

**Semester 1, 2018****Tutorial 6****Case: Personal Trainer, Inc.**

Personal Trainer, Inc. owns and operates fitness centres in a dozen Midwestern cities. The centres have done well, and the company is planning an international expansion by opening a new “supercentre” in the Sydney area. Personal Trainer’s president, Cassia Umi, hired an IT consultant, Susan Park, to help develop an information system for the new facility. During the project, Susan will work closely with Gray Lewis, who will manage the new operation.

**Background**

Working as an IT consultant for Personal Trainer, Susan Park used data and process modeling tools to create a logical model of the proposed information system. Now she wants to build an object-oriented view of the system using O-O tools and techniques. Before you perform the following tasks, you should review the information and background in Tutorials 1 and 2, and the fact-finding summary of the case provided in Tutorial 4.

**Tasks**

1. Identify possible actors and use cases involved in Personal Trainer’s operations.
2. Create an object relationship diagram for the Personal Trainer information system.
3. Create a use case diagram for the system.
4. Select one of the use cases and create a sequence diagram and a state transition diagram.