

**FACULTY OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**TITLE: DORMITORY SYSTEM**

**GROUP- STUDENTS**

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## Chapter one

### 1.1 Background of Wachemo University

Wachemo University is located at Hosanna town which is the administrative and trading center of Hadiya Zone in South Nation, Nationalities and Peoples regional state. The university is located at a distance of 230km south west of Addis Ababa and 160km west of Hawasa city. Wachemo University lies at an altitude of 1500 meters above sea level. The annual temperature of the area is 14.1°C and the average annual rainfall is 133.6mm.

Being one of the newly established universities, the university started its learning and teaching process in 2004. The Ethiopian Prime Minister Meles Zenawi laid down the corner stone of the university at Hosanna town in February 2001 E.C. In his speech, the Prime Minister said that besides the widening access to education, the opening of Wachemo University will have been covering community service.

The University now aims at delivering teaching, learning, research and community services. The University offers the course under six faculties that include Engineering and technology, Natural and computational science, Business and Economics, Health science, Agriculture and Social science and humanity.

### 1.2 Statement of problem

Problems the dormitory office faces while performing the manual activities are:

- Data transferring problem
- Inefficiency of use of time
- Difficulties of data backup
- Student data redundancies

### 1.3 Proposed system

In our new proposed system, we are going to develop a schedule for the dormitory system that is capable of controlling the organization's activities.

In the schedule, there are working shifts. For the students, the system is applicable to search and give feedback depending on the viewed results by the organization.

The other thing in our proposed system is that we will allocate a unique identification code for each room facility; thus, there will not be a problem recording from any other stored materials.

The system is able set students and material with unique code of the student id and good code and also storing the details of the goods.

. The system also records the due date and the issue date so that there will be a fine charge for users who do not registered on time.

#### **1.4 Objective of the project**

##### *1.4.1 General objective*

The general objective of the project is to automate the current manual system of dormitory office.

##### **1.4.2 Specific objective**

- To improve the efficiency of dormitory system.
- To make data entry and retrieving easy.
- To develop reliable dormitory system.

#### **1.5 Scope of the project**

- Student placement process.
- Viewing placement results.
- Management students in a dorm.

#### **1.6 Significance of the project**

The newly developed system has significance over the current system, by providing placing and viewing placement result in automated form. The system also perform timely backup , as a result of this the students data redundancy will become proved and by the system students, dorm office, and the management organization are beneficial.

#### **1.7 Limitation of the project**

- The system that we are going to develop cannot able to view the placement result of the first year students until the identification number is given for them.

#### **1.8 Methodologies**

- ❖ *Interview*: interviewing the dormitory office manager.
- ❖ *Observation*: The team groups are observing physically the organization.

##### **➤ Feasibility study**

##### **2.1 Operational feasibility**

The system is reliable and efficient within organization. It is also promising to fulfill organization system.

## **2.2 Technical feasibility**

The previous system perform activities manually, but the developed system is computerized this indicates us our project is technically feasible.

### **2.2.1 Hardware requirement**

Hardware System Requirements are:

