

DB Design & Implementation

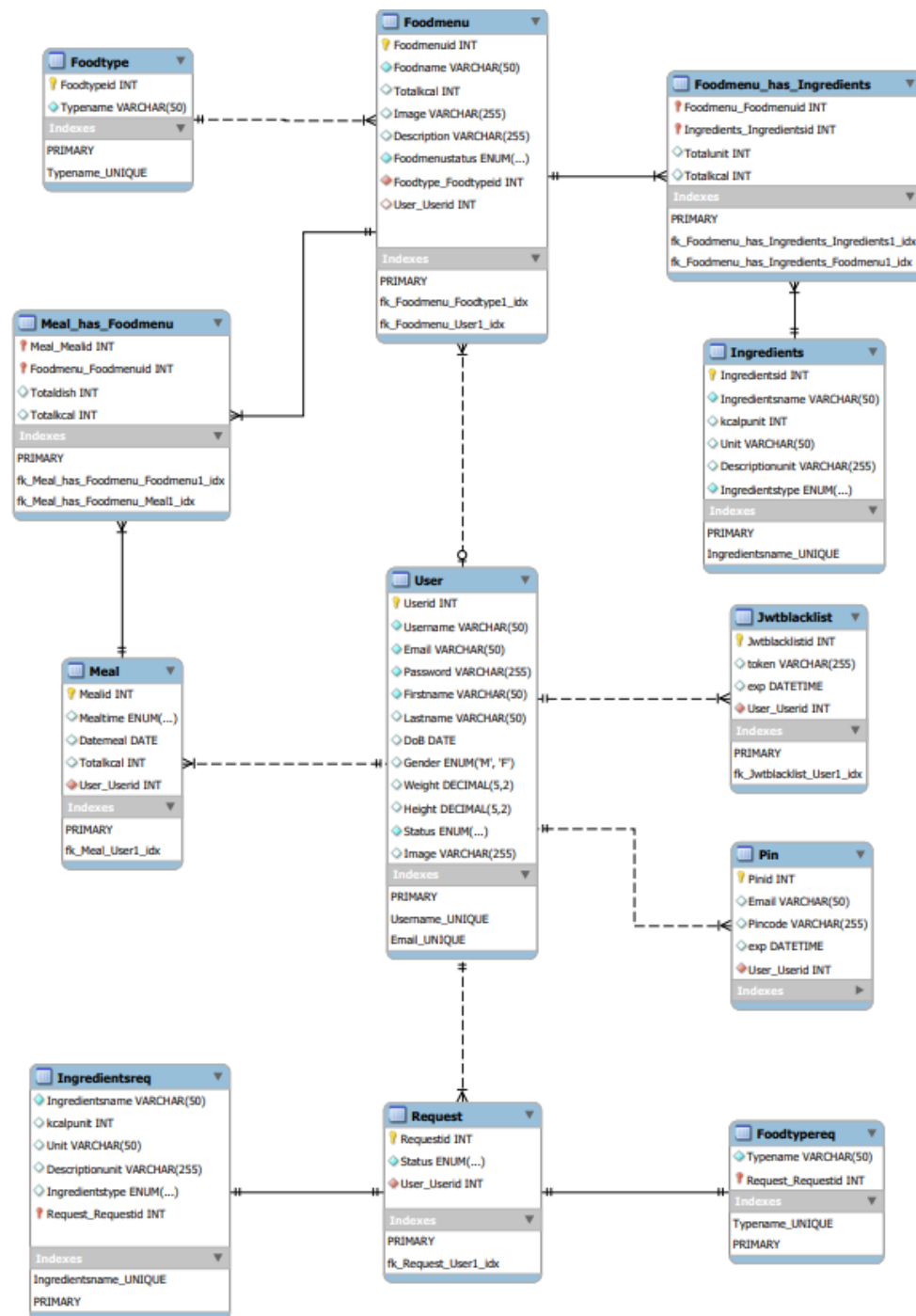
รหัสกลุ่มโครงการ: 62130500013

ชื่อโครงการ: CFAN

ผลิตภัณฑ์ DBMS ที่เลือกใช้: MySQL latest

Conceptual Design (ER Diagram)

Logical Design (Implementation Design)



คำอธิบายแผนภาพ Logical Design

- ตาราง Foodtype เก็บข้อมูลประเภทอาหาร
 - เก็บข้อมูลประเภทอาหาร เช่น
- ตาราง Foodmenu เก็บข้อมูลเมนูอาหาร

