryDate: { bsonType: "date" }
      }
    },
  },
  addresses: {
    bsonType: "array",
    items: {
      bsonType: "object",
      properties: {
        label: { bsonType: "string" },
        line1: { bsonType: "string" },
        city: { bsonType: "string" },
        province: { bsonType: "string" },
        country: { bsonType: "string" },
        zip: { bsonType: "string" }
      }
    }
  },
  loyaltyPoints: { bsonType: "int" },
  createdAt: { bsonType: "date" },
  updatedAt: { bsonType: "date" }
}
});
db.users.createIndex({ email: 1 }, { unique: true });
db.users.createIndex({ phone: 1 }, { unique: true, sparse: true });

/* ===== bookings (ឯក items ឯង) ===== */
db.createCollection("bookings", {
  validator: {
    $jsonSchema: {
      bsonType: "object",
      required: ["bookingNo", "user_id", "status", "items", "currency", "amounts"],
      properties: {

```

```

bookingNo: { bsonType: "string" }, // เลขที่เอกสาร
user_id: { bsonType: "objectId" },
status: { enum: ["pending", "paid", "confirmed", "completed", "canceled", "refunded"] },
travelWindow: {
  bsonType: "object",
  properties: {
    startDate: { bsonType: "date" },
    endDate: { bsonType: "date" }
  }
},
travelers: {
  bsonType: "array",
  items: {
    bsonType: "object",
    required: ["type"],
    properties: {
      type: { enum: ["adult", "child", "infant"] },
      firstName: { bsonType: "string" },
      lastName: { bsonType: "string" },
      dob: { bsonType: "date" },
      passportNo: { bsonType: "string" }
    }
  }
},
items: {
  bsonType: "array",
  minItems: 1,
  items: {
    bsonType: "object",
    required: ["package_id", "title", "qtyAdults", "priceAdult"],
    properties: {
      package_id: { bsonType: "objectId" },
      title: { bsonType: "string" }, // snapshot ชื่อแพ็คเกจตอนจอง
      qtyAdults: { bsonType: "int" },
      qtyChildren: { bsonType: "int" },
      priceAdult: { bsonType: ["double", "int"] },
      priceChild: { bsonType: ["double", "int"] },
      options: {
        bsonType: "array",
        items: {
          bsonType: "object",
          properties: {
            name: { bsonType: "string" },
            price: { bsonType: ["double", "int"] }
          }
        }
      }
    }
  }
},
subtotal: { bsonType: ["double", "int"] }

```

```

    }
  }
},
currency: { bsonType: "string" }, // LAK/USD/THB
amounts: {
  bsonType: "object",
  required: ["itemsTotal", "discount", "tax", "fee", "grandTotal"],
  properties: {
    itemsTotal: { bsonType: ["double", "int"] },
    discount: { bsonType: ["double", "int"] },
    tax: { bsonType: ["double", "int"] },
    fee: { bsonType: ["double", "int"] },
    grandTotal: { bsonType: ["double", "int"] }
  }
},
payment: {
  bsonType: "object",
  properties: {
    method: { bsonType: "string" }, // card, cash, bank, wallet
    status: { enum: ["unpaid", "paid", "failed", "refunded", "partial"] },
    paidAt: { bsonType: "date" },
    transactions: {
      bsonType: "array",
      items: {
        bsonType: "object",
        properties: {
          ref: { bsonType: "string" },
          amount: { bsonType: ["double", "int"] },
          at: { bsonType: "date" }
        }
      }
    }
  }
},
notes: { bsonType: "string" },
createdAt: { bsonType: "date" },
updatedAt: { bsonType: "date" }
}
}
});
db.bookings.createIndex({ bookingNo: 1 }, { unique: true });
db.bookings.createIndex({ user_id: 1, status: 1 });
db.bookings.createIndex({ "travelWindow.startDate": 1 });

