



# Administrative Supporting System

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5. Annex: detailed work/activity breakdown matrix for the group members.

# 1 Initial software requirements specification

## 1. Management of Students

- After end of the each term, the progress of the students should be compared with their previous exam results and monthly assessments automatically.
- According to above criteria, a report containing graphs should be generated for the convenience of staff to making decisions regarding future evaluations.
- A report should be generated after final term test according to government criteria, about overall progress of grade 11 students to send to zonal education office.
- Analyzing the attendance of students and identify the students who haven't achieve the expected attendance level and inform them in advance.
- There should be way to view individual progress of each student by themselves.
- Each member of academic staff should be able to study the overall progress of their own subject and progress of individual student.

## 2. Management of Staff

- When reporting to the Zonal Education Office for recruiting a teacher or a retirement of an academic member,
  - Subject via, the number of teachers currently available and their specific qualifications
  - When consider a teacher, their specific subject and qualification  
Are essential, so an efficient method is required to manage these details and retrieve them when needed.
- When a staff member applying for a leave, the administrative should be able to get details about the availability of leave; because limited number of leave are available for a year.
- There should be a method to record the attendance of each academic staff member.
- It is essential to know the absentees of the academic staff members to plan the daily schedule.

- A separate list should be maintained about teachers who complete 10 years of service period in the school.

### 3. Management of resources

- If there is more than one student in school who are in same family, then administrative wants to verify that each family has paid the specific amount of money for the year.
- Extend the capabilities and efficiency by increasing interconnection among staff, parents and students through a web access system

## 2 Initial Software Development Project Plan

<b>Interview Client.</b>	<b>07/10/14</b>	<b>07/10/14</b>	<b>4</b>
<b>Requirements Gathering</b>	07/11/14	07/12/14	12
<b>Prioritize Requirements.</b>	07/13/14	07/13/14	4
<b>Data Gathering for Relevant Requirements</b>	07/15/14	07/19/14	30
<b>Scheduling</b>	07/19/14	07/21/14	12
<b>Database Designing.</b>	07/22/14	07/27/14	60
<b>Database Development.</b>	07/28/14	07/31/14	40
<b>Database Testing.</b>	08/01/14	08/02/14	12
<b>Data Manipulation of Database.</b>	08/03/14	08/06/14	24
<b>Database Testing.</b>	08/07/14	08/08/14	12
<b>Student Progress Designing and Development.</b>	08/09/14	08/12/14	9
<b>Student Progress Testing.</b>	08/13/14	08/14/14	12
<b>Progress of Student Attendance Designing and Development.</b>	08/13/14	08/14/14	16
<b>Progress of Student Attendance Testing</b>	08/15/14	08/16/14	12
<b>Leave Management System Designing and Development.</b>	08/16/14	08/18/14	24
<b>Leave Management System Testing</b>	08/19/14	08/20/14	12
<b>Finance Management System Designing and Development.</b>	08/20/14	08/23/14	24
<b>Finance Management System Testing.</b>	08/24/14	08/25/14	12
<b>Gathering Data for Progress Report.</b>	08/26/14	08/29/14	32
<b>Designing the Template of Progress Report</b>	08/30/14	08/30/14	10
<b>Progress Report Developing.</b>	08/31/14	09/02/14	18
<b>Progress Report Testing.</b>	09/03/14	09/04/14	12
<b>GUI Designing.</b>	09/05/14	09/07/14	24

<b>GUI Developing.</b>	09/08/14	09/11/14	24
<b>GUI Testing.</b>	09/12/14	09/13/14	16
<b>Implementing the System.</b>	09/14/14	09/23/14	80
<b>Testing the System.</b>	09/24/14	09/29/14	60
<b>Support Client to Use the System.</b>	09/30/14	10/09/14	40

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### 3 Business model based software requirements analysis

#### Business case summery

Sri Lanka is a country which has a free education and it always try to enhance the overall quality of government education. Schools are the base stage of it. So this base stage must be developing other than any stages of education.

Even though world passed the information technology age Sri Lankan government school still using boring and inefficient study, student evaluation, and parent meeting methods. Parents, students or teachers have to put very much effort to view or get information about specific details regarding student progress. Also most of schools don't have any information about some important areas such as progress of the teachers and evaluation methods. In the other hand every school still have traditional time consuming record book and report card evaluation methods.

The intent of this project is to introduce system to enhance the prevailing education in efficient way. By this we provide auto generated official reports and to view details term by term, subject wise and overall.

#### Anticipated outcomes

- After every term of 4 months generate evaluation report and analyze it and take steps to enhance the results and quality of education.
- After every year academic period evaluate test marks student wise, subject wise, class wise and grade wise.
- After every year generate progress reports and send them to Zonal education center.
- The specific amount of Rs.600 should not be allowed to exceed from each family
- Every graded evaluation of student which done by school wise or class wise or subject wise will be added to system daily.

