

# TEST PROJECT IT SOFTWARE SOLUTIONS FOR BUSINESS

WSC2015\_TP09\_S1\_actual

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# **CONTENTS**

Session 1 of this Test Project consists of the following documentation/files:

- 1. WSC2015\_TP09\_S1\_EN.pdf (Session 1 instructions)
- 2. marathon-skills-2015-testing-data-s1.pdf (Testing data for session 1)
- 3. marathon-skills-2015-database-mysql.sql (SQL script to create tables with data for MySQL)
- 4. marathon-skills-2015-database-mssql.sql (SQL script to create tables with data for Microsoft SQL Server)
- 5. marathon-skills-2015-staff-import.xlsx (Staff, position and timesheet data to import)

# INTRODUCTION

In this session, you will be starting the development of the Marathon Skills 2015 application and its database. The designer has provided you with some system documentation so that you can build the system according to the client's needs. Take time to look through what has been provided.

Create the database, then import the necessary data.

Then create the application; the initial steps are to create some of the different windows that will be available to the public users.

Testing data has been provided to help you test the system: marathon-skills-2015-testing-data-s1.pdf

# INSTRUCTIONS TO THE COMPETITOR

By the end of this session, you will need to have the following deliverables ready to submit so that the Marathon Skills system will be finished on time.

Make sure that you follow the provided style guide throughout all parts of the system.

Make sure that you provide appropriate validation and error messages throughout all parts of the system.

Make sure that all relevant buttons/links are working at the end of the session.

Make sure that you use appropriate naming conventions for all parts of the system as needed.

### **DELIVERABLES**

### 1.1 CREATE THE DATABASE

Create a database using your preferred platform (MySQL/MS SQL Server) on the database server that has been provided for you.

### 1.2 IMPORT THE TABLES AND DATA

An SQL script has been provided for you that will create most of the tables and insert data into them. All you need to do is import the SQL script into your database. Choose the SQL script that is appropriate for your database platform:

MySQL:marathon-skills-2015-database-mysql.sql

**SQL Server:**marathon-skills-2015-database-mssgl.sgl

Staff data (staff, positions, timesheets) is not included in this SQL script. Refer to deliverables 1.3 and 1.4.





### **1.3 CREATE STAFF TABLES TO SPECIFICATION**

Refer to the database diagram (ERD) and data dictionary.

Create the staff tables (staff, position and timesheet) to the specifications provided.

### 1.4 IMPORT STAFF DATA

All staff data (including staff, positions and timesheet entries) has been provided in marathon-skills-2015-staff-import.xlsx.

This data is not ready to be imported directly into the database, you will need to alter the data to fit it into the tables that you have just created.

Summary information is not needed.

All "full names" are in the format of "Firstname Lastname", but different separator characters are used.

Make sure that email addresses are valid.

### **1.5 CREATE APPLICATION**

Create an application using your preferred platform (.NET or Java).

# 1.6 CREATE "1. MAIN SCREEN"

Create the main menu of the application as outlined in "1. Main screen" in the wireframe.

Every window/page of the application that has "? days? hours and? minutes until the race starts" at the bottom of the screen should automatically update in real-time (new value each second). Calculate the amount of time left until the 1st event of Marathon Skills 2015 starts (2015-09-05 06:00).

## 1.7 CREATE "6. SPONSOR A RUNNER"

Create the form that allows a public member to sponsor a runner as outlined in "6. Sponsor a runner" in the wireframe. All credit card information is to be validated and accepted, but it will not be saved in the database for security reasons. Credit card information will not be sent off to a payment gateway for processing.

- All fields are required.
- All runners that are registered in an event in the current marathon are displayed in dropdown list as: LastName, FirstName BibNumber (CountryCode).
- Credit card # has to be 16 digits.
- Expiry date must be a valid month and year that is after today's date.
- CVC is a security code that has to be 3 digits.
- Clicking the information icon (1) next to the charity will display the charity's information in a popup/modal window.
- The (+) and (-) buttons increase and decrease the sponsorship amount by \$10.

The user can enter a sponsorship amount directly into the textbox rather than using the buttons.





# 1.8 CREATE "7. SPONSORSHIP CONFIRMATION"

Create the confirmation "thank you" page as outlined in "7. Sponsorship confirmation" in the wireframe.

This page displays when a user has successfully sponsored a runner. It confirms the runner, charity and amount sponsored.

# 1.9 CREATE "10. FIND OUT MORE INFORMATION"

Create the sub-menu as outlined in "10. Find out more" in the wireframe.

# 1.10 CREATE "13. LIST OF CHARITIES"

Create the page as outlined in "13. List of charities" in the wireframe.

This page displays all charities listed in the database along with their logos (provided in general resources) to show runners the charities that they can support.