/* ===== reviews ===== */
db.createCollection("reviews", {
  validator: {

```

```

$jsonSchema: {
  bsonType: "object",
  required: ["user_id", "rating", "target"],
  properties: {
    user_id: { bsonType: "objectId" },
    rating: { bsonType: "int", minimum: 1, maximum: 5 },
    comment: { bsonType: "string" },
    photos: { bsonType: "array", items: { bsonType: "string" } },
    // target = { type: 'package'|'attraction', id: ObjectId }
    target: {
      bsonType: "object",
      required: ["type", "id"],
      properties: {
        type: { enum: ["package", "attraction"] },
        id: { bsonType: "objectId" }
      }
    },
    createdAt: { bsonType: "date" },
    updatedAt: { bsonType: "date" }
  }
}
});
db.reviews.createIndex({ "target.type": 1, "target.id": 1 });
db.reviews.createIndex({ user_id: 1, "target.type": 1, "target.id": 1 }, { unique: true });

```

โครงสร้างของ Model prisma

// This is your Prisma schema file,
 // learn more about it in the docs: <https://pris.ly/d/prisma-schema>

```

generator client {
  provider = "prisma-client-js"
}

datasource db {
  provider = "mongodb"
  url      = env("DATABASE_URL")
}

// ===== Country =====
model Country {
  id      String  @id @default(auto()) @map("_id") @db.ObjectId
  name    String
  iso2    String  @unique
  iso3    String  @unique
  phoneCode String?
}

```



```

currency  Currency // Embedded type แทน relation
provinces Province[]
cities    City[]
attractions Attraction[]
packages  Package[]
createdAt DateTime?
updatedAt DateTime?
}

// ===== Currency Embedded Type =====
type Currency {
  code  String
  name  String?
  symbol String?
}

// ===== Province =====
model Province {
  id      String  @id @default(auto()) @map("_id") @db.ObjectId
  name    String
  country_id String  @db.ObjectId
  country Country  @relation(fields: [country_id], references: [id])
  cities  City[]
  attractions Attraction[]
  createdAt DateTime?
  updatedAt DateTime?
}

// ===== City =====
model City {
  id      String  @id @default(auto()) @map("_id") @db.ObjectId
  name    String
  province_id String  @db.ObjectId
  province Province  @relation(fields: [province_id], references: [id])
  country_id String  @db.ObjectId
  country  Country  @relation(fields: [country_id], references: [id])
  location Location?
  attractions Attraction[]
  packages  Package[]
  createdAt DateTime?
  updatedAt DateTime?
}

// ===== Location Embedded Type =====
type Location {
  type      String
  coordinates Float[]
}

```

```
// ===== Attraction =====
```

```
model Attraction {  
  id      String  @id @default(auto()) @map("_id") @db.ObjectId  
  name     String  
  description String?  
  city_id  String  @db.ObjectId  
  city     City    @relation(fields: [city_id], references: [id])  
  province_id String @db.ObjectId  
  province Province @relation(fields: [province_id], references: [id])  
  country_id String @db.ObjectId  
  country  Country @relation(fields: [country_id], references: [id])  
  location Location?  
  categories String[]  
  images   String[]  
  ratingAvg Float?  
  ratingCount Int?  
  isActive Boolean?  
  createdAt DateTime?  
  updatedAt DateTime?  
}
```

```
// ===== Package =====
```

```
model Package {  
  id      String  @id @default(auto()) @map("_id") @db.ObjectId  
  name     String  
  code     String  @unique  
  description String?  
  durationDays Int  
  startCity_id String? @db.ObjectId  
  startCity  City?    @relation(fields: [startCity_id], references: [id])  
  country_id String?  @db.ObjectId  
  country    Country? @relation(fields: [country_id], references: [id])  
  baseCurrency String  
  priceAdult  Float  
  priceChild  Float?  
  images      String[]  
  itinerary   Itinerary[]  
  availableDates DateTime[]  
  tags        String[]  
  ratingAvg   Float?  
  ratingCount Int?  
  isActive    Boolean  
  bookings    Booking[]  
  createdAt   DateTime?  
  updatedAt   DateTime?  
}
```

