# Computer Science Department

## Web Application and Technologies (COMP 334)

**1ˢᵗ Semester 2017/2018**                     **Instructor: Dr. Yousef Hassouneh**

**Group Project**                                          *Due Date 04/01/2018*

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### COMP334: Project Description

This is a group project, each group is consisting of 3 team members, it is your responsibilities to find your team mates. You must send your instructor the name of your team name (give your team a name, it must be a unique name, so when you decide about a team name please post it at the course board on the face book, so others will not try to take it. Please when you post your team name also list the team members, their names and IDs).

Team names and members should be finalized by 02/12/2017 at latest, please see the list of tasks and their deadlines at the end of this document.

Project Description:

Picnics R Us (PRU) is a small catering firm with a staff of five employees. During a typical summer weekend, PRU caters 15-20 picnics with 20 to 50 people each.

You will develop a web site to help PRU in to run the daily activities of the business. The potential customers visit the PRU website in which s/he can enquiry and book a Picnic. The following functionality should be provided by the site:

1. Customer can ask for a list of Picnics, which can be generated according to the place and dates. Retrieved list should be appeared in a table first column has picnic reference number, date, and place, brief description, price per person, and book button (see 3 below). The picnic reference number should be active text, upon user click a new tab (you need to use JavaScript and CSS to create the tab, see the example illustrated in the class, not the tab created by the browser) is

open to give full description including the departure time, arrival time, return time, activities, food provided, some photos (at least three) for the place, and any conditions or restriction. The Picnic place should be active text refers to information about the place.

2. Customer should be able to search for a Picnic; the search can be done against date and places. Search result should be displayed in a table as in explained in Point number 1.

3. Customer can book a picnic by invoking the booking button (as in point 1 above), a booking form should be generated using the PHP script. The form should have the picnic reference number, place, description, departure time and departure location, arrival time and return time, price per person. The customer should entre number of people. Also the customer can ask for something special, such as birthday cake (I leave to you to add more option), then the form submitted as in point 4. Only logged on customers are allowed to book a picnic, therefore, if the customer is not logged on to the system. S/he should be directed to login page. Upon successful login the customer should be return to the last page where on.

4. After the customer submits the form the picnic is calculated, if the any special needs have been added. The total amount and summary of the booking and customer details are returned to the customer for confirmation. The confirmation form also asks the customer to entre payment details as follow: credit card details (number, expire date, name and bank issued it). Credit card number should consists of 10 digits the first four digits for the credit card company for instance 4444 Visa, 5555 MasterCard, 6666 American Express. So you should allow the user to choose the credit card type from a combo box then validate the number before sending to the server. After the customer enters the payment details the Customer confirm the booking by clicking on the confirm booking button (see point 5). When the user clicks on the confirmation button, the agreement contract should be displayed, and the user can either accept or reject it.

5. If the user accepts the terms of conditions, the completed form will be sent to the server. Then the server updates the database and replies to the customer with the invoice. The invoice should have a unique number that is generated by the system, a table that describe the items, quantity and subtotals, and total of the invoice, and note section that shows important information such as departure time, arrival time, assemble point, escort and his/her contact.

The following functionally are provided to the Manager:

1. The manger can schedule for a Picnic by entering picnic title, place, activities, food, departure time, arrival time, return time, transportation, price per person, if it suitable for children or people with disabilities and if there is any baby facilities, and the capacity.

2. The manger can view the number of people has been booked each Picnic.

3. Allocate escorts to the picnics.

## General Requirements:

1. Customer Registration:  In order for a customer to place an order the customer should create an account.  The customer registration is being done in four steps.
   a. The customer registration form should have the following details.

   Customer info. ( all the information are required.)

   All the IDs are 10 digits. Also validate the e-mail addresses

   - Name
   - Address
   - Date of Birth
   - ID number ()
   - E-mail address
   - Telephone and Fax Number

   b. Once the first step is being validated, the customer can move to the next step, which is creating an e-account. Your site should display an E-account form that allows the customer to enter a username which should be between 6-13 characters. Also the user should enter the password then confirms it. The valid password should be between 8-12 characters. Should start with Upper case alphabet and ends with digit.
   c. Once the second step is being validated, the final step is to send the form to the server. But before the submission, you should view all the details to the customer except the password and give the user the option to edit and change any mistakes or confirm.
   d. The confirm button will send the complete form to the server. Then the server should replay with customer confirmation message. The confirmation message should have the following information. The user name and a customer ID which is a 10 digit number, that ID will be used by the customer with all its order later on.  The server generates a customer ID, and sends a confirmation message to the customer. The customer account is still un-activated and an activation message sent to the customer by e-mail. The email should have the user name, password, customer ID and an activation link. The customer should click on the activation link, which calls a script that mark, the user as activated. (Customer activation will be left for the nest task)

<u>**General Requirements:**</u>
<u>**Style:**</u>

Your website should be responsive, <span style="color:red">do not use bootstrap in for this</span>, you must use CSS properties to do that.

