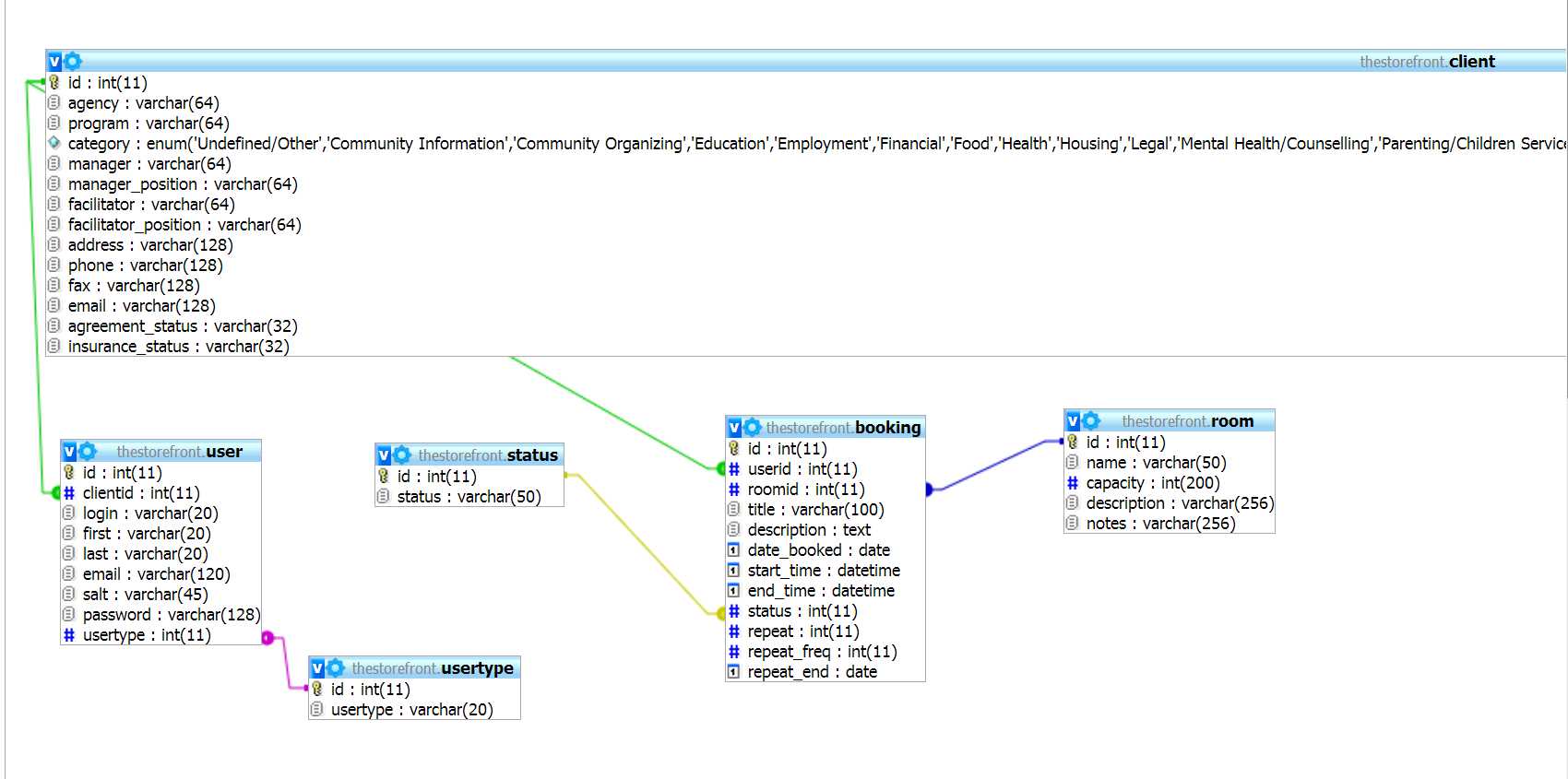
Design and Technology manifesto

PHP with the framework CodeIgniter was chosen because of member familiarity and recommendation. Other alternatives were using Django or some similar technology, it would however been new waters for every member. This resulted in us deciding on CodeIgniter for PHP. The architecture of the website uses the MVC model because it is enforced by CodeIgniter. The project is divided into models, views and controllers. Controllers organize and load views and controllers also get database information from models. Views send users’ input to controllers. The project organized views into 3 folders which are account folder, booking folder, main folder and room folder. We used templates and choose specific view from the folder to load the view with messages, script and/or style if necessary. The data model of our project is given in next page.

We used several build-in CodeIgniter libraries such form\_validation, email and so on. We used form\_validation library to get proper user input from users. We also notify users the problematic inputs by using form\_validation library. Hence, we don’t have to redirect the user into a blank error page, instead we can show informative messages to users when they give improper inputs. We also used email library to automatically send email to users. We used this functionality to send initial password to user’s email. Users will receive an email from East Scarborough Strorefront stating their initial password. We also used PHP library sha512 to encrypt the password. We only store encrypted version of users’ password due to privacy concern.

We are currently using mysql database which can be accessed at <http://thestorefront.cloudapp.net/phpmyadmin/> and the credentials are username: root and password: Csc301h1. The table looks like following,



We also used few external libraries and API to produce a better web experience. We used FullCalender and Qtip2 to help us in this project. FullCalendar is a calendar view developed in jQuery which provide API to drag, resize events and also it also provide multi-views such as month, week and day views. We chose FullCalendar because our project is based on event booking and we needed a Calendar to show all the events. We had two options in order to show a calendar view, which are Google calendar view which is quite popular and FullCalendar. We chose FullCalendar because it gave us a lot of room to customize it into our user stories. We also don’t want to share our product champion’s information with Google in order to protect their privacy. By using FullCalendar, we can control all the data and customization.

We also used Qtip2/Qtip to show the event’s description when the user hover over the event. We felt this important because it gives an overview about the event and user doesn’t need to go into edit event page just to see the details. This also will help admin to take quick decision on confirming the event. We chose Qtip2 instead of other tooltip tools because Qtip2 is closely developed with FullCalendar and it is easy to implement with FullCalendar. We used basic Qtip to show room description in room views.