Competitor NRIC No : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Work Station No : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ASEAN Skills Competition 2016

Closed Paper

IT Software Solutions for Business

45 Mins

**INSTRUCTIONS**

1. You are required to answer **ALL** the questions.
2. Do not open this question paper until you are told to do so.
3. Write your NRIC Number and Work Station Number clearly at the top right-hand corner on the front page of the question paper.
4. Return this question paper at the end of the test.
5. Please read all instructions before you begin.

# Contents

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

1. marathon-skills-2015-marathon-map.jpg (Map of the marathon’s race course)

# Introduction

In this session, you will continue with the development of the Marathon Skills 2015 application, building on what you have already developed based on the following scenario:

Deliverables :- In a recent altercation between two runners, <Runner 1> claimed that he is indeed the faster runner as compared to <Runner 2>. Not wanting to be outdone, <Runner 2> challenged <Runner 1> to prove his claims. The intransigence of both parties sticking to their respective claims have attracted the attention of the organizers of Marathon Skills 2015. To provide a form of mediation, the organizers have sought your expertise to design and create a solution within the application that hopefully will aid in the mitigation of such unnecessary ruckus. It is also the organizers’ wish that the solution is not only the means to an end but could also serve as an excellent vehicle that exemplifies the competitiveness of the runners’ performance.

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| ATP – 1 : Create “1. COMpare runners” |
| 1. Create the form that allows a public member to compare two runners as outlined in “1. Compare Runners” in the wireframe.  * All runners whom are registered with their first name starting with ‘B’ and have completed some races in any one previous marathon (e.g. Honshu Half Marathon) are displayed in the “Runner 1” dropdown list as shown in the wireframe. * All runners whom are registered with their first name starting with ‘C’ and have completed the same race as “Runner 1” are displayed in the “Runner 2” dropdown list as shown in the wireframe. * From the information icon (🛈) next to the runners, clicking it will display all pertinent information specific to the runners in a separate popup/modal window. It is to be noted that the above criteria must also be in force.  1. Display the runners’ results in a table matching the following search/filter criteria:  * First Name. * Race time: The runners’ race time for the event must be shown in the format of hours, minutes and seconds. * Rank: Only the two runners’ rank and position for the selected event is shown.  1. Display the runners’ route from the point of source to the destination of the marathon event.  * The two runners are simulated moving in the path of the race track. * Calculate and simulate the fastest runner reaching the finish line first followed by the slower runner. * Indicate the runners’ first name during the simulation to identify the runners.  1. When the race completes, display the first position and second position using a chart format in a separate popup /modal window. |

