

Table Descriptions

User table, this table will be hard coded as it comes from TechNet. The school will be in charge of connecting that if the site were to ever go live.

User table

Name	Type
<u>userID</u>	bigInt, key
userFName	varchar(32)
userLName	varchar(32)
userPassword	varchar(255)
userSalt	varchar(255)
<i>userDept</i>	Int, foreign key
userPrivilege	int

Department table, this table will be hard coded as well since it comes from TechNet. The school will be in charge connecting that if the site were to ever go live. Department is chosen based on the professor's department that they teach in or the student (lab monitor) degree.

Department Table

Name	Type
<u>deptID</u>	Bigint, key
deptName	varchar(32)

Lab Table

Lab table that is modifiable by admins.

Name	Type
<u>labID</u>	Bigint, key
labName	varchar(32)
labRoom	varchar(16)
<i>deptHead</i>	BigInt, foreignkey
<i>deptID</i>	Bigint, foreignkey

Log Table

Log table that is able to be downloaded via dept head login, or can be reported on via the lab monitor login.

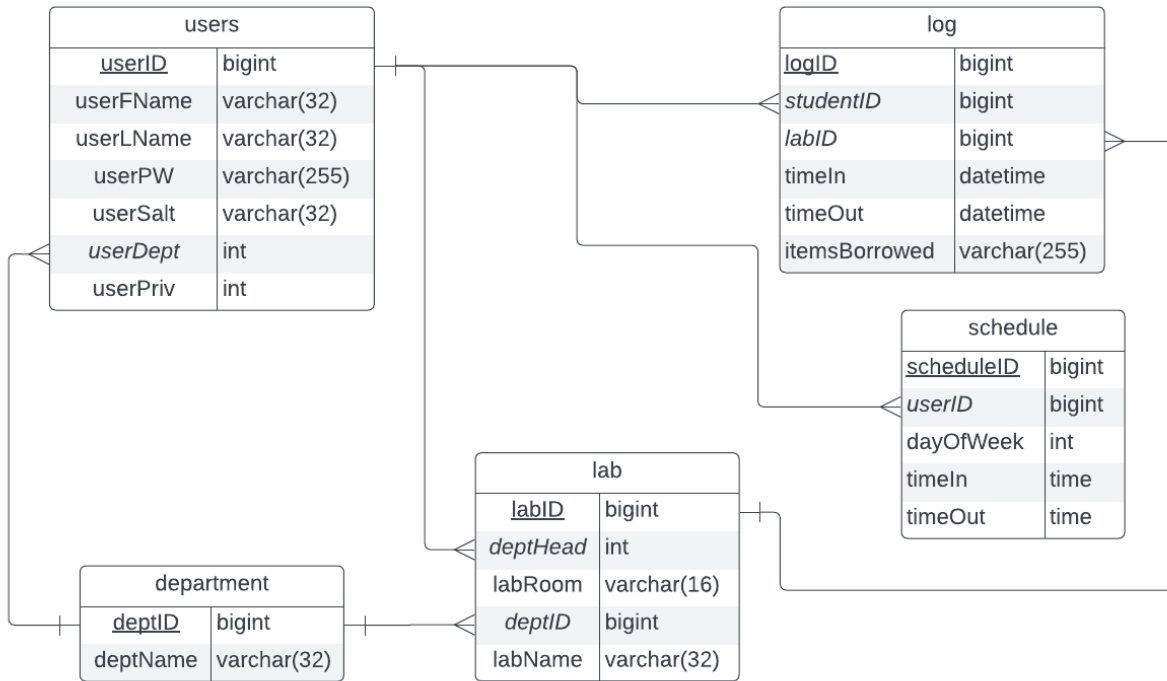
Name	Type
<u>logID</u>	Bigint, key
<i>studentID</i>	Bigint, foreign key
<i>deptID</i>	Bigint, foreign key
timeIn	datetime
timeOut	datetime
itemsBorrowed	varchar(255)

Schedule Table

Name	Type
<u>schedule_ID</u>	Bigint, key
<i>student_ID</i>	Bigint, foreign key
<i>dept_ID</i>	Bigint, foreign key
text_Schedule	text

ERD

underlined is primary key
italicized is foreign key



SQL Functions

USER TABLE

```
CREATE TABLE IF NOT EXISTS users (  
    userID BIGINT UNSIGNED AUTO_INCREMENT NOT NULL PRIMARY KEY,  
    userFName VARCHAR(32) NOT NULL,  
    userLName VARCHAR(32) NOT NULL,  
    userPassword VARCHAR(255) NOT NULL,  
    userSalt VARCHAR(255) NOT NULL,  
    userDept BIGINT UNSIGNED DEFAULT NULL FOREIGN KEY REFERENCES  
department(deptID),  
    userPrivilege int NOT NULL  
)
```

DEPARTMENT TABLE

```
CREATE TABLE IF NOT EXISTS department (  
    deptID BIGINT UNSIGNED AUTO_INCREMENT NOT NULL PRIMARY KEY,  
    deptName VARCHAR(32) NOT NULL  
)
```

LAB TABLE

CREATE TABLE IF NOT EXISTS lab (

labID BIGINT UNSIGNED AUTO_INCREMENT NOT NULL PRIMARY KEY,

labName VARCHAR(32) NOT NULL,

labRoom VARCHAR(16) NOT NULL,

deptHead INT UNSIGNED NOT NULL FOREIGN KEY REFERENCES users(userID),

deptID BIGINT UNSIGNED NOT NULL FOREIGN KEY REFERENCES
department(deptID)

)

LOG TABLE

CREATE TABLE IF NOT EXISTS log (

logID BIGINT UNSIGNED AUTO_INCREMENT NOT NULL PRIMARY KEY,

studentID BIGINT UNSIGNED FOREIGN KEY REFERENCES users(userID) ,

labID BIGINT UNSIGNED FOREIGN KEY REFERENCES lab(labID),

timeIn datetime NOT NULL,

timeOut datetime NULL,

itemsBorrowed varchar(255) NULL

)

SCHEDULE TABLE

```
CREATE TABLE IF NOT EXISTS schedule (  
  schedule_ID INT UNSIGNED AUTO_INCREMENT NOT NULL PRIMARY KEY,  
  student_ID BIGINT UNSIGNED FOREIGN KEY REFERENCES users(userID),  
  dept_ID int NOT NULL,  
  text_Schedule text,  
)
```