- เก็บข้อมูลเมนูอาหาร เช่น
- 3. ตาราง Meal เก็บข้อมูลมื้ออาหาร
 - เก็บข้อมูลมื้ออาหาร เช่น
- 4. ตาราง Ingredients เก็บข้อมูลวัตถุดิบ
 - เก็บข้อมูลวัตถุดิบ
- 5. ตาราง User เก็บข้อมูลผู้ใช้
 - เก็บข้อมูลผู้ใช้
- 6. ตาราง Jwtblacklist เก็บ Json web token
- 7. ตาราง Pin เก็บรหัส OTP
- 8. ตาราง Request เก็บ request
- 9. ตาราง Foodtypereq เก็บประเภทอาหารที่รับมาจาก request
- 10. ตาราง Ingredientreq เก็บวัตถุดิบที่รับมาจาก request

Data Dictionary

ตาราง:Foodtype

Column	Data_type	Constraint	Description
Foodtypeid	INT	PK	รหัสประเภทอาหาร
Typename	VARCHAR	not null	ชื่อประเภทอาหาร

ตาราง:Foodmenu

Column	Data_type	Constraint	Description
Foodmenuid	INT	PK	รหัสอาหาร
Foodname	VARCHAR	not null	ชื่ออาหาร
Totalkcal	INT	null	kcal รวมของอาหาร 1 จาน
Image	VARCHAR	null	รูป
Description	VARCHAR	null	คำอธิบาย
Foodmenustatus	ENUM	not null	สถานะอาหาร
Foodtype_Foodtypeid	INT	FK,not null	รหัสประเภทอาหาร
User_Userid	INT	FK,null	รหัสผู้ใ้

ตาราง:Meal

Column	Data_type	Constraint	Description
Mealid	INT	PK	รหัสมื้ออาหาร
Mealtime	ENUM	null	มื้ออาหาร

Datemeal	DATE	null	วันที่ของมื้ออาหาร
Totalkcal	INT	null	kcal รวมของมื้ออาหาร
User_Userid	INT	FK,not null	รหัสผู้ใช้

ตาราง:Ingredients

Column	Data_type	Constraint	Description
Ingredientsid	INT	PK	รหัสวัตถุดิบ
Ingredientsname	VARCHAR	not null	ชื่อวัตถุดิบ
kcalpunit	INT	null	kcal ต่อ unit
Unit	VARCHAR	null	หน่วย
Descriptionunit	VARCHAR	null	คำอธิบายหน่วย
Ingredientstype	ENUM	not null	ประเภทวัตถุดิบ

ตาราง:User

Column	Data_type	Constraint	Description
Userid	INT	PK	รหัสผู้ใช้
Username	VARCHAR	not null	ชื่อผู้ใช้
Email	VARCHAR	not null	email
Password	VARCHAR	not null	password
Firstname	VARCHAR	not null	ชื่อ

Lastname	VARCHAR	null	นามสกุล
DoB	DATE	null	วันเกิด
Gender	ENUM	null	เพศ
Weight	DECIMAL	null	น้ำหนัก
Height	DECIMAL	null	ส่วนสูง
Status	ENUM	not null	สถานะ
Image	VARCHAR	null	รูป

ตาราง:Jwtblacklist

Column	Data_type	Constraint	Description
Jwtblacklistid	INT	PK	รหัส jwt
token	VARCHAR	null	token
exp	DATETIME	null	วันหมดอายุ
User_Userid	INT	FK,not null	รหัสผู้ใช้

ตาราง:Pin

Column	Data_type	Constraint	Description
Pinid	INT	PK	รหัส pin
Email	VARCHAR	null	email
Pincode	VARCHAR	null	pincode
exp	DATETIME	null	วันหมดอายุ

User_Userid	INT	FK,not null	รหัสผู้ใช้
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ตาราง:Request

Column	Data_type	Constraint	Description
Requestid	INT	PK	รหัส request
Status	ENUM	not null	สถานะ request
User_Userid	INT	FK,not null	รหัสผู้ใช้

ตาราง:Foodtypereq

Column	Data_type	Constraint	Description
Ingredientsname	VARCHAR	not null	ชื่อวัตถุดิบ
kcalpunit	INT	null	kcal ต่อ unit
Unit	VARCHAR	null	หน่วย
Descriptionunit	VARCHAR	null	อธิบายหน่วย
Ingredientstype	ENUM	null	ประเภทวัตถุดิบ
Request_Requestid	INT	FK,not null	รหัส request