Your web pages should be divided into different sections:

- navigation bar in which you should group the site functionality,
- main section in which the site activities are loaded, such as forms to be filled,… etc
- footer section, you can add, but not limited to, address details, banner, copy right,
- siders, in which you display the latest news, or events in order to attach customers.

You should provide a theme for your website in terms of colors, fonts, etcs you should provide

- Provide a style for heading and subheading
- For all mandatory fields
- Style for images
- Style for tables and lists
- Style for links
- Style for various picnic categories such as featured picnic, sold out, picnics to a new locations, etc.

*You should add a help menu in the navigation bar, the help menu should have an item called style. The style transfer to a web page, in which you explain in words (English or Arabic) your style.*

<u>**JavaScript**</u>

You should use java script to create a Rich User experience, such as use JavaScript and CSS to create the menu bar, and the tapped panels, use javascript and CSS to display the error messages beside the input fields.

Use JavaScript for Customer Registration

All forms that have mandatory data should be validated before sent to the sever.

Use Ajax to update to create the photo gallery, to allow the user to read picnic reviews.

Display search result: a form should be given to the user in which s/he can select how many record would like to display in each page default is 10 record per page. A bar like below should be displayed. It could be rearrange if the user change the number of records in each page. Consider that you need to use cookies to remember user preferences about the number of records per page.

```
<- 1 2 3 ----10->
```

**Submission instructions**

The Deadline for the Project Submission due on Wednesday **03/01/2018**, at the CS host. *In addition to your submission to the CShost you have to send me your project to Ritaj by replaying to this message. Also the deadline is* Wednesday **03/01/2018 at 23:30 (11:30 PM**).

*Task submissions*

*02/12/2017:* Team Name, team members (names and IDs), name for the company for whom you are developing the website.

*11/12/2017:* Database schema, which should be created and uploaded to the CS host

*23/12/2017:* CSS rules and the main design of website, the main divisions of the website, menu bars, footers, and  banners.
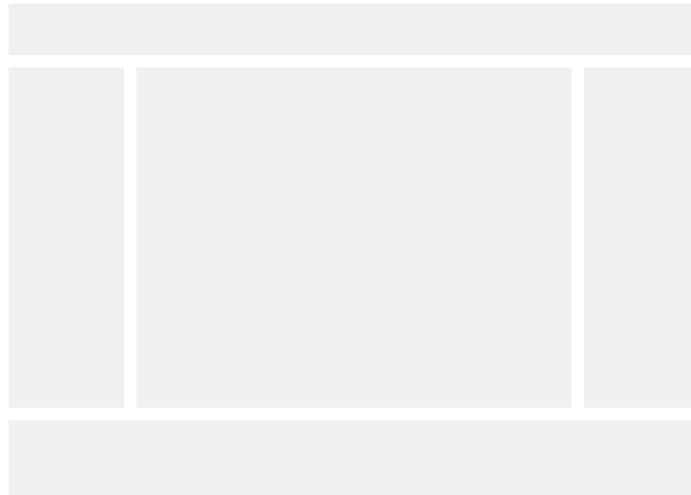
**What do you have to send to Ritaj?**

Your project should be compressed, the compressed file should be extracted to a Folder that will have the same name of your team. So make sure when your extract the compressed file to the local server and type the following URL  http://localhost/webprojects/team, where *team* is your team name, <mark>it must works and all the links are working fine</mark>.

The folder should have the following:-

- All the php scripts, javascripts, HTML, CSS, images, ..etc.

- The database Schema exported as SQL, the file name should be"team-dbschema.sql".

- Index.html

**The index page should has:**

- Students Names and Students IDs.

- A link to your project home page

- Name of the Database (the database name should be *team* (where team is your *team* name), you should create user name "*team*" and password "comp334", on that database. Which will be used as user name and password you in the php script to connect to the database. Where team is your team name

- 5. User Name and Password for the two types of site users: (customer and manager). You should create two users *team*manger which has the manager role, so is/he can performs the manager tasks explained above. Password is comp334 where team is your *team* name. Also, you should create two users *team*cust which has the customer role, so is/he can perform the customer tasks explained above. Password is comp334. Where team is your *team* name