```

// ===== Itinerary Embedded Type =====
type Itinerary {
  day      Int
  title    String
  detail   String?
  attractions String[] // ObjectId strings
}

// ===== User =====
model User {
  id      String  @id @default(auto()) @map("_id") @db.ObjectId
  uuid    String  @unique @default(uuid())
  name     String
  email    String  @unique
  phone    String? @unique
  role     String  @default("customer")
  passwordHash String?
  passport Passport?
  addresses Address[]
  loyaltyPoints Int  @default(0)
  bookings Booking[]
  reviews  Review[]
  createdAt DateTime @default(now())
  updatedAt DateTime @updatedAt
}

// ===== Passport Embedded Type =====
type Passport {
  number      String?
  nationality String?
  expiryDate  DateTime?
}

// ===== Address Embedded Type =====
type Address {
  label   String?
  line1   String?
  city    String?
  province String?
  country String?
  zip     String?
}

// ===== Booking =====
model Booking {
  id      String  @id @default(auto()) @map("_id") @db.ObjectId
  bookingNo String  @unique
  user_id String    @db.ObjectId // ตรงกับ MongoDB collection

```

```

user      User      @relation(fields: [user_id], references: [id])
status    String
travelWindow TravelWindow?
travelers Traveler[]
items     BookingItem[]
currency  String
amounts   Amounts
payment   Payment?
notes     String?
package_id String?   @db.ObjectId
package   Package?   @relation(fields: [package_id], references: [id])
createdAt DateTime?
updatedAt DateTime?
}

// ===== TravelWindow Embedded Type =====
type TravelWindow {
  startDate DateTime?
  endDate   DateTime?
}

// ===== Traveler Embedded Type =====
type Traveler {
  type      String
  firstName String?
  lastName  String?
  dob       DateTime?
  passportNo String?
}

// ===== BookingItem Embedded Type =====
type BookingItem {
  package_id String @db.ObjectId
  title      String
  qtyAdults  Int
  qtyChildren Int?
  priceAdult Float
  priceChild Float?
  options    Option[]
  subtotal   Float?
}

// ===== Option Embedded Type =====
type Option {
  name String?
  price Float?
}

```

```

// ===== Amounts Embedded Type =====
type Amounts {
  itemsTotal Float
  discount  Float
  tax       Float
  fee       Float
  grandTotal Float
}

// ===== Payment Embedded Type =====
type Payment {
  method   String?
  status    String?
  paidAt    DateTime?
  transactions Transaction[]
}

// ===== Transaction Embedded Type =====
type Transaction {
  ref   String?
  amount Float?
  at    DateTime?
}

// ===== Review =====
model Review {
  id      String  @id @default(auto()) @map("_id") @db.ObjectId
  user_id String  @db.ObjectId // เปลี่ยนจาก userId เป็น user_id ให้ตรงกับ MongoDB
  user    User    @relation(fields: [user_id], references: [id])
  rating  Int
  comment String?
  photos  String[]
  target  Target
  createdAt DateTime?
  updatedAt DateTime?
}

// ===== Target Embedded Type =====
type Target {
  type String
  id   String @db.ObjectId
}

```

โครงสร้างของ [Auth.js](#)

```

import { EMessage } from "../service/message.js";
import { SendError } from "../service/response.js";
import { VerifyToken } from "../service/service.js";

export const auth = async (req, res, next) => {
  try {
    const authorization = req.headers['authorization'];
    if (!authorization) {
      return SendError(res, 401, EMessage.Unauthorization);
    }

    const token = authorization.replace("Bearer ", "");
    console.log("Token received:", token);

    const verify = await VerifyToken(token);
    if (!verify) {
      return SendError(res, 401, EMessage.Unauthorization);
    }

    console.log("User verified:", verify);
    req.user = verify;
    next();
  } catch (error) {
    console.error("Auth middleware error:", error);
    return SendError(res, 401, EMessage.Unauthorization);
  }
};

```

โครงสร้างสร้างของ User.js

