

CSE 471
Spring 2023
Assignment #1 (10 marks)
Deadline: 25 February 2023

Instructions for preparing the solution script:

- **Write your name, ID#, and Section number clearly in the very front page.**
- **Write all answers sequentially.**
- **Start answering a question (not the part of the question) from the top of a new page.**
- **You have to submit a handwritten hardcopy of your assignment during CLASS TIME.**
- **Late submissions will not be accepted.**

1. BDXICRIC is planning to create an online website which consists of detailed information of every match in BPL. It is specially made for cricket lovers. In this online website users have to register for free access. After login to the website, the user can view schedule, player profile, Team profiles, match details. Users can update his/her status to Premium by paying a fee. Payment can be done by BKASH or Credit card. Premium users can watch matches online but special approval is needed from the administrator. Premium users can buy tickets online which are handled by BKASH. All users can create a dream team and post it on the website. Other users can comment in the post.

- a. Design a use case diagram based on the above scenario.
- b. Write down descriptions for any two use cases.
- c. Make a list of all the actors in this scenario. Also, mention their actor type (Primary/ Secondary/ External Hardware/ Other system).

2. Analyzing the system for student assignment management, the following requirements were identified.

- i) There can be three types of users: Teacher, Teaching Assistant (TA) and Student
- ii) Teacher can add new assignments
- iii) Teacher can edit/remove an existing assignment
- iv) TA can edit/remove an existing assignment
- v) Student can submit an assignment
- vi) Student can edit his submission (before due date)
- vii) TA can assign grade to submission (after due date)
- viii) Teacher can modify grade after graded by the TA
- ix) Student can view grade
- x) Students can generate reports of his submissions after they are graded by the TA.

- a. Design a use case diagram based on the above requirement list.
- b. Write down descriptions for any two use cases.
- c. Make a list of all the actors in this scenario. Also, mention their actor type (Primary/ Secondary/ External Hardware/ Other system).