## 1.11 Methodology

### **Data collection method**

We use the following collection methods

* Interview

We have made interview with students who are member of student union and sport club in ASTU.

* Observation

We have observed some inter department games.

* Document analysis

We have analyzed document (proposal) which is stored in the student union main office that shows the over view of the existing system.

### System analysis and system design

In this project we are going to use object-oriented system development methodology.

* Object oriented analysis

In this phase we apply object-oriented analysis technique approach for analyzing the system by applying object-oriented programming.

* Object oriented design

In this phase we apply object-oriented design technique approach for design the system by applying object-oriented programming.

### Deployment /implementation methods

**Agile Implementation Methodology**. The **agile** software development **approach** is designed to cope with the complexity of modern software projects and to allow these projects to be designed in a more flexible manner.

### System development method

We choose agile model. Agile approach is considered to be better.it uses incremental approach a sample prototype discussed with customer.

**Agile implementation** is a form of project management that works in small increments and well it suited to projects that could become irrelevant once delivered, especially useful in software development. The key to the agile plan is that it provides flexibility for changes to the product as it continues to be developed.

**Benefit of agile**

Agile is flexible, a huge benefit when the customer requirements or priorities frequently change. Agile also gets the product to the market faster and has better team communication

More flexible

Agile adapts to change better Requirements can be added, deleted, or changed at the beginning of each iterative cycle, guiding the project team on the work for the next iteration. The customer can also shift priorities at the beginning of each cycle, allowing the project team to keep up with the customer's business needs.

Product get market faster

The product gets to market faster using agile because the focus is on working deliverables, not finished products. The requirements defined during a particular iteration are built into a working model.

Better communication

Because the project team works closely with the customer to revisit requirements and priority.