#### Problem statement

So many conflicts are being generated among the schools and parents regarding school development funds which collect time to time.

Parents and also teachers do not have any method to get statistical report of their children's education improvement during the middle of semester. (They can only get report card only after terms or sometimes after the year end exam). The worst thing of this is if there is a sudden drop of a children during the term parent couldn't know it and even child also don't know about it.

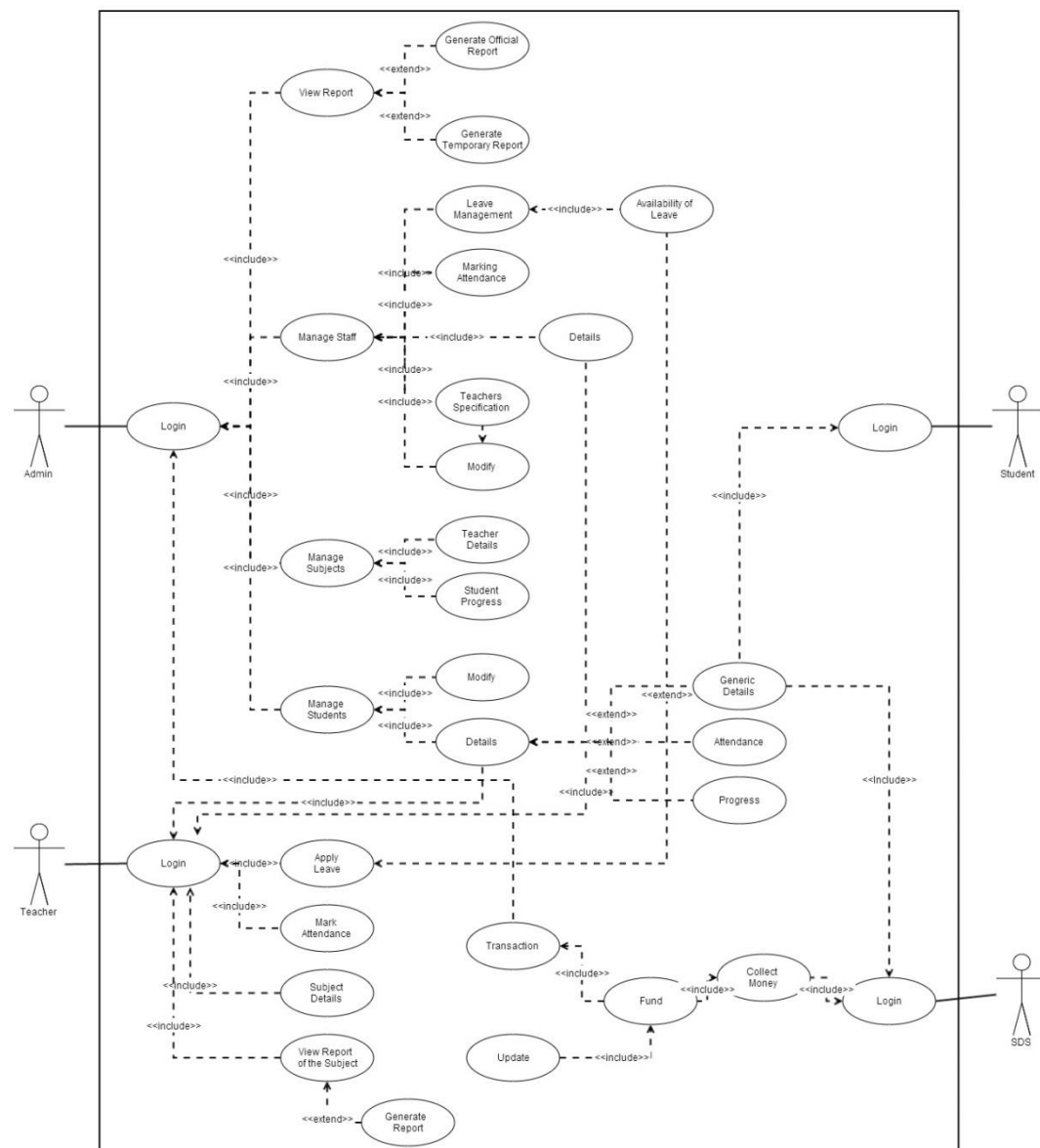
Annual report generating is very hard work for every teacher and they cost more time for it and it has more errors.

## Benefits

When project is successful student evaluation methods and report generating will be more efficient and fruitful. Teachers and parents can know their children's improvement so easy than ever. Also funds gathered for develop school infrastructure facilities which collect from students can be handled in conflict less manner and without exceeding the limit.