ตาราง:Ingredientreq

Column	Data_type	Constraint	Description
Typename	VARCHAR	not null	ชื่อประเภทวัตถุดิบ
Request_Requestid	INT	FK,not null	รหัส request

Script file: https://github.com/INT222-13-49-129/INT222_Integrated_Project_Database/blob/master/scripts/cfan.sql or

```
-- MySQL dump 10.13 Distrib 8.0.25, for Win64 (x86_64)

--

-- Host: 127.0.0.1 Database: cfandb

-- -----

-- Server version      8.0.25


/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;

/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;

/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;

/*!50503 SET NAMES utf8 */;

/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;

/*!40103 SET TIME_ZONE='+00:00' */;

/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;

/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;

/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO'
*/;

/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--

-- Table structure for table `foodmenu`
```


--

```
DROP TABLE IF EXISTS `foodmenu`;
```

```
/*!40101 SET @saved_cs_client      = @@character_set_client */;
```

```
/*!50503 SET character_set_client = utf8mb4 */;
```

```
CREATE TABLE `foodmenu` (
```

```
  `Foodmenuid` int NOT NULL AUTO_INCREMENT,
```

```
  `Foodname` varchar(50) NOT NULL,
```

```
  `Totalkcal` int DEFAULT NULL,
```

```
  `Image` varchar(255) DEFAULT NULL,
```

```
  `Description` varchar(255) DEFAULT NULL,
```

```
  `Foodmenustatus` enum('PUBLISH','PERSONAL') NOT NULL DEFAULT 'PERSONAL',
```

```
  `Foodtype_Foodtypeid` int NOT NULL,
```

```
  `User_Userid` int DEFAULT NULL,
```

```
  PRIMARY KEY (`Foodmenuid`),
```

```
  KEY `fk_Foodmenu_Foodtype1_idx` (`Foodtype_Foodtypeid`),
```

```
  KEY `fk_Foodmenu_User1_idx` (`User_Userid`),
```

```
  CONSTRAINT `fk_Foodmenu_Foodtype1` FOREIGN KEY (`Foodtype_Foodtypeid`)
```

```
REFERENCES `foodtype` (`Foodtypeid`),
```

```
  CONSTRAINT `fk_Foodmenu_User1` FOREIGN KEY (`User_Userid`) REFERENCES `user`
```

```
  (`Userid`)
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;
```

```
/*!40101 SET character_set_client = @saved_cs_client */;
```

--

-- Dumping data for table `foodmenu`

--

LOCK TABLES `foodmenu` WRITE;

/*!40000 ALTER TABLE `foodmenu` DISABLE KEYS */;

/*!40000 ALTER TABLE `foodmenu` ENABLE KEYS */;

UNLOCK TABLES;

--

-- Table structure for table `foodmenu_has_ingredients`

--

DROP TABLE IF EXISTS `foodmenu_has_ingredients`;

/*!40101 SET @saved_cs_client = @@character_set_client */;

/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `foodmenu_has_ingredients` (

 `Foodmenu_Foodmenuid` int NOT NULL,

 `Ingredients_Ingredientsid` int NOT NULL,

 `Totalunit` int DEFAULT NULL,

 `Totalkcal` int DEFAULT NULL,

 PRIMARY KEY (`Foodmenu_Foodmenuid`,`Ingredients_Ingredientsid`),

```

KEY `fk_Foodmenu_has_Ingredients_Ingredients1_idx` (`Ingredients_Ingredientsid`),

KEY `fk_Foodmenu_has_Ingredients_Foodmenu1_idx` (`Foodmenu_Foodmenuid`),

CONSTRAINT `fk_Foodmenu_has_Ingredients_Foodmenu1` FOREIGN KEY
(`Foodmenu_Foodmenuid`) REFERENCES `foodmenu` (`Foodmenuid`),

CONSTRAINT `fk_Foodmenu_has_Ingredients_Ingredients1` FOREIGN KEY
(`Ingredients_Ingredientsid`) REFERENCES `ingredients` (`Ingredientsid`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;

/*!40101 SET character_set_client = @saved_cs_client */;

--

-- Dumping data for table `foodmenu_has_ingredients`

--

LOCK TABLES `foodmenu_has_ingredients` WRITE;

/*!40000 ALTER TABLE `foodmenu_has_ingredients` DISABLE KEYS */;

/*!40000 ALTER TABLE `foodmenu_has_ingredients` ENABLE KEYS */;

UNLOCK TABLES;

--

-- Table structure for table `foodtype`

--

DROP TABLE IF EXISTS `foodtype`;

