

CPSC 2221 - Database Systems (Fall 2017)

Group Project - Implementation of a Relational Database

Project Title:	Restaurant Table Reservation System
Project Milestone:	Project Proposal

#	Student Name	Student ID	Email Address
1	Peter Cross	100235555	peter.cross@email.com
2	Saeid Jashnsaz	100250549	saeed.jashnsaz@gmail.com
3	Donat Daoutov	100242579	donat.daoutov@gmail.com
4			

By keying our names and student IDs in the above table, we certify that the work submitted with this cover page was performed solely by those whose names and student IDs are included above.

Also, we indicate that we are fully aware of the rules and consequences of plagiarism, as set forth by the Langara College.

PROJECT DESCRIPTION

Domain:

Restaurant Business with table service

Requirements:

The application will be able to do the following:

- Select and reserve a table for a specific date and time
- Reserve a parking space with table reservation
- Specify additional instructions for table reservation
- Receive a confirmation of table reservation by email
- Cancel table reservation

Application Specifications:

A user will be able to go to a restaurant website and by clicking on special button get to restaurant table reservation screen. On first screen the user should be able to select a date and time for which table reservation is desired. By clicking on "Next" button the user will be able to see the room plan with all restaurant tables. If there is more than one room in the restaurant, the user should be able to select a room in restaurant. For each table there should be specified visually or in text the following:

- the type of table (round, square, rectangle)
- how many people can sit on the table
- its availability for selected day and time

By clicking on available table the user should be able to select it. Then, by clicking on button "Next" the user would be able to get to the screen where there will be required to enter some personal information to complete table reservation:

- Name
- Email
- Phone number
- Type of occasion
- If parking space is required
- For how long the table is required
- Additional instructions, if necessary

By clicking on button "Reserve" the system should be able to verify if selected table is available for reservation for specified day, time and period of time. If not available - the system will display a message explaining why the reservation is impossible and on button click bring to the screen where the user can change selected date or time. If the reservation is possible - the system will write to the database all information about table reservation. Upon successful completion of table reservation the system will display a message to user about this and generate email with information about table reservation confirmation and send it to user's email. The user should be able to receive table reservation confirmation with confirmation code in his/her email box. The email will contain a link by clicking on which the user can cancel table reservation if his/her plans change. If a user clicks on such link the system should be able to find selected table reservation and write to database information about cancellation of the table reservation. For flexibility, all information about location of restaurant tables (row, spot, room, table shape, for how many people) should be stored in XML file and loaded to system dynamically. All sensitive information in database should be stored encrypted with encryption key minimum 256 bit. For security purposes, the database should be hosted separately from web application.

The system will have 2 types of users: customers and restaurant workers. Customers don't have to register with the system. They can log in to the system by typing in their email and confirmation code as password in the login form. By logging in to the system they will be able to cancel their table reservation from restaurant's web site. Restaurant workers should also be able to log in to the system and see all table reservations. They log in to the system with their email and password provided by systems administrator. If for some reason table reservation is impossible a restaurant employee may cancel reservation with explanation why reservation for specified day and time is impossible. Upon cancellation of reservation the customer should receive an email with cancellation of table reservation confirmation. The email will contain the details of table reservation and explanation why the reservation for selected day and time is impossible.

Platform:

Database : MySQL

Server-side scripting language : PHP

GUI: Web-based

Assumptions:

Registration of restaurant employees in the system is done manually by systems administrator. Log in credentials for restaurant workers are provided by systems administrator.