- Hard disk=150 GB
- CPU (Processor)=2.40GHZ
- RAM =6.00GB

Other Hardware requirements

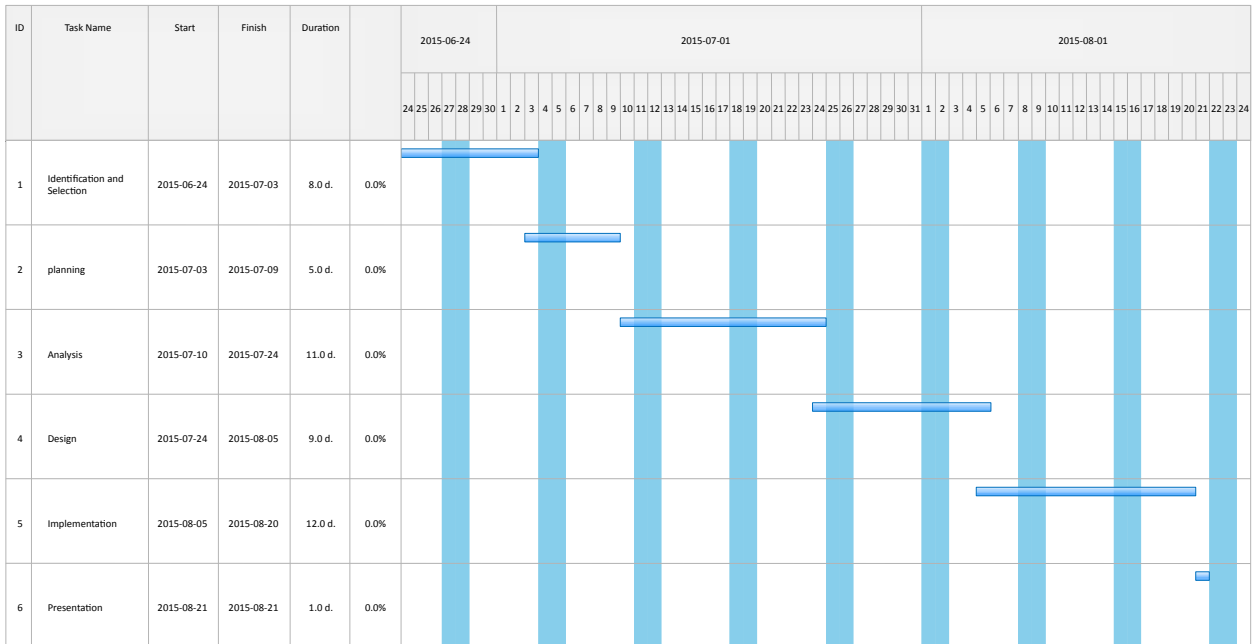
- Flash
- CD RW
- Paper
- pen
- Printer

### **2.2.2 Software requirements**

- MS office 2007
- Ms power point 200
- Visio software for UML diagrams and Other requirements such as:
  - Edraw max(version trial)
  - Anti-virus

## 2.3 Schedule feasibility

### 2.3.1 Timeframe of tasks



## 2.4 Economical feasibility

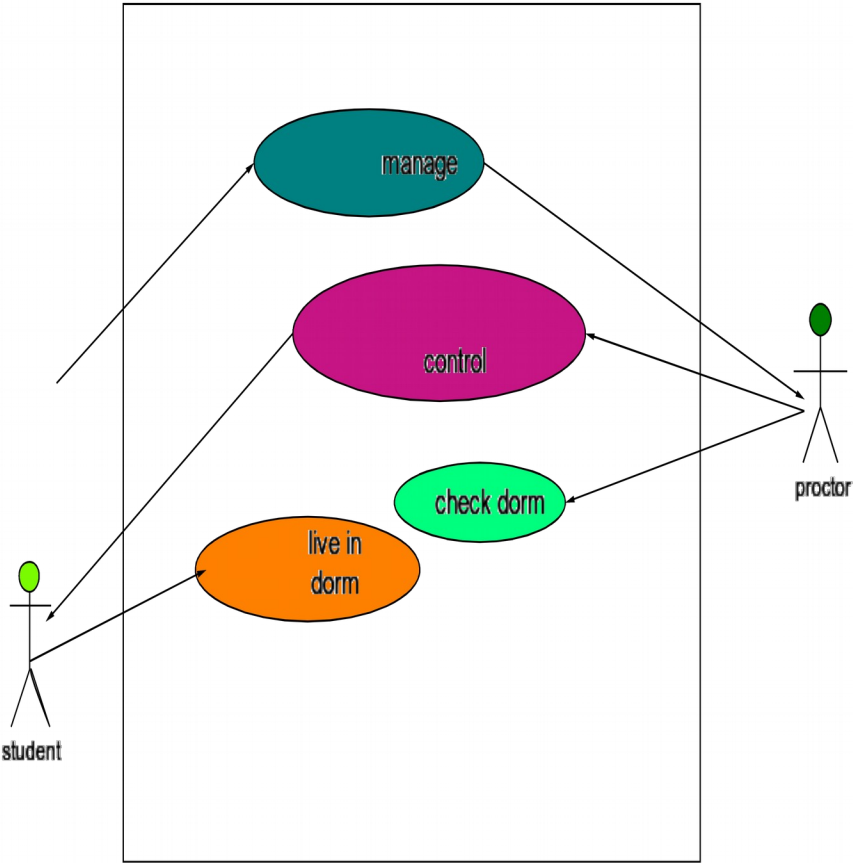
The project that we are going to develop is economically feasible when compared within the current wachemo dormitory system. For the project we need 450 birr and this cost is economically profitable for organization.

