

INF113 Assignment 1.

According to the following scenario, draw a Use Case diagram and provide a description of the use cases that you include in the diagram.

The university basketball team management plans to develop an online ticket booking system to provide a convenient way for fans to buy game tickets. The website connects with a database to display the real-time ticket information.

The basic features are as follows:

1. An individual can register as a member, or just check the availability of tickets for a specific game without registration.
2. There are two ways to check ticket availability. The first is through a game timetable, and the second one is through game venues.
3. A member can buy tickets, track his or her purchasing record, return tickets, and make payments online.
4. A member can change his or her own profile after login.
5. The system can generate statistical data for administrators to track sales information.
6. Administrators can update game and ticket information; they also can check the payment information.
7. The system should connect to a bank payment platform to enable the online payment.

You should:

1. Draw use case diagram with proper tools, Rational systems developer is recommended.
2. Write brief descriptions for each use case in the submitted document.

You need to turn in a single .pdf document that includes the following two items.

- 1. A Use Case Diagram, similar to what was done in class on 1/27/11.**
- 2. A 2-page explanation of your design, in particular, the use case (text) for each use case in the diagram. Also include identification and explanation of any ambiguities or inconsistencies that you may discover in the process of creating the diagram.**

IMPORTANT HINTS:

1. Please notice the relationship among actors. There is Generalization/Specialization relationship between members and visitors.
2. There are some relationships among use cases.

Include: A member's login behaviors should include his/her buying, tracking, return ticket and payment behaviors. The cases are similar for administrator's behaviors.

Extend: For the system to provide two methods for users to check ticket availability, the use case "Check ticket availability" should be extended by these two options.

3. You do not need to draw separate diagrams for the features specified above, you just need to draw one diagram include all system features.

You are **free** to add any other functions you think it should provide in your use case diagram. However, the basic features must be included.

Please submit your answer to INF113 Dropbox before midnight February 10, 2011.