sudo apt install nodejs -y

sudo apt install npm -y

mkdir fitbit && cd fitbit/

npm init -y

npm install --save express

npm install --save morgan

npm install --save body-parser

npm install --save jsonwebtoken

npm install --save bcrypt

npm install --save dotenv

npm install --save js-cookie

npm install --save jwt-decode

npm install --save base64url

npm install --save axios

npm install --save react-router-dom

npm install --save react-icons

npm install --save node-cron

npm install --save react-calendar

npm install --save @fortawesome/react-fontawesome @fortawesome/free-solid-svg-icons

npm install --save [mysql2@3.0.0](mailto:mysql2@3.0.0)

sudo apt-get update && sudo apt-get install -y ca-certificates curl gnupg

curl -fsSL https://deb.nodesource.com/gpgkey/nodesource-repo.gpg.key | sudo gpg --dearmor -o /etc/apt/keyrings/nodesource.gpg

NODE\_MAJOR=20

echo "deb [signed-by=/etc/apt/keyrings/nodesource.gpg] https://deb.nodesource.com/node\_$NODE\_MAJOR.x nodistro main" | sudo tee /etc/apt/sources.list.d/nodesource.list

sudo apt-get update && sudo apt-get install nodejs -y

**Database - MySQL**

sudo apt install mysql-server

sudo mysql -e "ALTER USER 'root'@'localhost' IDENTIFIED BY 'th15is@c0mpl3xP@s5w0rd8835';"

sudo mysql -e "DELETE FROM mysql.user WHERE User='root' AND Host NOT IN ('localhost', '127.0.0.1', '::1');"

sudo mysql -e "rename user 'root'@'localhost' to 'adminPrivDatabase892'@'localhost';"

sudo mysql -e "DELETE FROM mysql.user WHERE user='';"

sudo mysql -e "DELETE FROM mysql.db WHERE Db='test' OR Db='test\\\_%';"

sudo mysql -e "FLUSH PRIVILEGES;"

**<CREATE FITBIT DATABASE FIRST BEFORE PROVIDING WITH THE NEXT STEP>**

sudo mysql -e "CREATE USER 'FitbitDB'@'127.0.0.1' IDENTIFIED BY 'f1tbiitDatab@s3\_pr0duct10on!SAF735';"

sudo mysql -e "CREATE USER 'FitbitDB'@'%' IDENTIFIED BY 'f1tbiitDatab@s3\_pr0duct10on!SAF735';"

**<CHANGE “%” TO A SPECIFC IP THE DEVICE CAN CONNECT TO THE DATABASE FROM>**

sudo mysql -e "GRANT SELECT,UPDATE,INSERT,DELETE ON fitbit.\* TO 'FitbitDB'@'127.0.0.1';"

sudo mysql -e "GRANT SELECT,UPDATE,INSERT,DELETE ON fitbit.\* TO 'FitbitDB'@'%';"

sudo mysql -e "FLUSH PRIVILEGES;"

**Create Database**

**SET @OLD\_UNIQUE\_CHECKS=@@UNIQUE\_CHECKS, UNIQUE\_CHECKS=0;**

**SET @OLD\_FOREIGN\_KEY\_CHECKS=@@FOREIGN\_KEY\_CHECKS, FOREIGN\_KEY\_CHECKS=0;**

**SET @OLD\_SQL\_MODE=@@SQL\_MODE, SQL\_MODE='ONLY\_FULL\_GROUP\_BY,STRICT\_TRANS\_TABLES,NO\_ZERO\_IN\_DATE,NO\_ZERO\_DATE,ERROR\_FOR\_DIVISION\_BY\_ZERO,NO\_ENGINE\_SUBSTITUTION';**