```

import { ObjectId } from "mongodb";
import getDB from "../config/db_mydb.js";
import { EMessage, SMessage } from "../service/message.js";
import { SendCreate, SendError, SendSuccess } from
"../service/response.js";
import { ValidateData } from "../service/validate.js";
import {
  Encrypt,
  Decrypt,
  GenerateToken,
  VerifyRefreshToken,
} from "../service/service.js";
import { v4 as uuidv4 } from "uuid";

```

```

// usersCollection เป็น async function
const usersCollection = async () => (await
getDB()).collection("users");

export default class UserController {
  static async Register(req, res) {
    try {
      const { name, email, phone, password, role } = req.body;
      const validate = await ValidateData({
        name,
        email,
        phone,
        password,
        role,
      });
      if (validate.length > 0)
        return SendError(res, 400, EMessage.BadRequest +
validate.join(", "));

      const passwordHash = await Encrypt(password);
      const uuid = uuidv4(); // สร้าง uuid
      const user = {
        _id: new ObjectId(),
        uuid, // เพิ่ม uuid field
        name,
        email,
        phone,
        role: role || "customer",
        passwordHash,
        passport: {},
        addresses: [],
        loyaltyPoints: 0,
        createdAt: new Date(),
        updatedAt: new Date(),
      };

      const collection = await usersCollection();
      const result = await collection.insertOne(user);
      if (!result.insertedId) return SendError(res, 500,
EMessage.ErrInsert);

      delete user.passwordHash;

```

```

        return SendCreate(res, SMessage.Register, user);
    } catch (err) {
        return SendError(res, 500, EMessage.ServerInternal, err);
    }
}

static async Login(req, res) {
    try {
        const { email, password } = req.body;
        const validate = await ValidateData({ email, password });
        if (validate.length > 0)
            return SendError(res, 400, EMessage.BadRequest +
validate.join(", "));

        const collection = await usersCollection();
        const user = await collection.findOne({ email });
        if (!user) return SendError(res, 404, EMessage.NotFound);

        const decrypted = await Decrypt(user.passwordHash);
        if (password !== decrypted)
            return SendError(res, 404, EMessage.IsNotMatch);

        delete user.passwordHash;

        // ใช้ uuid ในการสร้าง token (ถ้าไม่มี uuid ให้ใช้ _id)
        const tokenId = user.uuid || user._id.toString();
        const token = await GenerateToken(tokenId);
        const data = { ...user, ...token };
        return SendSuccess(res, SMessage.Login, data);
    } catch (err) {
        return SendError(res, 500, EMessage.ServerInternal, err);
    }
}

static async SelectAll(req, res) {
    try {
        const collection = await usersCollection();
        const users = await collection.find({}, {
            projection: { passwordHash: 0 } // ไม่ส่ง passwordHash
        }).toArray();
        if (!users || users.length === 0)
            return SendError(res, 404, EMessage.NotFound, "users");
        return SendSuccess(res, SMessage.SelectAll, users);
    }
}

```



```

    } catch (err) {
        return SendError(res, 500, EMessage.ServerInternal, err);
    }
}

static async SelectOne(req, res) {
    try {
        const userIdentifier = req.params.userID;
        const collection = await usersCollection();

        // ลองหาด้วย uuid ก่อน ถ้าไม่เจอค่อยหาด้วย _id
        let user = await collection.findOne({ uuid: userIdentifier });
        if (!user && ObjectId.isValid(userIdentifier)) {
            user = await collection.findOne({ _id: new
ObjectId(userIdentifier) });
        }

        if (!user) return SendError(res, 404, EMessage.NotFound, "user");

        delete user.passwordHash;
        return SendSuccess(res, SMessage.SelectOne, user);
    } catch (err) {
        return SendError(res, 500, EMessage.ServerInternal, err);
    }
}

static async updateProfile(req, res) {
    try {
        const userIdentifier = req.params.userID;
        const { name, phone, email } = req.body;
        const validate = await ValidateData({ name, phone, email });
        if (validate.length > 0)
            return SendError(res, 400, EMessage.BadRequest +
validate.join(", "));

        const collection = await usersCollection();

