**Group: 01**

**Course No: CSE 308**

**Course Title: SOFTWARE ENGINEERING AND INFORMATION**

**SYSTEM DESIGN SESSIONAL.**

**Project Name: Automation of BCB’s Game Development Committee**

(Scope Definition)

**Level/Term: 3/1**

**Section: B-2**

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**Introduction:**

Bangladesh cricket is one of the greatest prides for Bangladesh. Though Bangladesh cricket has advanced significantly in international level, unfortunately the domestic cricket management and maintenance has not been well-organized yet. Therefore, in spite of having lots of cricket loving talented players all over the country they are not inspired and utilized properly for sake of the Bangladesh cricket due to lack of seriousness and faulty system in the domestic cricket infrastructure. It is our belief that if we can improve this system to improve the domestic cricket infrastructure then no talent will be waste and our cricket will improve significantly.

**Objectives:**

Basically our objectives are:

1. Digitalize the current system of selecting district and divisional players.
2. Maintain the database of district level players.
3. Lessen the paper-out work.
4. Lessen the time consumed by the transition period.
5. Making the work of the selector easier as the database is being updated time to time.

**Current System’s Problems:**

In Bangladesh, there is no well organized system for selecting talented and worthy players for national cricket team from all over the country. Though various tournaments are held all over the country from time to time, no distinct and effective connection is available with the information of these tournament matches and BCB (Bangladesh Cricket Board). No database is recorded about these matches and players separately. As a result, performances of many promising players are completely ignored and mostly these players are lost from cricket.

Besides that, Teams are made not in a effective way. As a result often inefficient teams are formed. Also there is no office of BCB’s in every district. So there is a problem with communication among BCB’s councilors and members. This also creates lots of problem.

**Our Work Scope:**

BCB (Bangladesh Cricket Board) has sixteen standing committees. They are:

1. Working Committee
2. Cricket Operations Committee
3. Finance Committee
4. Disciplinary Committee
5. Game Development Committee
6. Tournament Committee
7. Umpires Committee
8. Ground & Facilities Committee
9. Cricket Committee of Dhaka Metropolis(CCDM)
10. Marketing & Commercial Committee
11. Medical Committee
12. Tender & Purchase Committee
13. Media & Communications Committee
14. Audit Committee
15. Women’s Wing
16. Logistics & Protocol Committee

We are taking the opportunity of digitalizing the information system of the game development sector of BCB. By implementing our project we expect the game development manager to maintain a database of each and every officers, players and employee up to district and school levels. Each level officer will be able to update and evaluate the database of each employee under his supervision. Most importantly, all the players of under 14 to 19 teams of district teams will be kept under observation and supervision by maintaining their database and statistics. Thus we hope to maintain a distinct and updated interconnection with each level of game development sectors.

**Game Development System Structure:**

**Subsystems:**

Our subsystems are:

* Program Management System
* Divisional Cricket Management System
* Game Education Management System
* Academy Operations Management System
* Coach Management System
* Control Management System

1. **Programs Management System:**
2. **User as Administrator of school cricket competition:**

a. Enroll schools in tournament.

b. Notify school authority about upcoming matches of tournament by digitalized process.

c. Arrange school cricket tournaments.

d. Ask for necessary equipments from facilities and equipment administrator for tournaments.

1. **User as Administrator of Youth Project :**

a. Arrange youth cricket (age based)

b. Mange tournament time and venue by providing due season and grounds information to program manager.

c. Ask for necessary facilities from facilities and equipment administrator.

d. Update tournament info by maintaining database.

1. **User as Facilities and Equipment Administrator:**

a. Provide necessary equipments and facilities to youth cricket and school cricket project administrators by digitalized process.

b. Notify program manager about supply and demands.

c. Facilities and equipment lists include game equipments, ground facilities and food facilities.

1. **User as Program Manager:**

1. Observe each department under his supervision as discussed earlier.

2. Approve and provide necessary facilities to each department.

3. Give regular updates of his work to game development operation manager.

**2. Divisional Player Management System:**

**a. User as District Cricket Coach:**

1. Form team of under 14, under 16 and under 18.
2. Recommend players for divisional team to divisional cricket coach.
3. **User as Divisional cricket coach:**
4. Form teams of divisional under 14, 16 and 18 on the basis of Tournament performance and suggestion of district coach.
5. Update to divisional cricket manager.
6. Monitor tournaments.
7. Send info about divisional cricket team squad to Divisional cricket manager for approval.
8. **Divisional Cricket Manager:**

a. Assign coaches (district and divisional coaches).

b. Evaluate works of district and divisional coaches by observing and updating their information.

c. Approval of divisional team.

**3.Game Education Management System:**

**a. User as Game Education deputy manager:**

1. Maintain database on players education and corresponding teachers.
2. Assign teachers for different courses.
3. Monitor and evaluate players’ performance for different courses and assign necessary courses for them.
4. **User as Game Education Manager**
5. Monitor work of Game education deputy manager and communicate with him.
6. Maintain different courses.

**4. Academy Operation Management System:**

**a.User as Academy operations manager:**

1. Observe players lacking by evaluating players database.
2. Assign Head coach and maintain his database.
3. **Coach Management System:**
4. **User as Manager Coach:**
   1. Maintain all academy coaches database each and every team of academy.
   2. Notify operations manager about all these coaches

**Control System:**

1. **User as Operational Manager:**
   1. Operational manager maintain all the sector managers’ databases.
   2. Approve necessary requests of all sector for game development.
   3. Notify National managers all the undertaken steps and all the sector databases.
2. **User as National Manager:**
3. Observe the whole game development databases and officers.
4. Maintain the foreign/ international affairs.
5. Maintain regular contact With BCB by supplying the whole database.

**Worthiness of this project:**

In our project we would like to introduce database of all the players, matches, tournaments from district level teams to national team. District level teams include under 14, 15,16,18,19 teams of each district. This will record players’ information so that they are available for divisional,1st class crickets on the basis of their recent performances and are never lost. This will help divisional teams to find and maintain effective players easily which in turn, will help 1st class cricket and also national team to improve and succeed.

**Why Game Development as project:**

As discussed earlier, unfortunately the domestic cricket management and maintenance system has not been well-organized yet for such an internationally well recognized cricket loving country like Bangladesh. One step is obviously to be taken soon to organize the domestic cricket of Bangladesh. Therefore game development sector of Bangladesh cricket needs a digitally maintained data and information system of domestic players playing in different levels. We are optimistic about helping BCB with our project for finding talented players and maintaining domestic cricket management system efficiently and thus taking the national cricket team of Bangladesh to a higher level in the international field.

**Conclusion:**

In short Our Objective is to help BCB to prosper so that our cricket and the cricketers will prosper as well. This also helps all the domestic cricket players to have their opportunities to show their skills. We are very hopeful that, if we are able to automate the game development committee, then the whole Bangladesh Cricket Board will be benefited.