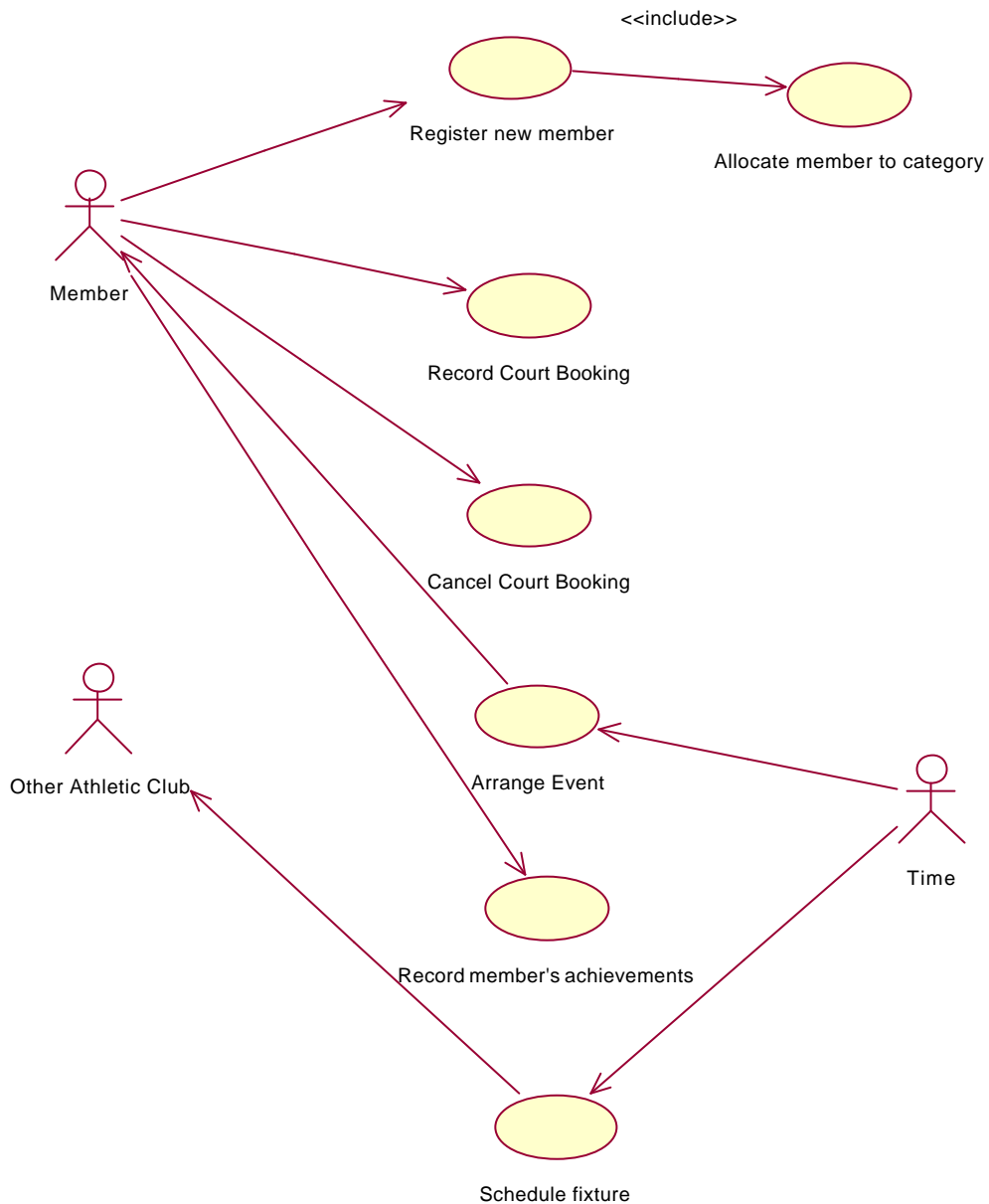


IS352: Advanced Systems Development

Exercise 2 Answer

The United Services Athletic Club has asked you to develop a computer based information system for their records. The system has to register new members and allocate each member to a particular category (Competitive Sports (such as swimming or running), Court Sports (such as tennis or badminton) and Team Sports (such as cricket, soccer, rugby, and hockey). Every two months, for each of the team sports, the system schedules fixtures (games) against the other seven Athletic Clubs in the surrounding area. For the Court Sports, the system enables members to book a court, or to cancel an existing booking. For the competitive sports, the system arranges events every month where club members can compete against each other. In addition to all of these activities the system must also keep a record of individual members achievements, such as speed over 100 metres, or scores from court based matches or team matches.

1. Identify at least five use cases for this system and draw one use case diagram showing all of your use cases together with the actors involved with those use cases.



For each of the five asked for use cases:

1 mark for identifying the correct “context”

1 mark for giving a correct label (verb phrase giving the system response)

1 mark for the correct or appropriate linkages

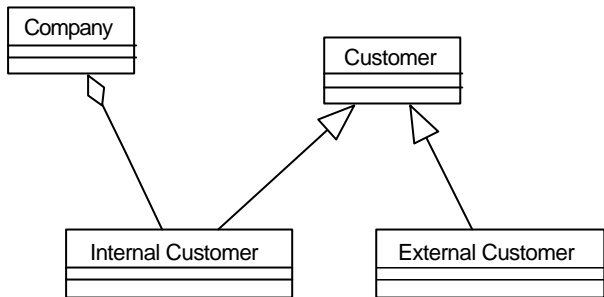
1 mark for the correct initiating actor shown and labelled

Up to 5 marks for more complex diagrams, for example inclusion of extra uses cases, use of <<includes>>, etc.

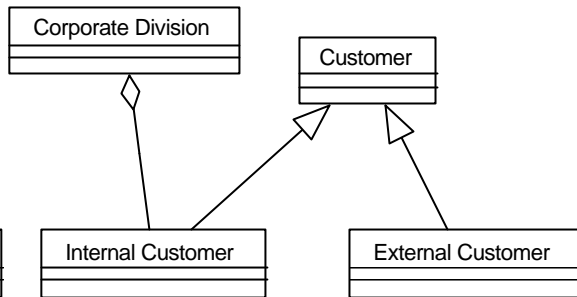
Total 25 marks

2. A company has two categories of customer: external customers, which are other companies and internal customers, which are all divisions within the company. Two attempts have been made to correctly capture this information. One is correct and the other incorrect. Identify the correct diagram giving reasons for your choice.

(a)



(b)



(a) is correct and (b) is incorrect because an internal customer is a Corporate Division, not a part of one, it is however part of a company and is also a kind of corporate division.

2 marks for identifying (i) as correct.

Up to 6 marks for giving appropriate reasons.

Total 8 marks.