```

```
/*!40101 SET @saved_cs_client      = @@character_set_client */;
```

```
/*!50503 SET character_set_client = utf8mb4 */;
```

```
CREATE TABLE `foodtype` (
```

```
  `Foodtypeid` int NOT NULL AUTO_INCREMENT,
```

```
  `Typename` varchar(50) NOT NULL,
```

```
  PRIMARY KEY (`Foodtypeid`),
```

```
  UNIQUE KEY `Typename_UNIQUE` (`Typename`)
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;
```

```
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--
```

```
-- Dumping data for table `foodtype`
```

```
--
```

```
LOCK TABLES `foodtype` WRITE;
```

```
/*!40000 ALTER TABLE `foodtype` DISABLE KEYS */;
```

```
/*!40000 ALTER TABLE `foodtype` ENABLE KEYS */;
```

```
UNLOCK TABLES;
```

```
--
```

```
-- Table structure for table `foodtypereq`
```

```
--
```

```

DROP TABLE IF EXISTS `foodtypereq`;

/*!40101 SET @saved_cs_client      = @@character_set_client */;

/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `foodtypereq` (

  `Typename` varchar(50) NOT NULL,

  `Request_Requestid` int NOT NULL,

  PRIMARY KEY (`Request_Requestid`),

  CONSTRAINT `fk_Foodtype_req_Request1` FOREIGN KEY (`Request_Requestid`) REFERENCES

`request` (`Requestid`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;

/*!40101 SET character_set_client = @saved_cs_client */;

--

-- Dumping data for table `foodtypereq`

--

LOCK TABLES `foodtypereq` WRITE;

/*!40000 ALTER TABLE `foodtypereq` DISABLE KEYS */;

/*!40000 ALTER TABLE `foodtypereq` ENABLE KEYS */;

UNLOCK TABLES;

--

-- Table structure for table `ingredients`

```

--

DROP TABLE IF EXISTS `ingredients`;

/*!40101 SET @saved_cs_client = @@character_set_client */;

/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `ingredients` (

`Ingredientsid` int NOT NULL AUTO_INCREMENT,

`Ingredientsname` varchar(50) NOT NULL,

`kcalpunit` int DEFAULT NULL,

`Unit` varchar(50) DEFAULT NULL,

`Descriptionunit` varchar(255) DEFAULT NULL,

`Ingredientstype` enum('Oil','Carb','Meat','Vegetable','Fruit','Condiment') NOT NULL,

PRIMARY KEY (`Ingredientsid`),

UNIQUE KEY `Ingredientsname_UNIQUE` (`Ingredientsname`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;

/*!40101 SET character_set_client = @saved_cs_client */;

--

-- Dumping data for table `ingredients`

--

LOCK TABLES `ingredients` WRITE;

/*!40000 ALTER TABLE `ingredients` DISABLE KEYS */;

```
/*!40000 ALTER TABLE `ingredients` ENABLE KEYS */;
```

```
UNLOCK TABLES;
```

```
--
```

```
-- Table structure for table `ingredientsreq`
```

```
--
```

```
DROP TABLE IF EXISTS `ingredientsreq`;
```

```
/*!40101 SET @saved_cs_client = @@character_set_client */;
```

```
/*!50503 SET character_set_client = utf8mb4 */;
```

```
CREATE TABLE `ingredientsreq` (
```

```
  `Ingredientsname` varchar(50) NOT NULL,
```

```
  `kcalpunit` int DEFAULT NULL,
```

```
  `Unit` varchar(50) DEFAULT NULL,
```

```
  `Descriptionunit` varchar(255) DEFAULT NULL,
```

```
  `Ingredientstype` enum('Oil','Carb','Meat','Vegetable','Fruit','Condiment') DEFAULT NULL,
```

```
  `Request_Requestid` int NOT NULL,
```

```
  PRIMARY KEY (`Request_Requestid`),
```

```
  CONSTRAINT `fk_Ingredientsreq_Request1` FOREIGN KEY (`Request_Requestid`) REFERENCES  
  `request` (`Requestid`)
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;
```

```
/*!40101 SET character_set_client = @saved_cs_client */;
```