**-- -----------------------------------------------------**

**-- Schema fitbit**

**-- -----------------------------------------------------**

**-- -----------------------------------------------------**

**-- Schema fitbit**

**-- -----------------------------------------------------**

**CREATE SCHEMA IF NOT EXISTS `fitbit` DEFAULT CHARACTER SET utf8mb3 ;**

**USE `fitbit` ;**

**-- -----------------------------------------------------**

**-- Table `fitbit`.`company`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `fitbit`.`company` (**

**`companyID` VARCHAR(25) NOT NULL,**

**`companyPass` VARCHAR(75) NOT NULL,**

**`tokenExpiry` DATE NOT NULL,**

**`loginExpiry` DATE NOT NULL,**

**`batchType` VARCHAR(4) NOT NULL,**

**PRIMARY KEY (`companyID`))**

**ENGINE = InnoDB**

**DEFAULT CHARACTER SET = utf8mb3;**

**-- -----------------------------------------------------**

**-- Table `fitbit`.`user`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `fitbit`.`user` (**

**`userName` VARCHAR(45) NOT NULL,**

**`userType` INT NOT NULL,**

**`userPass` VARCHAR(75) NOT NULL,**

**`pinAttempt` INT NOT NULL,**

**`adminPass` VARCHAR(75) NULL DEFAULT NULL,**

**`companyID` VARCHAR(25) NOT NULL,**

**PRIMARY KEY (`userName`, `companyID`),**

**INDEX `fk\_user\_company\_idx` (`companyID` ASC) VISIBLE,**

**CONSTRAINT `fk\_user\_company`**

**FOREIGN KEY (`companyID`)**

**REFERENCES `fitbit`.`company` (`companyID`))**

**ENGINE = InnoDB**

**DEFAULT CHARACTER SET = utf8mb3;**

**-- -----------------------------------------------------**

**-- Table `fitbit`.`blacklist`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `fitbit`.`blacklist` (**

**`blacklistID` VARCHAR(45) NOT NULL,**

**`userName` VARCHAR(45) NOT NULL,**

**PRIMARY KEY (`blacklistID`),**

**INDEX `fk\_blacklist\_user1\_idx` (`userName` ASC) VISIBLE,**

**CONSTRAINT `fk\_blacklist\_user1`**

**FOREIGN KEY (`userName`)**

**REFERENCES `fitbit`.`user` (`userName`))**

**ENGINE = InnoDB**

**DEFAULT CHARACTER SET = utf8mb3;**

**-- -----------------------------------------------------**

**-- Table `fitbit`.`recruits`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `fitbit`.`recruits` (**

**`recruitID` VARCHAR(25) NOT NULL,**

**`name` VARCHAR(45) NULL DEFAULT NULL,**

**`4DNumber` VARCHAR(4) NOT NULL,**

**`accessToken` VARCHAR(500) NOT NULL,**

**`refreshToken` VARCHAR(200) NOT NULL,**

**`companyID` VARCHAR(25) NOT NULL,**

**PRIMARY KEY (`recruitID`, `companyID`),**

**INDEX `fk\_recruits\_company1\_idx` (`companyID` ASC) VISIBLE,**

**CONSTRAINT `fk\_recruits\_company1`**

**FOREIGN KEY (`companyID`)**

**REFERENCES `fitbit`.`company` (`companyID`))**

**ENGINE = InnoDB**

**DEFAULT CHARACTER SET = utf8mb3;**

**-- -----------------------------------------------------**

**-- Table `fitbit`.`data`**

**-- -----------------------------------------------------**

**CREATE TABLE IF NOT EXISTS `fitbit`.`data` (**

**`dataID` INT NOT NULL AUTO\_INCREMENT,**

**`date` DATE NOT NULL,**

**`steps` VARCHAR(45) NULL,**

**`calories` VARCHAR(45) NULL,**

**`distance` VARCHAR(45) NULL,**

**`vO2` VARCHAR(45) NULL,**

**`sleep` JSON NULL,**

**`heartRate` JSON NULL,**

**`activity` JSON NULL,**

**`recruitID` VARCHAR(25) NOT NULL,**

**PRIMARY KEY (`dataID`),**

**INDEX `fk\_data\_recruits1\_idx` (`recruitID` ASC) VISIBLE,**

**CONSTRAINT `fk\_data\_recruits1`**

**FOREIGN KEY (`recruitID`)**

**REFERENCES `fitbit`.`recruits` (`recruitID`)**

**ON DELETE NO ACTION**

**ON UPDATE NO ACTION)**

**ENGINE = InnoDB;**

**SET SQL\_MODE=@OLD\_SQL\_MODE;**

**SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS;**

**SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS;**