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Training

ANSAwise - Exercise Slides: Sports Event Administration System [Bellcore]

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Abstract

This is the slide presentation corresponding to the Sports Event Administration system exercise for Bellcore.

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Exercise: Sports Event Administration System





In this exercise

- **Refine a verbal specification for an automated scoring system**
- **Define associations and generalisations**
- **Design this into a WWW-based application**
 - **using forms**
 - **backend database**



Exercise Outline

- **The aim of this exercise is to design an automated sports event administration system**
 - **described in the exercise briefing sheet**

- **Build a model that can be implemented using WWW forms technology**
 - **with controlled access**



Targets

- **Describe the objects in terms of**
 - **names**
 - **associations**
- **Focus on simplicity of information management**
- **Use appropriate authorisation restrictions**



Remember

- **There is no “correct” solution**
- **You do need to think clearly**
 - **to justify your decisions and choices**
 - **to keep your approach simple**
- **Tips**
 - **do the problem once through as a sketch**
 - **then go through again and refine the sketch**



Now Do It!

You have 1 hour

...or to be precise, 3600 seconds...



What Was Learned

- Reinforcement of the analyse-into-objects approach
- The need to be able to cope with errors
- The need for authorisation to control data access
- Designing simple applications with simple data management
 - ideal for WWW applications



Model Solution

- **Ideal exercise should include**
 - **breakdown of problem into associated objects**
 - **interface for data input/output of each object**
 - **authorisation level of each object**



Summary

- **Apparently simple problems decompose into many small problems**
 - **divide and conquer**
- **The WWW uses a simple interface**
 - **HTML Forms**
- **Authorisation issues appear in even simple cases**
 - **but can be dealt with by simple means**



More information?

- For more on this exercise
 - on analysis of systems see *Object-Oriented Modeling and Design* by Rumbaugh et al (Prentice Hall 1991)
 - on building WWW applications using HTML Forms, see *The World Wide Web - Beneath the Surf* by Mark Handley and Jon Crowcroft (UCL Press 1994)