1. **Subsystem Services**

**User Interface**

The User Interface will be the bridge between users and the services of the subsystems.

**Authentication**

In order for a user to utilize the system, first they must prove that they have access to the system through the Authentication subsystem. The Authentication subsystem takes in three inputs, username, password and role. It must first determine if the username entered does in fact exist within the database by using the Data subsystem. If the user does not exist then the subsystem will call forth the Alert subsystem to let the user know that the credential were incorrect, otherwise the

password entered will be go through a verification process. If the password entered is incorrect,

the subsystem will utilize the Alert subsystem to let the user know that the input credentials were

incorrect. Authentication system will also take care of user registration. Input includes typical user info such username, password, role, relationship, etc.

Subsystem services:

* Login
* Register
* Credential Checking

**Data**

Teacher,, student, activity and meeting subsystem all depends on the Data subsystem to complete database queries and changes.

Subsystem services:

* Add
* Delete
* Get
* Save

**Administrator/Teacher**

The administrator/teacher subsystem can only be accessed by its accounts. This subsystem is

responsible for updating information on the system

* Editing student information
* Editing meeting information
* Editing activity information

**Student Information**

This subsystem manage the student information for the teacher and administrator.

Subsystem Services:

● Create Courses

● Course Schedule

● Export To PDF

**Meeting Information**

It will be responsible for managing activity info. The subsystem will provide services such as lecturer/administrator can set when and what type of meeting will take place.

Subsystem services:

* Add meeting
* Edit Meeting
* List of meeting

**Activity Information**

It will be responsible for managing activity info. The subsystem will provide services such as lecture/administrator can set when and what type of activity will take place.

Subsystem services:

* Add activity
* Edit activity
* List of activity