

CSE 560: Software Analysis and Design

Sport Concussion Assessment System Project Submission Document

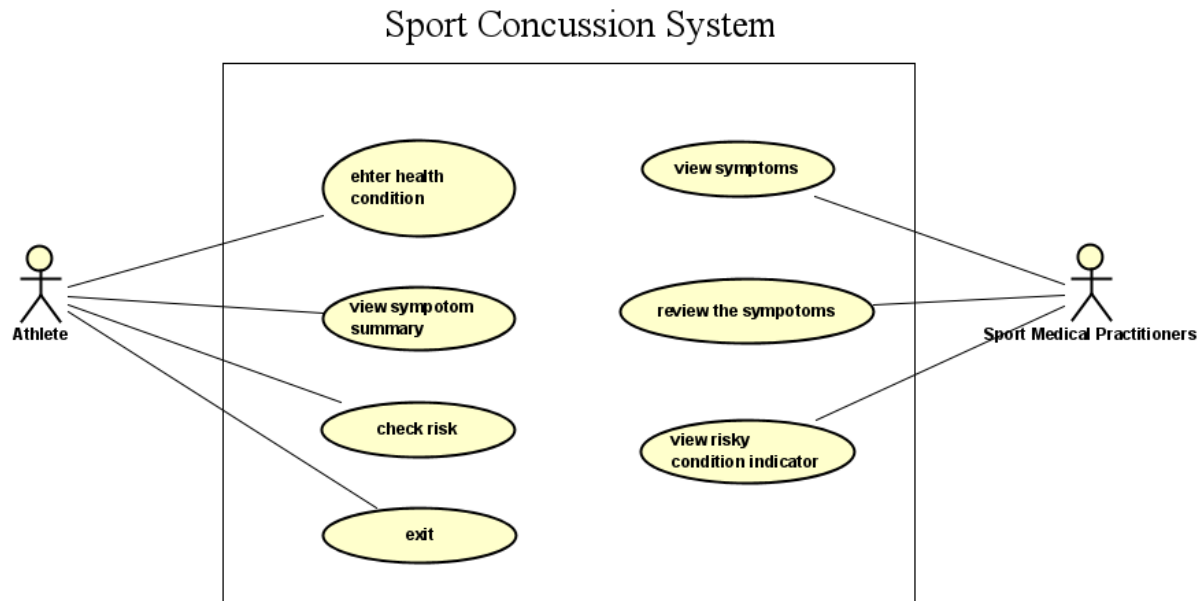
Directions:

Use this document to submit Phases I and II as a **single** PDF file titled “Last Name_First Name_Unit 2 Project_Phases I and II_Submission Document”.

Sport Concussion Assessment System Project Submission Document

Phase I, Part 1

Use Astah to draw a use case diagram. Use proper UML notation. When you have completed your diagram, take a clear screenshot of your diagram and paste it in the space provided.



Sport Concussion Assessment System Project Submission Document

Phase II, Part 1

Include your use-case descriptions on this page. You may use add pages if necessary.

Use Case Description for Athlete:

Use case name	Enter health condition
Description	Athlete enter the severity level of the symptoms from twenty-two factors to add to system
Primary Actor	Athlete
Basic Flow	Athlete chooses to enter symptom(option1), they will be prompted to enter the twenty-two possible symptoms with their severity level from zero to six. If the entered option number is less than 0 or greater than 4, then athlete will be prompted to enter again until correct input. If the entered the severity value is less than zero or greater than six, then they will be prompted to enter again. If there are more than five records in system, then delete the earliest before adding.

Use case name	View summary
Description	Athlete view the symptoms summary based on entered health condition
Primary Actor	Athlete
Basic Flow	Athlete chooses to display the symptom summary (option2), then a symptoms summary related to the most recent entered the record will be displayed. If the entered option number is less than 0 or greater than 4, then athlete will be prompted to enter again until correct input.

Use case name	Check if at risk
Description	Athlete needs to check if they are at risk based on their previously entered records
Primary Actor	Athlete
Basic Flow	Athlete chooses to check if at risk (option4), then result of risky condition indicator will be displayed one of three difference colors in text represents the severity of symptoms of last two successive games respectively. If the entered option number is less than 0 or greater than 4, then athlete will be prompted to enter again until correct input.

Sport Concussion Assessment System Project Submission Document

Use Case Description for Sport Medical Practitioner:

Use case name	View the athlete symptom summary
Description	SMP needs to review the symptom summary based on the health condition entered by athletes
Primary Actor	Sport Medical Practitioner
Basic Flow	SMP chooses to display the symptoms summary of an athlete, then a summary of health condition of an athlete based on the most recent entered record will be displayed.

Use case name	View the risky condition indicator
Description	SMP needs to check if an athlete at risk based on last two successive game's symptoms
Primary Actor	Sport Medical Practitioner
Basic Flow	SMP chooses views the risky condition indicator (check if at risk), then the risky condition indicator will show a color in text the represents the severity of an athlete about their health condition.

Phase II, Part 2

Sport Concussion Assessment System Project Submission Document

Use the use-case scenarios from Part 1 to identify and list the potential objects in the provided space. Use the template provided to create a CRC diagram for each object. Use as many pages as necessary for your CRC diagrams.

Potential Objects:

- **Roles:**
 - Athlete,
 - Sport Medical Practitioner
- **Events:**
 - Add athletes
 - Athletes input symptoms,
 - Athletes review the symptom summary for each game
 - Athlete check if I am at risk
 - Sport Medical Practitioner view the symptoms summary
 - Sport Medical Practitioner view risky condition indicator for each athlete
- **Things:**
 - Symptoms summary
 - Symptoms record
 - Risky condition indicator
- **Organizational units:**
 - Sport Concussion Assessment UI

Class: SCAS_UI	Collaborators Athletes Sport Medical Practitioner
Responsibilities Display Menu Call collect_symptoms Call current_symptoms_summary Call if_at_risk	

Class: Athletes	Collaborators Sport Concussion Assessment UI Symptom record Sport Medical Practitioner
Responsibilities Add athletes Athletes input symptoms Athlete review symptom summary for each game Athlete check if I am at the risk	

Sport Concussion Assessment System Project Submission Document

Class: Sport Medical Practitioner	Collaborators Athletes Symptom record
Responsibilities SMP views the symptom summary of an athlete for one game SMP views risky condition indicator for each athlete	

Class: Symptom Record	Collaborators Athletes
Responsibilities Record the input symptoms from athletes	

Sport Concussion Assessment System Project Submission Document

Phase II, Part 3

1. Use Astah to draw the class diagram using object identified in part 2. Use proper UML notations to reflect relationship among objects.
2. When you have completed your diagram, take a clear screenshot of your diagram and paste it in provided space. Include your UML class diagram in the provided space.