--

-- Dumping data for table `ingredientsreq`

--

LOCK TABLES `ingredientsreq` WRITE;

/*!40000 ALTER TABLE `ingredientsreq` DISABLE KEYS */;

/*!40000 ALTER TABLE `ingredientsreq` ENABLE KEYS */;

UNLOCK TABLES;

--

-- Table structure for table `jwtblacklist`

--

DROP TABLE IF EXISTS `jwtblacklist`;

/*!40101 SET @saved_cs_client = @@character_set_client */;

/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `jwtblacklist` (

 `Jwtblacklistid` int NOT NULL AUTO_INCREMENT,

 `token` varchar(255) DEFAULT NULL,

 `exp` datetime DEFAULT NULL,

 `User_Userid` int NOT NULL,

 PRIMARY KEY (`Jwtblacklistid`),

 KEY `fk_Jwtblacklist_User1_idx` (`User_Userid`),


```
    CONSTRAINT `fk_Jwtblacklist_User1` FOREIGN KEY (`User_Userid`) REFERENCES `user`  
    (`Userid`)
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;
```

```
/*!40101 SET character_set_client = @saved_cs_client */;
```

```
--
```

```
-- Dumping data for table `jwtblacklist`
```

```
--
```

```
LOCK TABLES `jwtblacklist` WRITE;
```

```
/*!40000 ALTER TABLE `jwtblacklist` DISABLE KEYS */;
```

```
/*!40000 ALTER TABLE `jwtblacklist` ENABLE KEYS */;
```

```
UNLOCK TABLES;
```

```
--
```

```
-- Table structure for table `meal`
```

```
--
```

```
DROP TABLE IF EXISTS `meal`;
```

```
/*!40101 SET @saved_cs_client      = @@character_set_client */;
```

```
/*!50503 SET character_set_client = utf8mb4 */;
```

```
CREATE TABLE `meal` (
```

```
    `Mealid` int NOT NULL AUTO_INCREMENT,
```

```

`Mealtime` enum('Breakfast','Lunch','Dinner','Lightmeal') DEFAULT NULL,

`Datemeal` date DEFAULT NULL,

`Totalkcal` int DEFAULT NULL,

`User_Userid` int NOT NULL,

PRIMARY KEY (`Mealid`),

KEY `fk_Meal_User1_idx` (`User_Userid`),

CONSTRAINT `fk_Meal_User1` FOREIGN KEY (`User_Userid`) REFERENCES `user` (`Userid`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;

/*!40101 SET character_set_client = @saved_cs_client */;

--

-- Dumping data for table `meal`

--

LOCK TABLES `meal` WRITE;

/*!40000 ALTER TABLE `meal` DISABLE KEYS */;

/*!40000 ALTER TABLE `meal` ENABLE KEYS */;

UNLOCK TABLES;

--

-- Table structure for table `meal_has_foodmenu`

--

```

```

DROP TABLE IF EXISTS `meal_has_foodmenu`;

/*!40101 SET @saved_cs_client      = @@character_set_client */;

/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `meal_has_foodmenu` (

  `Meal_Mealid` int NOT NULL,

  `Foodmenu_Foodmenuid` int NOT NULL,

  `Totaldish` int DEFAULT NULL,

  `Totalkcal` int DEFAULT NULL,

  PRIMARY KEY (`Meal_Mealid`,`Foodmenu_Foodmenuid`),

  KEY `fk_Meal_has_Foodmenu_Foodmenu1_idx` (`Foodmenu_Foodmenuid`),

  KEY `fk_Meal_has_Foodmenu_Meal1_idx` (`Meal_Mealid`),

  CONSTRAINT `fk_Meal_has_Foodmenu_Foodmenu1` FOREIGN KEY

(`Foodmenu_Foodmenuid`) REFERENCES `foodmenu` (`Foodmenuid`),

  CONSTRAINT `fk_Meal_has_Foodmenu_Meal1` FOREIGN KEY (`Meal_Mealid`) REFERENCES

`meal` (`Mealid`)

) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;

/*!40101 SET character_set_client = @saved_cs_client */;

--

-- Dumping data for table `meal_has_foodmenu`

--

LOCK TABLES `meal_has_foodmenu` WRITE;

