Inception Phase Activities for the Unified Process

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Requirements Gathering and Analysis

For gathering requirements and analysis, Vincito crew has decided to use **Gliffy** tool.

Gliffy is an online diagram editor. Flowcharts, network diagrams, floor plans, user interface design and technical drawings can be drawn by using Gliffy tool. Users can save their diagrams which are drawn, into their machines under .gliffy extension or as an image file. This tool is low cost and good for business and personal use. In gliffy tool, there are three main areas named toolbar, shape library and drawing stage. These parts make it easy to create relevant diagrams in appropriate manner.
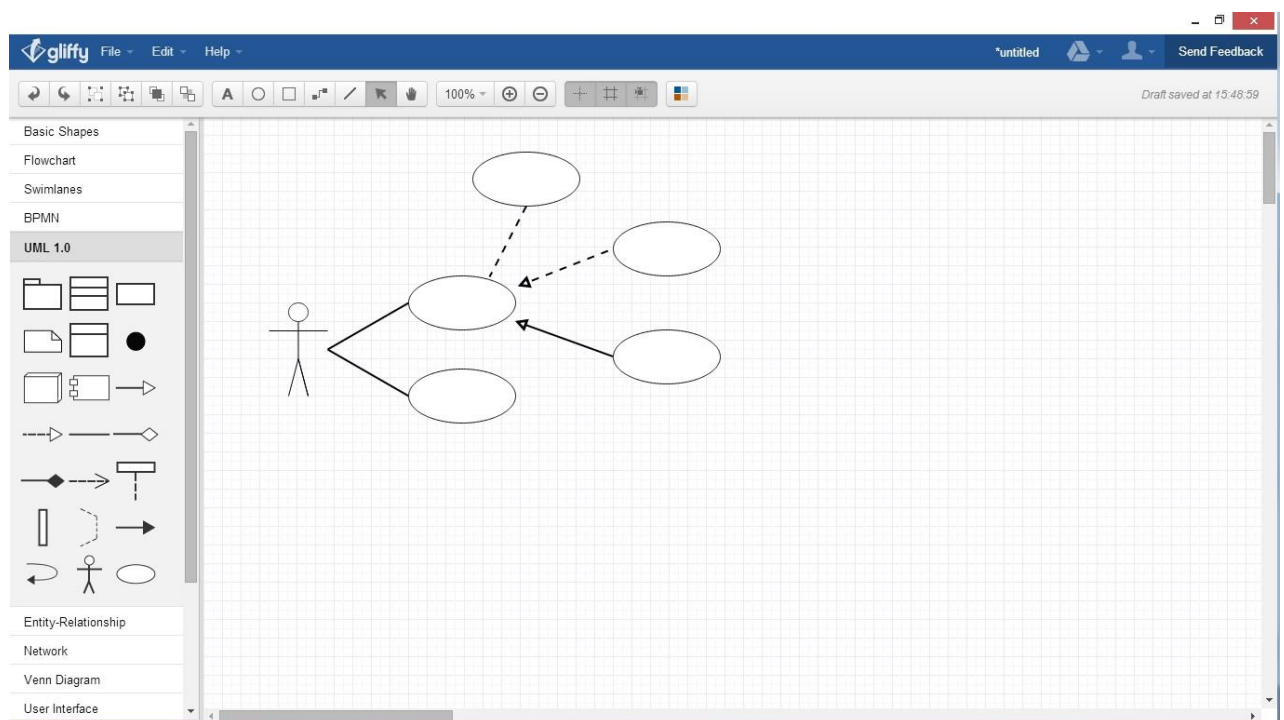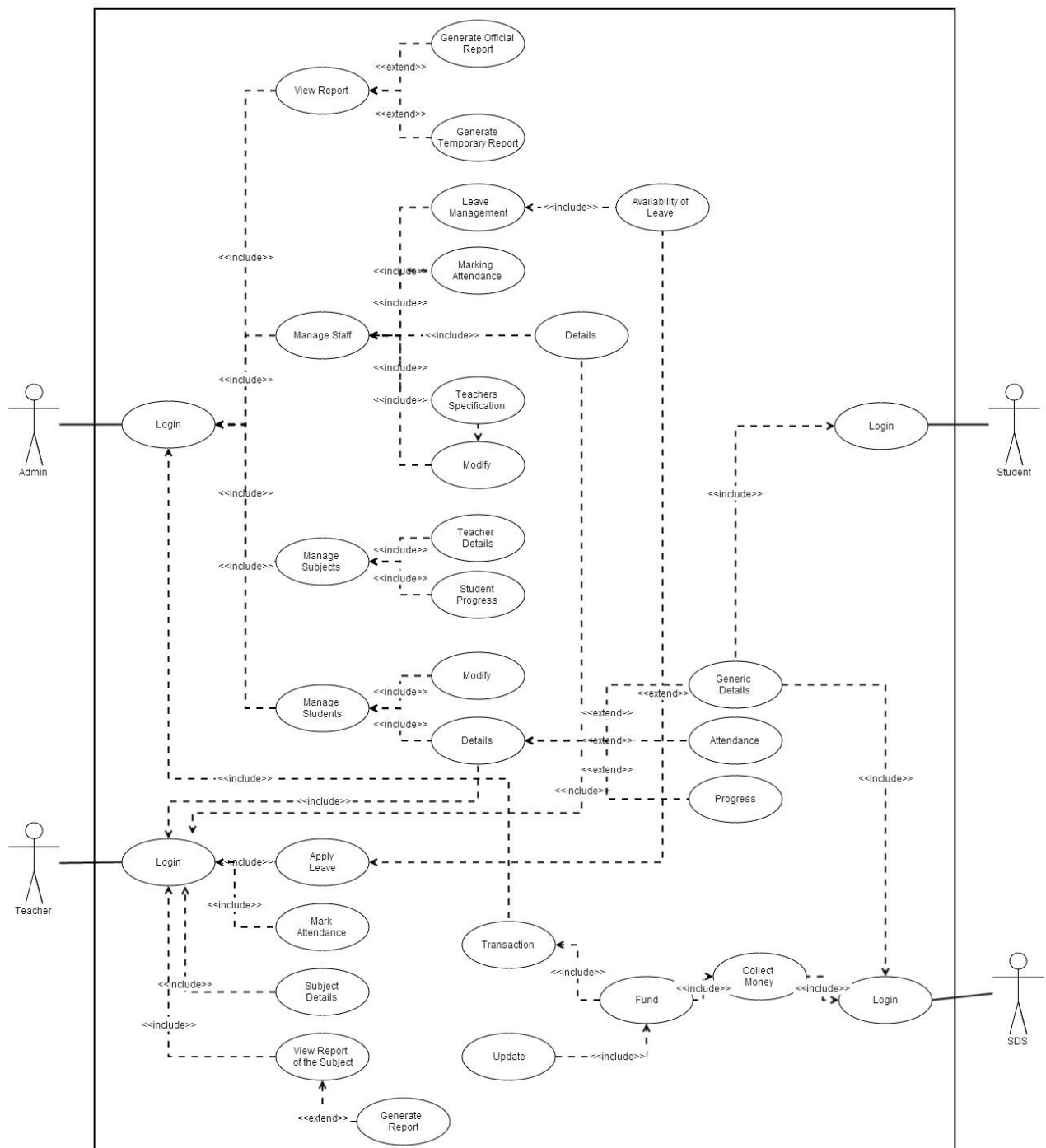