        // ลองหาด้วย uuid ก่อน ถ้าไม่เจอค่อยหาด้วย _id
        let filter = { uuid: userIdentifier };
        if (ObjectId.isValid(userIdentifier)) {
            filter = { $or: [{ uuid: userIdentifier }, { _id: new
ObjectId(userIdentifier) }] };
        }
    }
}

```

```

    const result = await collection.findOneAndUpdate(
        filter,
        { $set: { name, phone, email, updatedAt: new Date() } },
        { returnDocument: "after", projection: { passwordHash: 0 } }
    );
    if (!result.value) return SendError(res, 404,
EMessage.ErrUpdate);
    return SendSuccess(res, SMessage.Update, result.value);
} catch (err) {
    return SendError(res, 500, EMessage.ServerInternal, err);
}
}

static async deleteUser(req, res) {
    try {
        const userIdentifier = req.params.userID;
        const collection = await usersCollection();

        // ลองหาด้วย uuid ก่อน ถ้าไม่เจอค่อยหาด้วย _id
        let filter = { uuid: userIdentifier };
        if (ObjectId.isValid(userIdentifier)) {
            filter = { $or: [{ uuid: userIdentifier }, { _id: new
ObjectId(userIdentifier) }] };
        }

        const user = await collection.findOne(filter);
        if (!user) return SendError(res, 404, EMessage.NotFound, "user");

        await collection.deleteOne(filter);
        return SendSuccess(res, SMessage.Delete);
    } catch (err) {
        return SendError(res, 500, EMessage.ServerInternal, err);
    }
}

static async RefreshToken(req, res) {
    try {
        const { refreshToken } = req.body;
        if (!refreshToken)
            return SendError(res, 400, EMessage.BadRequest +
"refreshToken");
    }
}

```

```

    const result = await VerifyRefreshToken(refreshToken);
    if (!result) return SendError(res, 404, EMessage.NotFound);

    return SendSuccess(res, SMessage.Update, result);
  } catch (err) {
    return SendError(res, 500, EMessage.ServerInternal, err);
  }
}
}

```

โครงสร้างของ [routes.js](#)

```

import express from "express";
import UserController from "../controllers/user.js";
import { auth } from "../middleware/auth.js";

const router = express.Router();
const user = "/user";

router.get(`${user}/selAll`, /*auth,*/ UserController.SelectAll);
router.get(`${user}/selOne/:userID`, /*auth,*/
UserController.SelectOne); // userID จะเป็น uuid
router.post(`${user}/login`, UserController.Login);
router.post(`${user}/register`, UserController.Register);
router.put(`${user}/refresh`, UserController.RefreshToken);
router.put(`${user}/update/:userID`, /*auth,*/
UserController.updateProfile); // userID จะเป็น uuid
router.delete(`${user}/delete/:userID`, /*auth,*/
UserController.deleteUser); // userID จะเป็น uuid

export default router;

```

ถ้าเรา คอมเม้น auth ดึงข้อมูลได้ แต่พอไม่คอมเม้น auth ดึงไม่ได้

โครงสร้างของ [Service.js](#)

```

import CryptoJS from "crypto-js";
import { PrismaClient } from "@prisma/client";
import { SECRETE_KEY, SECRETE_KEY_REFRESH } from
"../config/globalKey.js";
import { EMessage, SMessage } from "../message.js";

```

```

import jwt from "jsonwebtoken";

const prisma = new PrismaClient();

// Verify Refresh Token
export const VerifyRefreshToken = async (refreshToken) => {
  return new Promise(async (resolve, reject) => {
    try {
      jwt.verify(refreshToken, SECRETE_KEY_REFRESH, async (err, decode)
=> {

        if (err) {
          console.error("JWT verify error:", err);
          return reject("Refresh Token Invalid");
        }

        console.log("Decoded refresh token id:", decode.id);

