

COMP4970 - Software Engineering

Red Team - Database

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Code: First Pass

Non-Functional Requirement

1. Create Database

Non-Functional Requirement Feature

- a. Implement a database to contain all data. This includes room, time slot, start headcount, middle headcount, end headcount, and user ID.

Clients

Design:

/* The purpose of the Clients table is to store UserID for front end client authentication. userID is used by the Forms table for UserID specification */

Code:

```
CREATE TABLE `Clients` (  
  `UserID` varchar(20) NOT NULL  
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
```

Forms

Design:

/* The purpose of the Forms table is to store all data entered in the form by the client. */

Code:

```
CREATE TABLE `Forms` (  
  `FormID` int(20) NOT NULL,  
  `RoomID` int(20) NOT NULL,  
  `TimeslotID` int(20) NOT NULL,  
  `HeadcountType` varchar(20) NOT NULL,  
  `HeadcountCount` int(20) NOT NULL,  
  `UserID` varchar(20) NOT NULL,  
  `Timestamp` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP  
) ;
```

Rooms

Design:

/* The purpose of the Rooms table is to store RoomID, Room, and Capacity. RoomID is used by the Forms table for RoomID specification */

Code:

```
CREATE TABLE `Rooms` (  
  `RoomID` int(20) NOT NULL,  
  `Room` varchar(20) NOT NULL,  
  `Capacity` int(20) NOT NULL  
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
```

Timeslots

Design:

/* The purpose of the Timeslots table is to store TimeslotID and Timeslot. TimeslotID is used by the Forms table for TimeslotID specification */

Code:

```
CREATE TABLE `Timeslots` (  
  `TimeslotID` int(20) NOT NULL,  
  `Timeslot` varchar(20) NOT NULL  
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
```

Admins

Design:

/* The purpose of the Admins table is to store Username and Password for front end admin authentication. */

Code:

```
CREATE TABLE `Admins` (  
  `Username` varchar(20) NOT NULL,  
  `Password` varchar(255) NOT NULL  
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
```