Figure Example of use-case diagram.

The functional requirements of the system can be documented as above by using this tool.

Use case diagram

Use case Diagram is used for analyzing by gathering requirements.

Vision

After analyzing the system and its capabilities, the corresponding vision can be pointed out as follows.

- Uplift the efficiency of school by managing the Human Resources, Financial Transactions and Information Analysis properly.
- Make the administration of the school the best in the zone, by generating the essential student's progress related reports, analyzing information about evaluations, maintaining the vital details about staff members and students and efficiently managing financial resources.

Business Case for the system

Business case summary

Sri Lanka is a country which has free education and it always try to enhance the overall quality of government education. Schools are the preliminary stage of education. So schools should be developed more than any stage of the education.

Even though world has reached the top of information technology age Sri Lankan government schools still using inefficient manual student progress evaluation, staff management ,and recourses management systems. Parents, students, teachers and administration have to put large effort to analyze information about students, staff and resources. Also most of the schools do not process or maintain vital information about some important areas such as overall progress or effectiveness of evaluation methods. Almost all the schools still use time consuming manual record book and report card evaluation methods.

The intent of this project is to introduce information management system to enhance the prevailing information analyzing and resources handling methods in efficient way.

Anticipated outcomes

- After every term of 4 moths 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 vise, subject vise, class vise and grade vise.
- After every year generate progress reports and send them to Zonal education center.
- Every graded evaluation of student which done by school vise or class vise or subject vise will be added to system daily.
- Efficient leave management system which inform administration about availability of teachers for a specific subject for that day and also the availability of leaves.
- An efficient method to find vital information about staff and subjects when recruiting new members to staff.

Problem statement

- Conflicts have being occurred between the school and parents regarding school development funds which collect infrequently.

- 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 educational state of a student 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.

- Administration cannot handle leave management system efficiently.

- Hard to gather information about present staff when recruiting new staff members.