        // ใช้ uuid ในการหา user
        const user = await prisma.user.findUnique({
          where: { uuid: decode.id },
          select: {
            id: true,
            uuid: true,
            name: true,
            email: true,
            phone: true,
            role: true,
            passport: true,
            addresses: true,
            loyaltyPoints: true
          }
        });

        if (!user) {
          console.error("User not found with uuid:", decode.id);
          return reject("Error Verify Refresh Token");
        }

        const tokens = await GenerateToken(user.uuid); // ใช้ uuid
        return resolve(tokens);
      });
    } catch (error) {
      console.error("VerifyRefreshToken error:", error);
    }
  });
}

```

```

        reject(error);
    }
});
};

// Verify Access Token
export const VerifyToken = async (token) => {
    return new Promise(async (resolve, reject) => {
        try {
            jwt.verify(token, SECRETE_KEY, async (err, decode) => {
                if (err) {
                    console.error("JWT verify error:", err);
                    return reject("Token Invalid");
                }

                console.log("Decoded token id:", decode.id);

                const user = await prisma.user.findUnique({
                    where: { uuid: decode.id }, // ใช้ uuid
                    select: {
                        id: true,
                        uuid: true,
                        name: true,
                        email: true,
                        phone: true,
                        role: true,
                        passport: true,
                        addresses: true,
                        loyaltyPoints: true
                    }
                });

                if (!user) {
                    console.error("User not found with uuid:", decode.id);
                    return reject("Error Verify Token");
                }

                console.log("User found:", user);
                return resolve(user);
            });
        } catch (error) {
            console.error("VerifyToken error:", error);
            reject(error);
        }
    });
};

```

```

    }
  });
};

// Generate Token
export const GenerateToken = async (userUuid) => {
  const payload = { id: userUuid };
  const payload_refresh = { id: userUuid };

  const token = jwt.sign(payload, SECRETE_KEY, { expiresIn: "3h" });
  const refreshToken = jwt.sign(payload_refresh, SECRETE_KEY_REFRESH, {
    expiresIn: "5h",
  });

  return { token, refreshToken };
};

export const FindOneOrder = async (orderId) => {
  return new Promise(async (resolve, reject) => {
    try {
      const data = await prisma.order.findFirst({
        where: { orderId: orderId },
      });
      if (!data) {
        reject(EMessage.NotFound + "order");
      }
      resolve(data);
    } catch (error) {
      console.log(error);
      reject(error);
    }
  });
};

export const FindOneProduct = async (productId) => {
  return new Promise(async (resolve, reject) => {
    try {
      const data = await prisma.product.findFirst({
        where: { productId: productId },
      });
      if (!data) {
        reject(EMessage.NotFound + "product");
      }
    }
  });
};

```

```

        resolve(data);
    } catch (error) {
        console.log(error);
        reject(error);
    }
});
};

export const FindOneEmail = async (email) => {
    return new Promise(async (resolve, reject) => {
        try {
            const data = await prisma.user.findFirst({
                where: { email: email }
            });
            if (!data) {
                reject(EMessage.NotFound + "Email");
            }
            resolve(data);
        } catch (error) {
            console.log(error);
            reject(error);
        }
    });
};

export const CheckEmail = async (email) => {
    return new Promise(async (resolve, reject) => {
        try {
            const data = await prisma.user.findFirst({
                where: { email: email }
            });
            if (data) {
                reject(SMessage.Already);
            }
            resolve(true);
        } catch (error) {
            reject(error);
        }
    });
};

export const Encrypt = async (data) => {
    return CryptoJS.AES.encrypt(data, SECRETE_KEY).toString();
};

```

```
};  
  
export const Decrypt = async (data) => {  
  return CryptoJS.AES.decrypt(data,  
SECRETE_KEY).toString(CryptoJS.enc.Utf8);  
};
```