### 2.4.1 Budget of the project

No	Item	Quantity	Unit cost	Total cost
1	Paper	30	0.50 cent	15 birr
2	Pens	2	5 birr	10birr
4	Type writing	Pages 12	4 birr	48 birr
5	Photo copy	36	0.50 cent	18 birr
6	Telephone cost	-	-	20birr
7	Other cost	-	-	50birr
8	Printing	12	2birr	24birr

Total	-	-	<u>185 birr</u>
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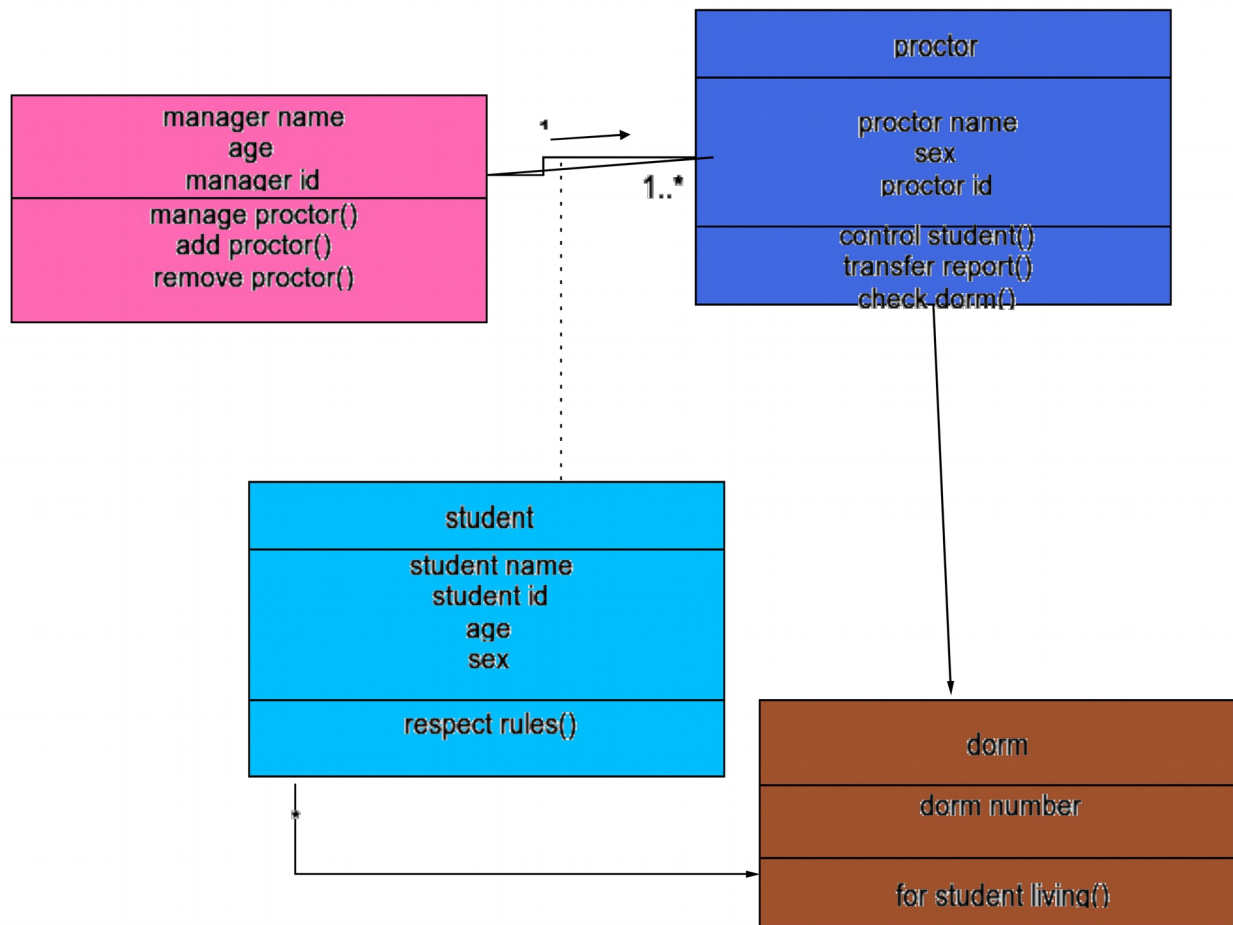
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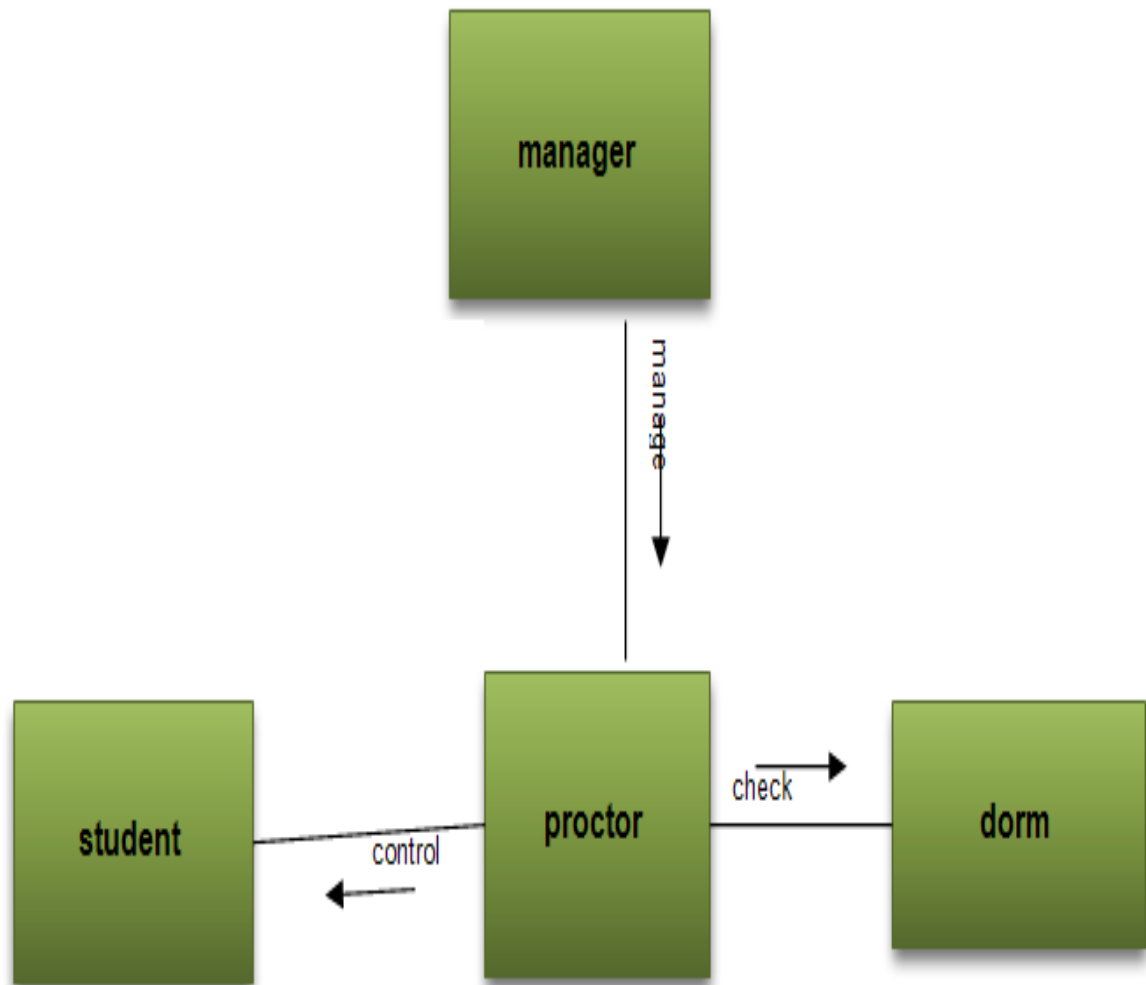


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# UML Class Diagram

manager





UML 2.5.1