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 much easier than before. Also funds gathered for develop school infrastructure facilities which collect from students can be handled in conflict less manner and without exceeding the limit. Also an efficient leave management system and staff member detail analysis system will be developed.

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Cost

It wills cost4 months to develop the system.

Scope of the system

From this project we are expecting to give efficient and effective system for the Madurawala Maha Vidyalaya to enhance school performance and qualities among the area.

The main requirement of the client is attain automated system for the manual process of report generating, leave management, student progress evaluation, and analyze the attendance and resource management.

By analyzing the requirement of the client the by the system provide following goals

- Provide appropriate platform to generate official reports and to view details term by term, subject wise and overall.
- Provide access to administration to manage teachers leaves while accessing pervious attendance are made by teachers and add or edit details of them.
- Ease of access to view progress of students by individually and group wise as needed for the staff to their future plans.
- Analyze the data through past years of the school and provide useful details and graphs to understand current condition.
- Preview student development society fund transactions and updates by secured interface.
- Procure access to the students to preview their own attendance, progress and achievements made so far.
- Interconnect parents and school via web access system to increase collaboration.

Within this system boundary we are expecting to fulfill client ideas and ease access to their manual process.

Gantt chart for the System

Tasks	Start Date	End Date	Person Hours
Interview Client.	07/10/14	07/10/14	4
Requirements Gathering	07/11/14	07/12/14	12
Prioritize Requirements.	07/13/14	07/13/14	4
Data Gathering for Relevant Requirements	07/15/14	07/19/14	30
Scheduling	07/19/14	07/21/14	12
Database Designing.	07/22/14	07/27/14	60
Database Development.	07/28/14	07/31/14	40
Database Testing.	08/01/14	08/02/14	12
Data Manipulation of Database.	08/03/14	08/06/14	24
Database Testing.	08/07/14	08/08/14	12
Student Progress Designing and Development.	08/09/14	08/12/14	9
Student Progress Testing.	08/13/14	08/14/14	12
Progress of Student Attendance Designing and Development.	08/13/14	08/14/14	16
Progress of Student Attendance Testing	08/15/14	08/16/14	12
Leave Management System Designing and Development.	08/16/14	08/18/14	24
Leave Management System Testing	08/19/14	08/20/14	12
Finance Management System Designing and Development.	08/20/14	08/23/14	24
Finance Management System Testing.	08/24/14	08/25/14	12
Gathering Data for Progress Report.	08/26/14	08/29/14	32
Designing the Template of Progress Report	08/30/14	08/30/14	10
Progress Report Developing.	08/31/14	09/02/14	18
Progress Report Testing.	09/03/14	09/04/14	12
GUI Designing.	09/05/14	09/07/14	24
GUI Developing.	09/08/14	09/11/14	24
GUI Testing.	09/12/14	09/13/14	16
Implementing the System.	09/14/14	09/23/14	80
Testing the System.	09/24/14	09/29/14	60
Support Client to Use the System.	09/30/14	10/09/14	40

#	Tasks	Start Date	End Date
1	Interview Client.	07/10/14	07/10/14
2	Requirements Gathering	07/11/14	07/12/14
3	Prioritize Requirements	07/13/14	07/13/14
4	Data Gathering for Relevant Requirements	07/15/14	07/19/14
5	Sheduling	07/19/14	07/21/14
6	Database Designing	07/22/14	07/27/14
7	Database Development.	07/29/14	07/31/14
8	Database Testing.	08/01/14	08/02/14
9	Data Manipulation of Database.	08/03/14	08/06/14
10	Database Testing.	08/07/14	08/08/14
11	Student Progress Designing and Development	08/09/14	08/12/14
12	Student Progress Testing	08/13/14	08/14/14
13	Progress of Student Attendance Designing and Development.	08/13/14	08/14/14
14	Progress of Student Attendance Testing	08/15/14	08/16/14
15	Leave Management System Designing and Development.	08/16/14	08/18/14
16	Leave Management System Testing	08/19/14	08/20/14
17	Finance Management System Designing and Development.	08/20/14	08/23/14
18	Finance Management System Testing.	08/24/14	08/25/14
19	Gathering Data for Progress Report.	08/26/14	08/29/14
20	Designing the Template of Progress Report	08/30/14	08/30/14
21	Progress Report Developing.	08/31/14	09/02/14
22	Progress Report Testing.	09/03/14	09/04/14
23	GUI Designing.	09/05/14	09/07/14
24	GUI Developing.	09/08/14	09/11/14
25	GUI Testing.	09/12/14	09/13/14
26	Implementing the System.	09/14/14	09/23/14
27	Testing the System.	09/24/14	09/29/14
28	Support Client to Use the System.	09/30/14	10/09/14