



MINI PROJECT 3 API CRUD

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USER REQUIREMENT

- To process CRUD for users, consultants, and clients' tables in MySQL.

PHYSICAL SCHEME –USERS TABLE

```
CREATE TABLE `users` ( `userId` int NOT NULL AUTO_INCREMENT, `email` varchar(255)  
NOT NULL, `password` varchar(255) DEFAULT NULL, `createdAt` datetime DEFAULT  
CURRENT_TIMESTAMP, `updatedAt` datetime DEFAULT CURRENT_TIMESTAMP ON  
UPDATE CURRENT_TIMESTAMP, PRIMARY KEY (`userId`), UNIQUE KEY `email` (`email`))  
ENGINE=InnoDB AUTO_INCREMENT=3 DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_0900_ai_ci;
```

PHYSICAL SCHEME –CONSULTANTS TABLE

```
CREATE TABLE `consultants` ( `consultantId` int NOT NULL AUTO_INCREMENT, `name`  
varchar(255) NOT NULL, `createdAt` datetime DEFAULT CURRENT_TIMESTAMP, `updatedAt`  
datetime DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP, PRIMARY  
KEY (`consultantId`)) ENGINE=InnoDB AUTO_INCREMENT=21 DEFAULT CHARSET=utf8mb4  
COLLATE=utf8mb4_0900_ai_ci;
```

PHYSICAL SCHEME – CLIENTS TABLE

```
CREATE TABLE `clients` ( `clientId` int NOT NULL AUTO_INCREMENT, `name`  
varchar(255) NOT NULL, `email` varchar(255) NOT NULL, `createdAt` datetime DEFAULT  
CURRENT_TIMESTAMP, `updatedAt` datetime DEFAULT CURRENT_TIMESTAMP ON  
UPDATE CURRENT_TIMESTAMP, PRIMARY KEY (`clientId`)) ENGINE=InnoDB  
AUTO_INCREMENT=2 DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci;
```

TECHNOLOGY USED

1. MySQL
2. Express and the sequelize library
3. dotenv
4. JWT
5. Bcrypt
6. Postman (for API tests)
7. Node.js

LIBRARY IN USE

1. Sequelize ORM:

- *Datatype*
- *Sequelize.define*
- *Sequelize.sync*

2. Dotenv:

- *.env file*

3. Jsonwebtoken

4. Bcrypt

- *Bcrypt.hash*
- *Bcrypt.compare*

END

This presentation has been formulated carefully. It contained valid explanations for the related app and database. However, further use of any of the files/folders/codes must be with the acknowledgement and guidance of the creator.