

Individual Project Brief ASE Year 2 2016/17

Purpose

This brief provides a problem statement for a project domain that may be used by students to produce portfolio elements such any of the Year 2 modules. It is mainly aimed at the Semester 1 modules in Commercial Java and Databases, though it provides opportunity to the DevOps module as well. Students must read the assessment pro-forma for each assessment to understand the applicability of this project brief.

Brief

The Tokyo Olympics Organisers require a system to register participants in events and to record medal winning.

The organisers will need to register the countries (or in some cases, teams) participating and the events being offered. They will need to cater for both individual and team events. They will need to register the participants from each country and it will need to register their participation in events. Participants can register to compete in multiple events. The organisers will need to register a date (and time) at which point registration of participants will close. They will need to generate participant numbers for each participant.

The organisers will need to record the results of each event; recording Gold, Silver and Bronze winners. In some events, there can be dead-heats.

The organisers will need to feed a number of output screen to the TV broadcast stations:

- This will include results per event (showing the medals won, the flag and name of the countries, the number and name of the participants and the name of the event).
- It will also need to show each medal winner(s) as the camera shows them receiving their medal.
- It will also include an overall medal table.
- It will also inform the medal makers of how many medals need to be made for each sport (as they are based on different locations and would have to be distributed in advance).

The organisers also get requests from the media for one-off reports and the organisers need to be able to support these. Such reports could be for medals breakdown by sport and/or country. Some reports may need gender to be included in the output.

Some media stations will ask to combine Tokyo data with their own. For example, the BBC have a list of GB's top medal winners such as Sir Steve Redgrave, Sir Bradley Wiggins and Laura Kenny that says how many Golds, Silvers and Bronze each of these has won. The BBC will want to see a refreshed list as the Tokyo games progress.