## Cost

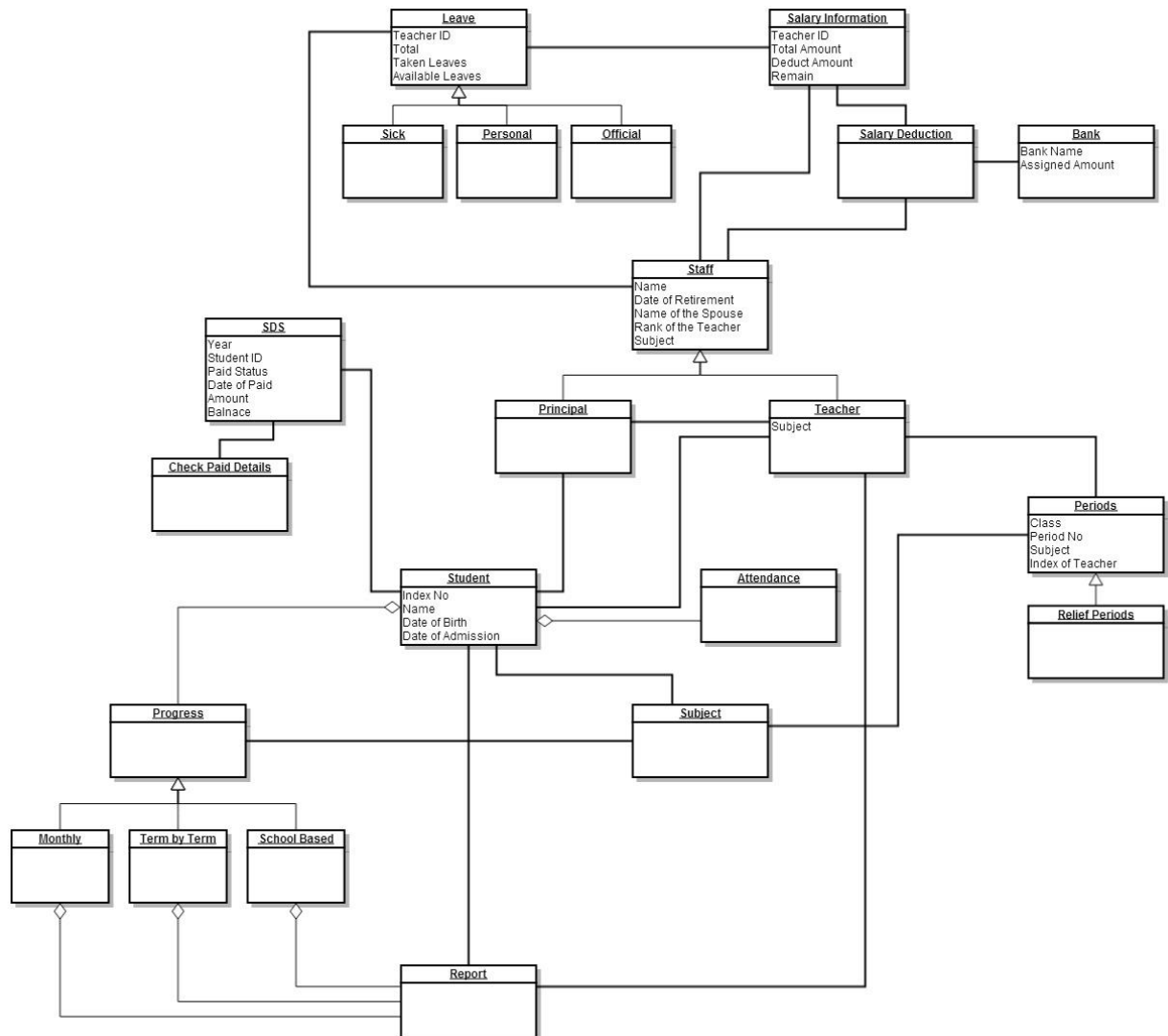
It costs 4 months to develop the system.



Use Case Diagram for the system



## 4 Domain model based software requirements analysis



## Annex

Task	A.M.M. Gangananda (%)	T.L. Kalubowila (%)	D.N. Gankanda (%)	W.D.T. Piyadasun (%)	G.H.D.M.M. Gammanpila (%)
Discussion with the client	30	20	30	10	10
Understand the business requirements	25	20	25	15	15
Requirements analysis	25	20	35	10	10
Understand and prioritize basic requirements	20	20	35	15	10
Develop the vision of the system	25	40	15	10	10
Understand and develop the business case	30	10	10	40	10
Understand the required technical level and tools	35	20	15	15	15
Define the scope of the system	25	10	35	20	10
Develop the estimate of cost	25	10	15	40	10
Identify the tasks to be done for completion of project	25	35	20	10	10
Developing the Gantt chart	25	35	20	10	10
Design and developing WBS	10	50	10	10	20
Identify main work flows of system	30	15	20	20	15
Define each work flow and design WFDs	30	15	15	25	15
Identify the domain and sub domains	20	25	25	15	15
Design domain model	20	20	25	25	10
Create the descriptions of sub domains	30	25	15	15	15
Documentation	10	40	30	10	10
<b>Total</b>	<b>24.4</b>	<b>23.9</b>	<b>22</b>	<b>17.5</b>	<b>12.2</b>