```

```

/*!40000 ALTER TABLE `meal_has_foodmenu` DISABLE KEYS */;

/*!40000 ALTER TABLE `meal_has_foodmenu` ENABLE KEYS */;

UNLOCK TABLES;

--

-- Table structure for table `pin`

--

DROP TABLE IF EXISTS `pin`;

/*!40101 SET @saved_cs_client      = @@character_set_client */;

/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `pin` (

  `Pinid` int NOT NULL AUTO_INCREMENT,

  `Email` varchar(50) DEFAULT NULL,

  `Pincode` varchar(255) DEFAULT NULL,

  `exp` datetime DEFAULT NULL,

  `User_Userid` int NOT NULL,

  PRIMARY KEY (`Pinid`),

  KEY `fk_Pin_User1_idx` (`User_Userid`),

  CONSTRAINT `fk_Pin_User1` FOREIGN KEY (`User_Userid`) REFERENCES `user` (`Userid`)

) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8mb3;

/*!40101 SET character_set_client = @saved_cs_client */;

```

--

-- Dumping data for table `pin`

--

LOCK TABLES `pin` WRITE;

/*!40000 ALTER TABLE `pin` DISABLE KEYS */;

/*!40000 ALTER TABLE `pin` ENABLE KEYS */;

UNLOCK TABLES;

--

-- Table structure for table `request`

--

DROP TABLE IF EXISTS `request`;

/*!40101 SET @saved_cs_client = @@character_set_client */;

/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `request` (

 `Requestid` int NOT NULL AUTO_INCREMENT,

 `Status` enum('WAIT','APPROVE','DISAPPROVED') NOT NULL DEFAULT 'WAIT',

 `User_Userid` int NOT NULL,

 PRIMARY KEY (`Requestid`),

 KEY `fk_Request_User1_idx` (`User_Userid`),

 CONSTRAINT `fk_Request_User1` FOREIGN KEY (`User_Userid`) REFERENCES `user` (`Userid`)

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3;

/*!40101 SET character_set_client = @saved_cs_client */;

--

-- Dumping data for table `request`

--

LOCK TABLES `request` WRITE;

/*!40000 ALTER TABLE `request` DISABLE KEYS */;

/*!40000 ALTER TABLE `request` ENABLE KEYS */;

UNLOCK TABLES;

--

-- Table structure for table `user`

--

DROP TABLE IF EXISTS `user`;

/*!40101 SET @saved_cs_client      = @@character_set_client */;

/*!50503 SET character_set_client = utf8mb4 */;

CREATE TABLE `user` (

  `Userid` int NOT NULL AUTO_INCREMENT,

  `Username` varchar(50) NOT NULL,

  `Email` varchar(50) NOT NULL,
```

```
`Password` varchar(255) NOT NULL,

`Firstname` varchar(50) NOT NULL,

`Lastname` varchar(50) DEFAULT NULL,

`DoB` date DEFAULT NULL,

`Gender` enum('M','F') DEFAULT NULL,

`Weight` decimal(5,2) DEFAULT NULL,

`Height` decimal(5,2) DEFAULT NULL,

`Status` enum('TBC','NORMAL','ADMIN') NOT NULL DEFAULT 'TBC',

`Image` varchar(255) DEFAULT NULL,

PRIMARY KEY (`Userid`),

UNIQUE KEY `Username_UNIQUE` (`Username`),

UNIQUE KEY `Email_UNIQUE` (`Email`)

) ENGINE=InnoDB AUTO_INCREMENT=2 DEFAULT CHARSET=utf8mb3;

/*!40101 SET character_set_client = @saved_cs_client */;

--

-- Dumping data for table `user`

--

LOCK TABLES `user` WRITE;

/*!40000 ALTER TABLE `user` DISABLE KEYS */;
```

```
INSERT INTO `user` VALUES
(1,'cfanint222test','cfanint222test@gmail.com','$2a$10$Kpn1K7Vu6PsVpPtRQ2hmNOHhafilkokR
b2fIMJCxxpsxpdxQADp.K','cfanint222','test','2000-01-01','M',50.00,180.00,'ADMIN',NULL);

/*!40000 ALTER TABLE `user` ENABLE KEYS */;

UNLOCK TABLES;

/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;

/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;

/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;

/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;

/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;

/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;

-- Dump completed on 2021-10-19 20:07:16
```