

# **Programming the Internet (20120705.201)**

## **Group project 1**

### **Project proposal for the development of the UOL Hotel website**

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## Who-did-what list

### **Zlatan Marijanović:**

Developed the initial form\_validation.js and added form validation to all pages which are related to finding available rooms. Additionally developed the image\_slider.js script which adds functionality to the large image banners. Added date picker to reservation pages and modified the datepicker.js to position the date picker widget correctly.

### **Jone Lura:**

Developed the date picker in the datepicker.js and the ajax\_submit.js which handles asynchronous Javascript and XML (AJAX) functionality to the pages which do not need a separate confirmation page. Has additionally added form validation, with small modifications to the form\_validation.js and date picker, to all the required pages in the admin section and to the guestbook page.

### **Sidik Mahama:**

Experienced difficulties in understanding the assignment of how to validate the form, which led to an incomplete contribution. The form was therefore completed by Jone. Extensive guidance was provided by more experienced team members throughout this phase, aiming to assist with the learning of web development.

### **Sob Noguezi Cromwell:**

Added form validation on the contact us form.

Since the experience level of each team member is different, the pages for validation have been delegated accordingly.

## Introduction

The project has to date included the necessary JavaScript functionalities which are needed for the future stages. Although there has been iterative changes to some files, this is considered a natural progression in a software development project, since no clear requirements are defined for the project.

## Solution

The latest stable version of the web-site is located at:

<http://student.ohecampus.com/projects/group60/index.html>

The web-site version submitted for assessment is available at:

<http://student.ohecampus.com/projects/group60/phase3/index.html>

Form validation script has been conceived as global validation mechanism which would take into consideration each web form specific needs. Function takes submitting form id attribute as key upon which it bases selection of input fields to validate as well as which validation rules and visual

alerts to apply.

Validation rules are pertinent to the types of input field values anticipated by form submission, they involve checking against submitting no values, email address validation, date validation as well as date difference check, time validation as well as time time difference check, username and password initial input validation, age verification, etc

## Changes

Since every page has a form which is validated, and therefore contains repetitive code, this section will only list the pages with the significant changes.

### Index.html

The form on the right side is improved with a date picker widget and form validation, in addition to the banner with the image slider.

URL: <http://student.ohecampus.com/projects/group60/phase3/index.html>

### Booking.html and Availability.html

These pages are added with the same functionality as the index.html. When the user submits valid data in the booking form, the page is redirected to the availability page where the user enters personal details, and in a later stage, selects an available room.

URL: <http://student.ohecampus.com/projects/group60/phase3/booking.html>

URL: <http://student.ohecampus.com/projects/group60/phase3/availability.html>

### Room\_reservation.html and Conf\_reservation.html

The pages have increased user experience as they allow the user to select dates from an intuitive date picker widget. Both pages redirect to the availability.html if the submitted data is valid.

URL: [http://student.ohecampus.com/projects/group60/phase3/room\\_reservation.html](http://student.ohecampus.com/projects/group60/phase3/room_reservation.html)

URL: [http://student.ohecampus.com/projects/group60/phase3/conf\\_reservation.html](http://student.ohecampus.com/projects/group60/phase3/conf_reservation.html)

### Guestbook.html

The guestbook form is validated, and utilizes AJAX, to return a confirmation message from the server.

URL: <http://student.ohecampus.com/projects/group60/phase3/guestbook.html>

### Contactus.html

The contact us form is validated and utilizes AJAX, similar to the guestbook.html, to display a confirmation message.

URL: <http://student.ohecampus.com/projects/group60/phase3/contactus.html>

### UserDetails.html

For the administration section of the application, the page to edit or add a new user is validated. When the data submitted is valid, the user is redirected to the confirmation page.

URL:

<http://student.ohecampus.com/projects/group60/phase3/adminpanel/user/userDetails.html>

## **EntryDetails.html**

This page publishes or deletes the guestbook entry. The form also utilizes AJAX and the confirmation is displayed in the same page without refreshing the page.

URL:

<http://student.ohecampus.com/projects/group60/phase3/adminpanel/guestbook/entryDetails.html>

## **Reservations.html**

This page utilizes the date picker widget to increase the user experience.

URL:

<http://student.ohecampus.com/projects/group60/phase3/adminpanel/reservations/reservations.html>

## **ReservationDetail.html**

This page allows the user to modify the visitors' email address, arrival date and departure date. The form is validated, and will confirm with a AJAX message if the data is valid.

URL:

<http://student.ohecampus.com/projects/group60/phase3/adminpanel/reservations/reservationDetails.html>

## **Technology**

To prove that the AJAX is working properly, some PHP pages with a simple response have been written. These are not final, and will be modified in the next phase.

Although tools which simplify the date picker and image sliding animation code exist, such as JQuery and similar, this project has avoided them for learning purposes.

## **Comments**

There is a concern that some project members wait until the due date is closing in, before work is initiated. This does not allow the other team members to fully review and comment the code to ensure the consistency of the entire site. It also increases the work load on other members.

Github has worked well in this phase. The project has grown to a size where there are less incidents of conflicting changes, and the development is therefore significantly simplified.

Similar to the last phase, a significant amount of help and knowledge have been provided to members with limited experience in web development.