

WATER MANAGEMENT SYSTEM

SCHEMA:

Below is the Schema for the relational database, which has two tables namely "User" and "Consumption".

'UserID' column in the "Consumption" table is a foreign key that references the 'UserID' column in the "Users" table.

```
CREATE TABLE Users (  
    HouseNO INT PRIMARY KEY,  
    UserName VARCHAR(50),  
    PhoneNumber VARCHAR(20),  
    HeadCount INT,  
    Email VARCHAR(100),  
    PasswordHash VARCHAR(255)  
);
```

```
CREATE TABLE Consumption (  
    HouseNO INT,  
    Quantity INT,  
    FromTime TIME,  
    ToTime TIME,  
    Date DATE,  
    FOREIGN KEY (HouseNO) REFERENCES Users(HouseNO)  
);
```

```
CREATE TABLE Users (
  HouseNO INT PRIMARY KEY,
  UserName VARCHAR(50),
  PhoneNumber VARCHAR(20),
  HeadCount INT,
  Email VARCHAR(100),
  PasswordHash VARCHAR(255)
);
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```
CREATE TABLE Consumption (
  HouseNO INT,
  Quantity INT,
  FromTime TIME,
  ToTime TIME,
  Date DATE,
  FOREIGN KEY (HouseNO) REFERENCES
  Users(HouseNO)
);
```

ARCHITECTURE:

