



ARANDIA COLLEGE SCHOOL SYSTEM

SYSADD 1



DECEMBER 17, 2014

IAN JASPER GUSI
SHEANNEL BUENAVENTURA

Contents

About Arandia	2
EVENT TABLE	3
Student/Parent	3
Registrar's Event Table	4
Administrator's Event Table	4
Subject Teacher	5
Adviser's event table	5
DATA FLOW DIAGRAM	6
CONTEXT FLOW DIAGRAM	7
ACTIVITY DIAGRAMS	8
ENTITY RELATION DIAGRAM (ERD)	10
DATA DICTIONARY	11
USE CASE	13
COMMUNICATION DIAGRAM	16
DEPLOYMENT DIAGRAM	17
INTERACTION OVERVIEW	18
PACKAGE DIAGRAM	19
TIMING DIAGRAM	19
COMPOSITION DIAGRAM	20
COMPONENT DIAGRAM	20
OBJECT DIAGRAM	21
STATE DIAGRAM	21
SEQUENCE DIAGRAM	23
CLASS DIAGRAM	26

Arandia College School System

About Arandia

Arandia was built as small school for elementary children until they expand and expand and now it has college department. Arandia was the family name of the owner, Mrs. Yolanda Arandia.

It is a non-sectarian private school in Paranaque. The School has only a few Students and also few staff.

The school has its own database system and an administrator manages it. As we keep coming to them, we have notice some problems in their system so that's why we have propose to create a new system for.

General Objective

- To make a system that will benefit both the school and the students and parents.
- To deliver a fully functioning project that services to the needs of the client.

Special Objective

- To make their school more innovative, more efficient and up to date to the trend of technologies
- To make a system that is more friendly and easy to manage.
- To give them less redundancy and inconsistency in their system.

Target Audience

- Arandia College Staffs
- Arandia College Students/Parents

Project Description

- This project is a database system that will help the school be more organize during enrollment and giving out grades. It's also a software that can help Adviser, cashier and so on manage student records, update, view. This project will lessen the work load of the staff and will help them keep track of their students.

EVENT TABLE

Student/Parent

EVENTS	TRIGGER	SOURCE	USE CASE	RESPONSE	DESTINATION
Student/Parent inquires registration and enrollment availability in school	Registration and Enrollment Inquiry	Parents	Check registration and enrollment availability	Registration and enrollment details	Parents, Registrar
Student/Parent logs into the system and gets number queue	Line Queue	Parent/student	Parent/student inputs name and student id number (if student is a returnee) into system and waits to get called	Queue Number	Registrar
Student/Parent pays for enrollment fees	Payment for enrollment	Student/Parent	Pays enrollment fees	Payment details	Finance, Student/Parent

Registrar's Event Table

EVENTS	TRIGGER	SOURCE	USE CASE	RESPONSE	DESTINATION
Registrar gives the list of registration and enrollment requirements	Registration and Enrollment requirements	Registrar	Gives the list of registration and enrollment requirements	Registration and enrollment requirements	Parent, Student
Registrar inform the parent/student regarding enrollment fees	Inform the parent about the balance to be paid	Registrar	Registrar will give the enrollment fee details to the parent/student	Enrollment fee details	Parent/Student
Registrar will verify the payment of the parent	Verification	Registrar	Registrar will Verify/Check Payment at accounting then issues the registration form	Registration form details	Registrar, Parent
The Registrar records the student's information to the system	Record	Registrar	Records particulars about the student	Records Information	Database

Administrator's Event Table

EVENTS	TRIGGER	SOURCE	USE CASE	RESPONSE	DESTINATION
Admin check/ validates the student grade	Student Assessment	Admin	Check/ Validate the student's grade	Accurate and final grade	database

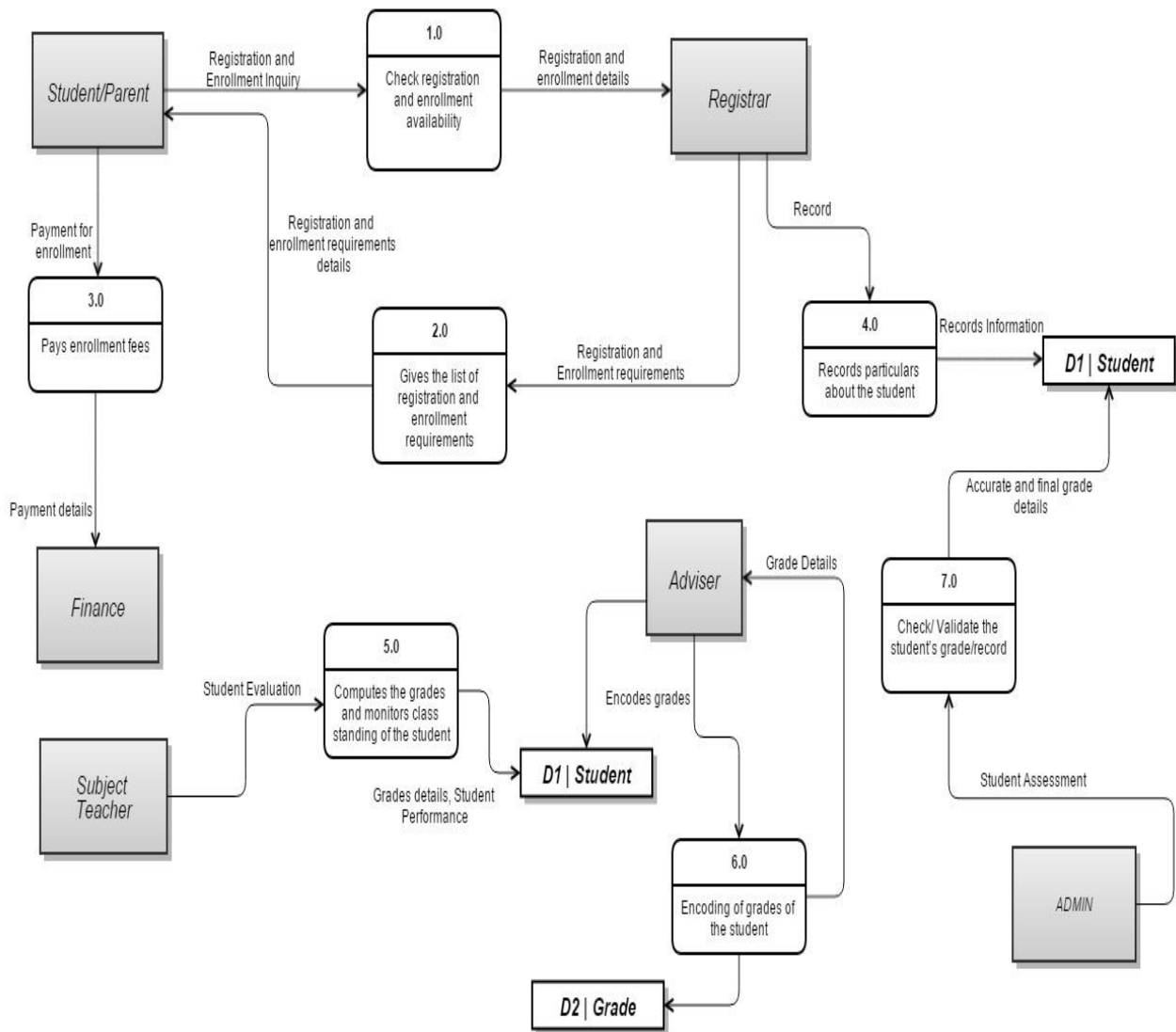
Subject Teacher

EVENTS	TIGGER	SOURCE	USECASE	RESPONSE	DESTINATION
Subject teacher computes the grades and monitor class standing of the student	Student Evaluation	Subject Teacher	Computes the grades and monitors class standing of the student	Grades details, Student Performance	Subject Teacher, Adviser
Subject teacher will encode grade and student standing to system	Encoding	Subject Teacher	Recording of computed grades of the student	Student Grade and Average	Database

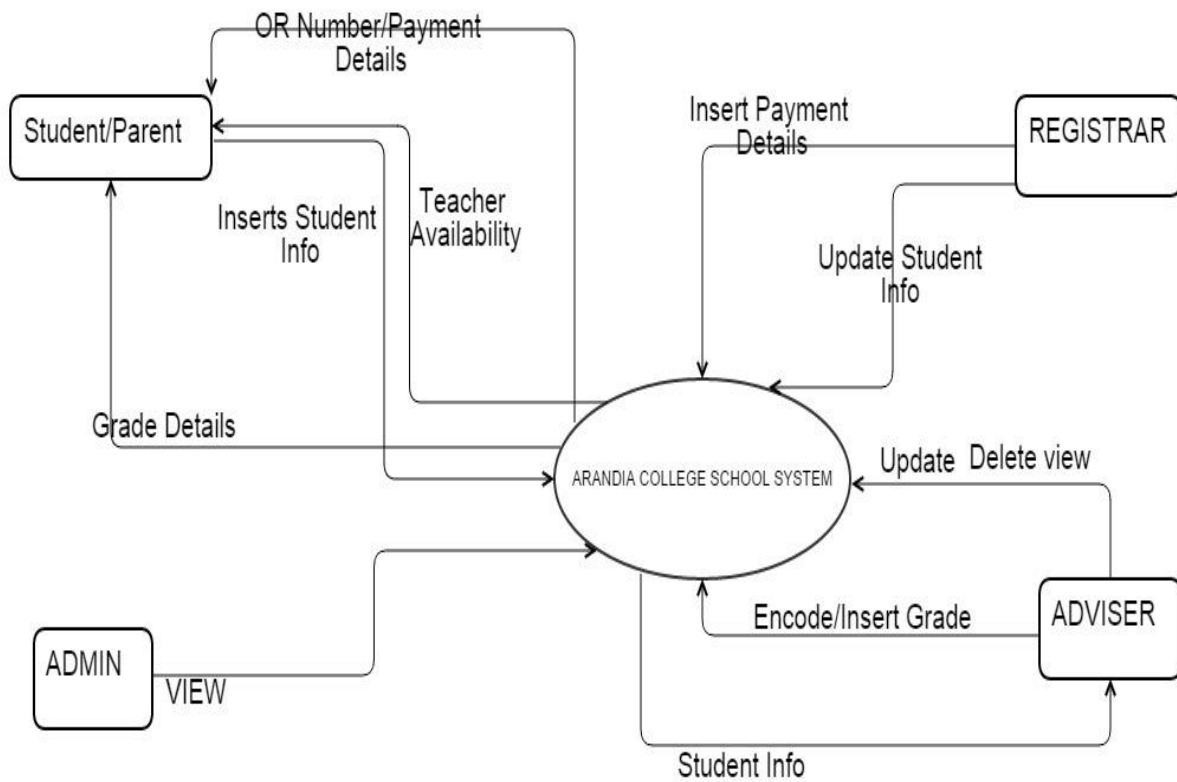
Adviser's event table

EVENT	TRIGGER	SOURCE	USE CASE	REPSONSE	DESTINATION
Adviser encodes grades in report cards of the student and Inserts to the System	Encodes grades	Adviser	Encoding of grades of the student	Grade Details	Adviser
Adviser submits the report cards to the Principal for signing purposes	Signing verification	Adviser	Submit the encoded grades to the Principal for signing verification	Grade Validation	Principal, Adviser
Adviser monitors student grades	Student's grade inquiry	Admin	Grade monitoring	Student's grade	database

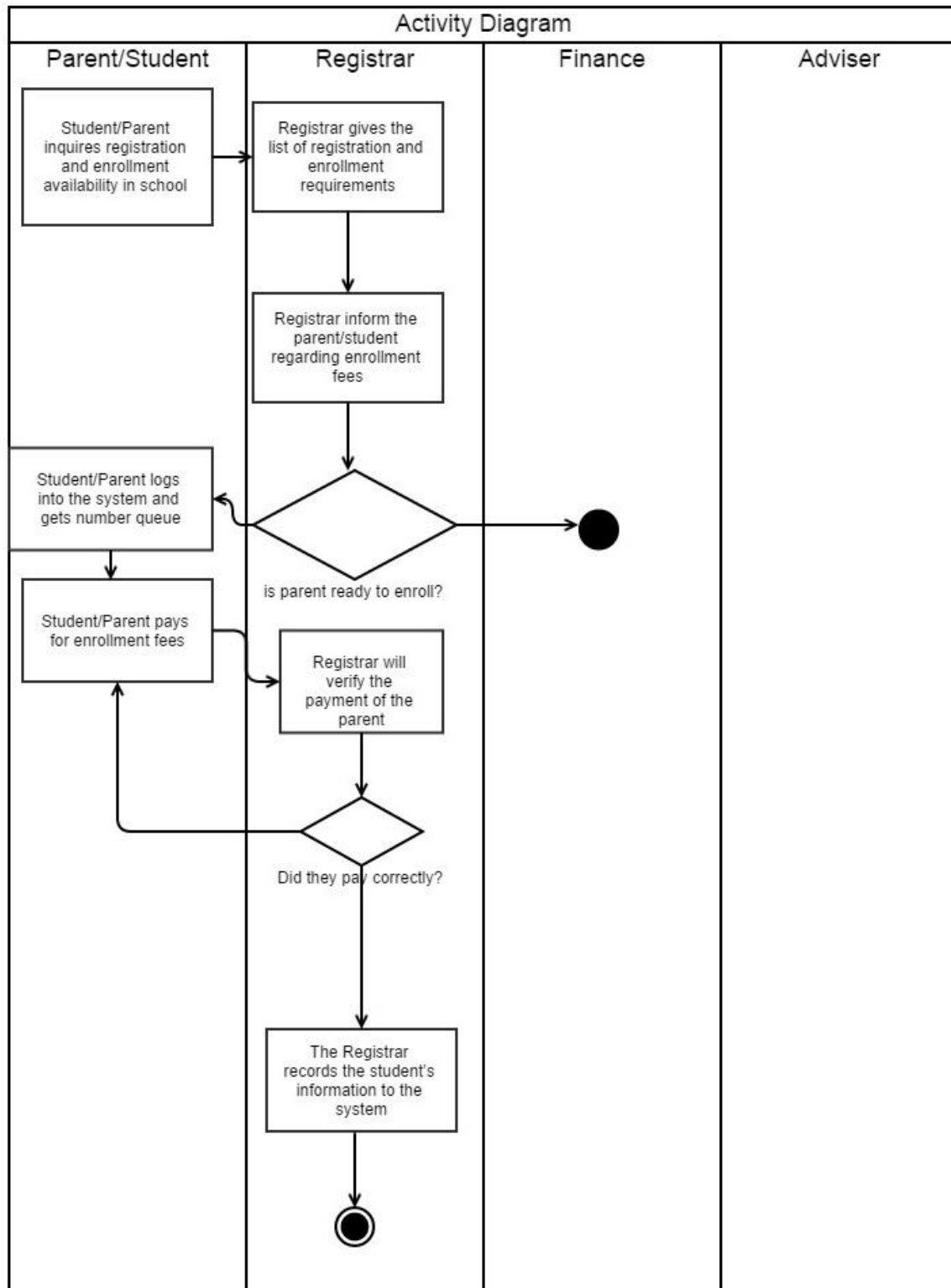
DATA FLOW DIAGRAM

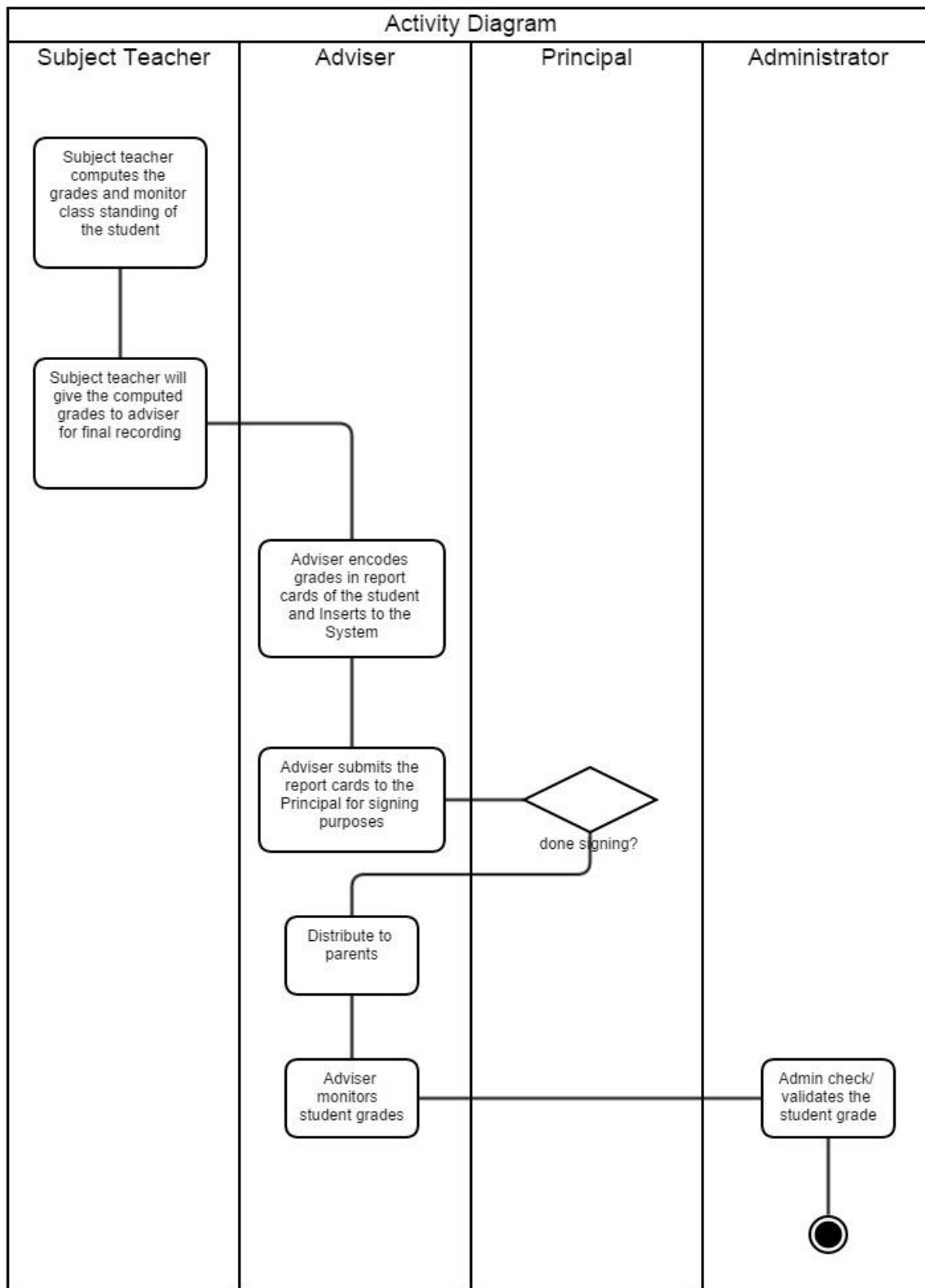


CONTEXT FLOW DIAGRAM

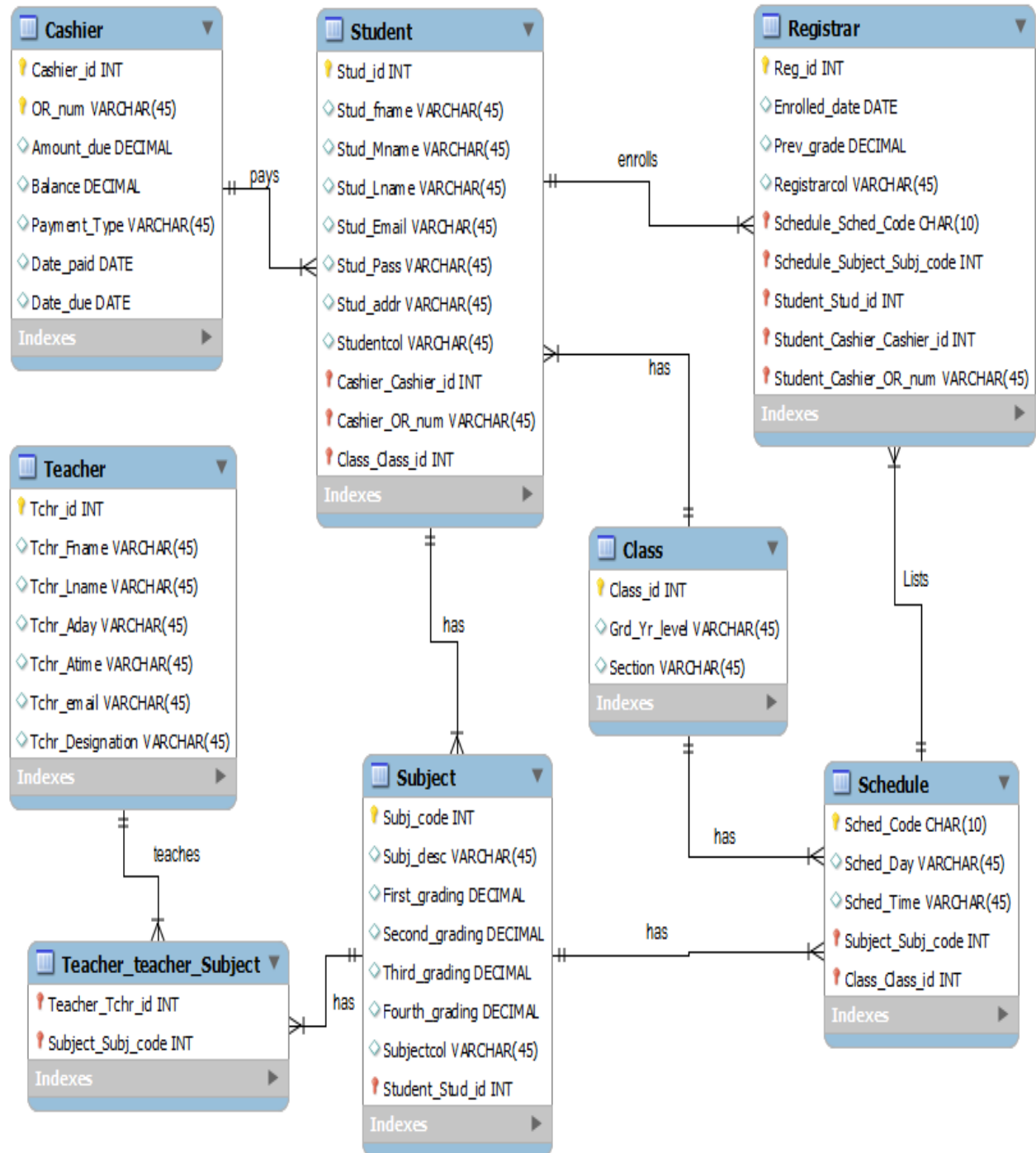


ACTIVITY DIAGRAMS





ENTITY RELATION DIAGRAM (ERD)

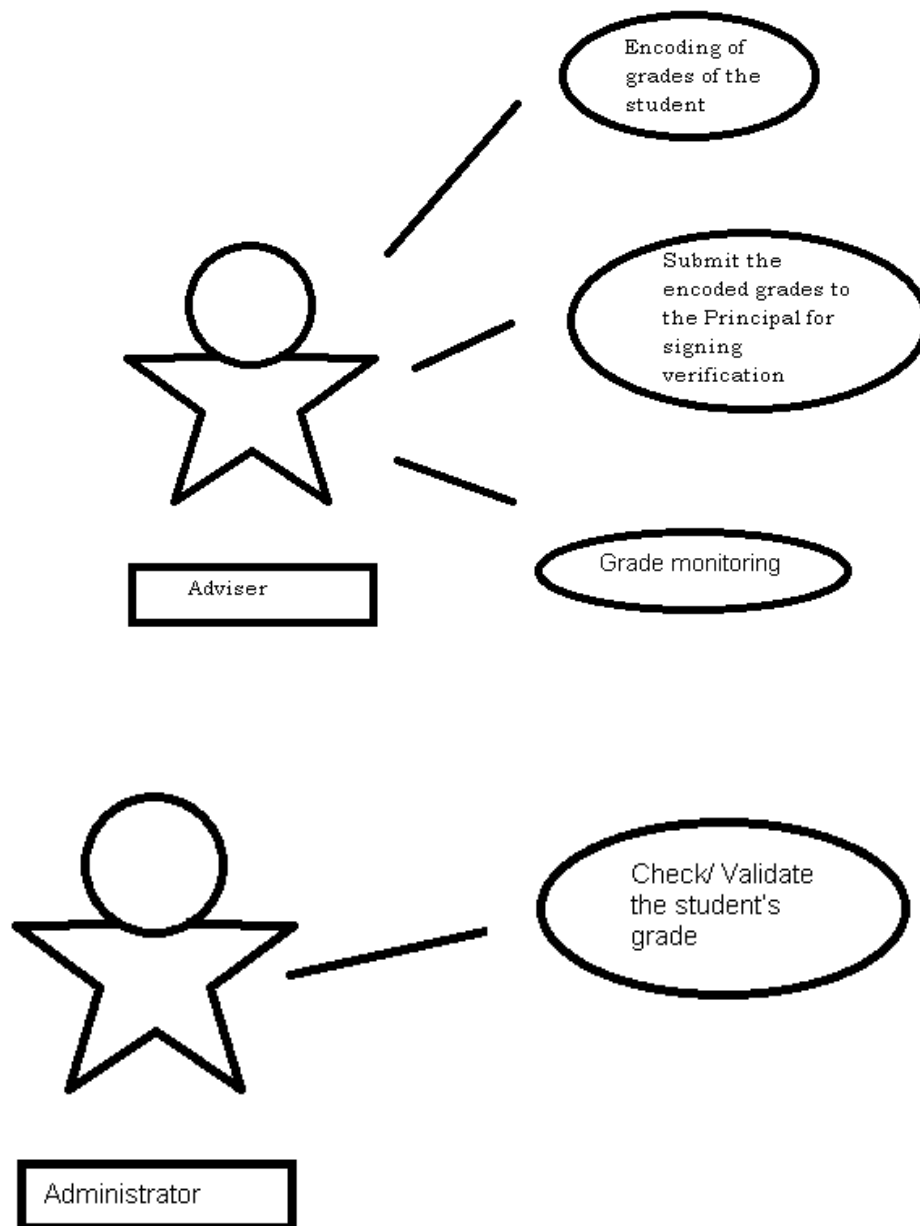


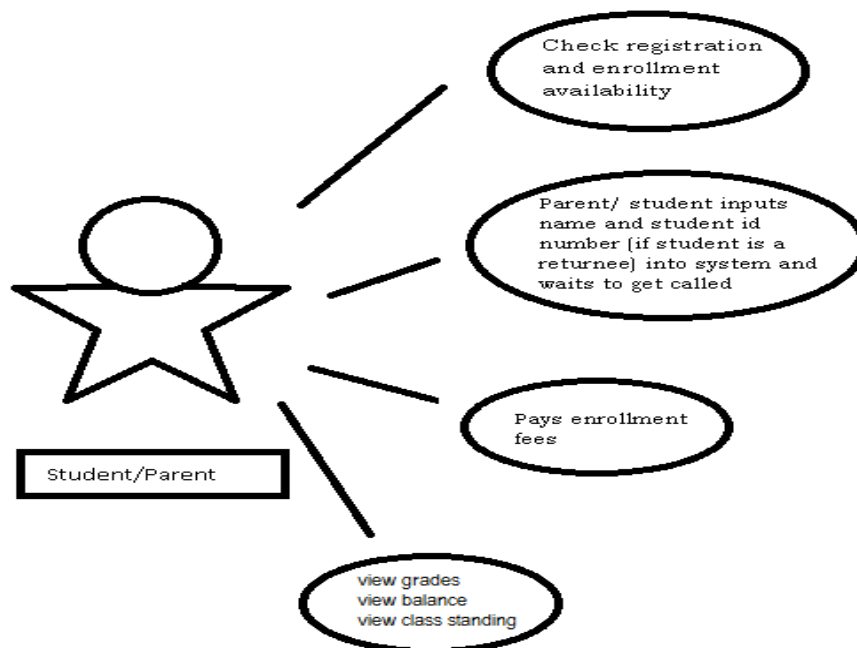
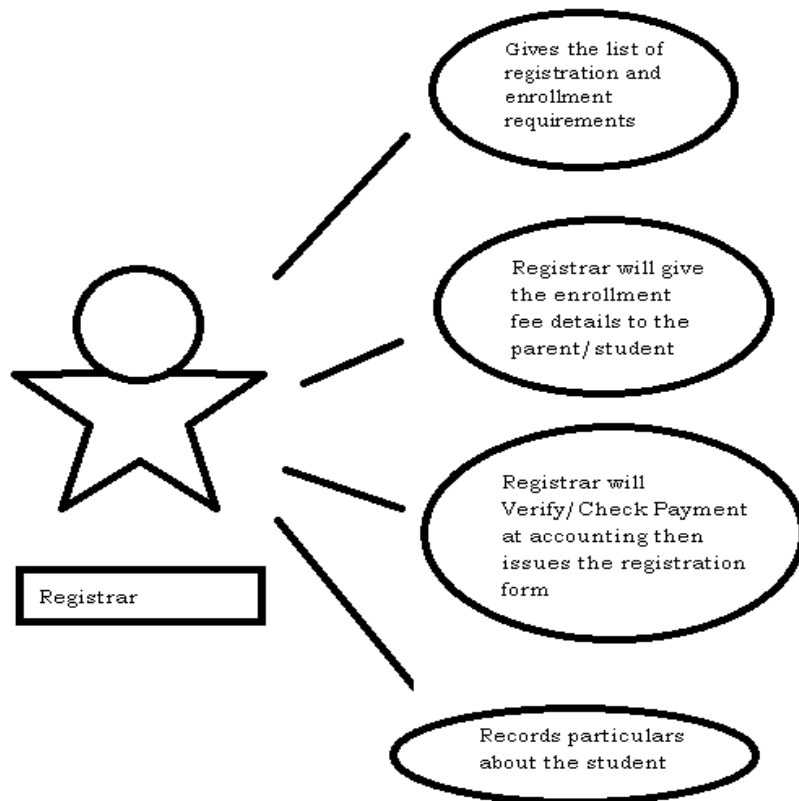
DATA DICTIONARY

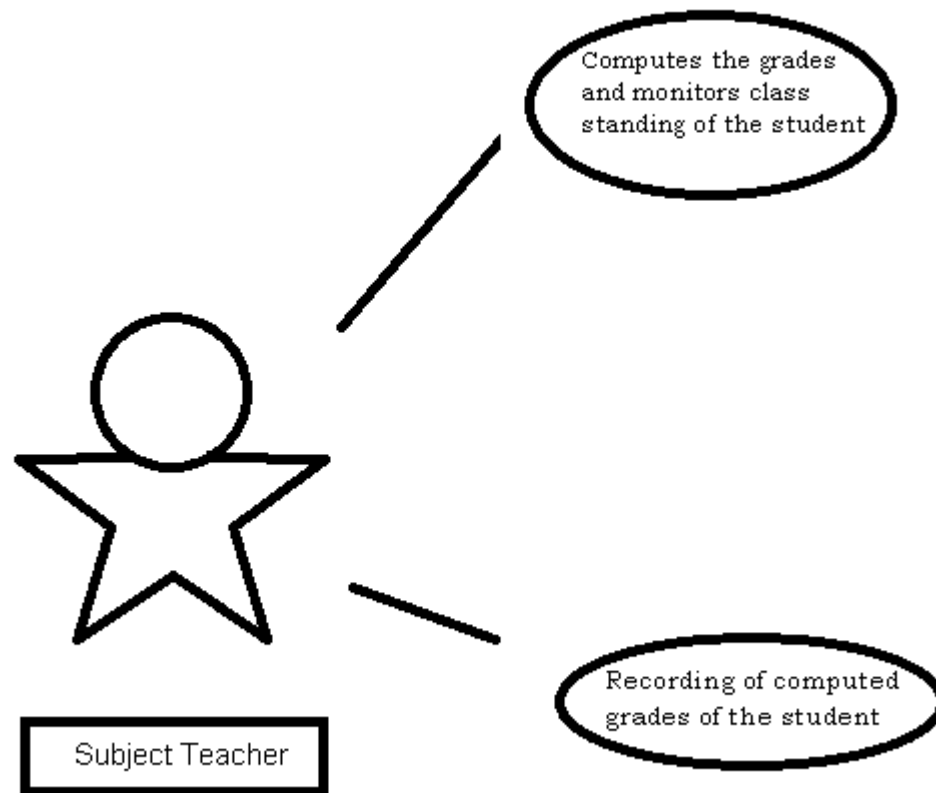
Attributes	Comment	Type	Format	Required	PK	FK	Reference Table
Stud_Id	Student's Id number	int	xxxx-xxxx	Y	PK		
Stud_Fname	Student's First Name	varchar	xxxxxxxx	Y			
Stude_Lname	Student's Last Name	varchar	xxxxxxxx	Y			
Stude_addr	Student's Address	varchar	xxxxxxxx	Y			
Stud_pass	Student's password	varchar	xxxxxxxx	Y			
Stud_Email	Student's Email	varchar	xxxxxxxx	Y			
Class_ID	Class ID Number	int	xxxxxxxx	Y		FK	Class Table
Cashier_ID	Cashier ID number	int	xxxxxxxx	Y		FK	Cashier Table
OR_num	Official Receipt Number	int	xxxxxxxx	Y		FK	Cashier Table
Cashier_ID	Cashier ID number	int	xx-xxxx	Y	PK		
OR_num	Official Receipt Number	int	xxxxxxx	Y	PK		
Amount_Due	Amount Due	decimal	99999.99	Y			
Balance	Remaining Balance	decimal	99999.99	Y			
Payment_Type	Payment Type	varchar	xxx-xxxx	Y			
Date	Date of Payment	date	xx-xx-xx	Y			
Stud_Id	Student's Id Number	int	xxxx-xxxx	Y		FK	Student Table
Tchr_Id	Teacher's Id Number	int	xx-xxxx	Y	PK		
Tchr_Fname	Teacher's First name	varchar	xxxxxxx	Y			
Tchr_Lname	Teacher's Last Name	varchar	xxxxxxx	Y			
Tchr_Atime	Teacher's Availble Time	Time	0:00	Y			
Tchr_Aday	Teacher's Availble Day	varchar	xxxxxxx	Y			
Tchr_Email	Teacher's Email Addd	varchar	xxxxxxx	Y			
Tchr_Designation	Teacher's position	varchar	xxxxxxxx	Y			
Subj_Code	Subject Code	int	xxxxx	Y		FK	Subject Table
Tchr_ID	Teacher's ID Number	int	xx-xxxx	Y		FK	Teacher Table
Class_ID	Class ID Number	int					
Grade-YearLevel	Grade-YearLevel	varchar	xxxxxxxxxx	Y			
Section	Section	varchar	xxxxxxxxxx	Y			
School Year	School Year	year	xxxx	Y			
Tchr_ID	Teacher's ID Number	int	xx-xxxx	Y			

Subj_Code	Subject Code	int	xxxxx	Y		PK	
Subj_Desc	Subject Description	varchar	xxxxxxxxxxx	Y			
First_Grading	First Grading	varchar	99.99	Y			
Second_Grading	Second Grading	varchar	99.99	Y			
Third_Grading	Third Grading	varchar	99.99	Y			
Fourth_Grading	Fourth Grading	varchar	99.99	Y			
Grade_Ave	Grade Average	varchar	99.99	Y			
Stud_ID	Student ID Number	int	99.99	Y		FK	Student Table
Class_ID	Class ID Number	int	xxxxxxxxxxx	Y		FK	Class Table
Reg_ID	Registrar ID Number	int	xxxxxxx	Y			
Enrolled_Date	Enrolled Date	varchar	xx-xx-xx	Y			
Prev_GPA	Previous GPA	varchar	99.99	Y			
Stud_ID	Student ID Number	int	xxxx-xxxx	Y		FK	Student Table
Class_ID	Class ID Number	int	xxxxxxxxx	Y		FK	Class Table
Cashier_ID	Cashier ID Number	int	xxxxxxxxx	Y		FK	Cashier Table
OR_Num	Official Receipt Number	int	xxxxxxxxx	Y		FK	Cashier Table

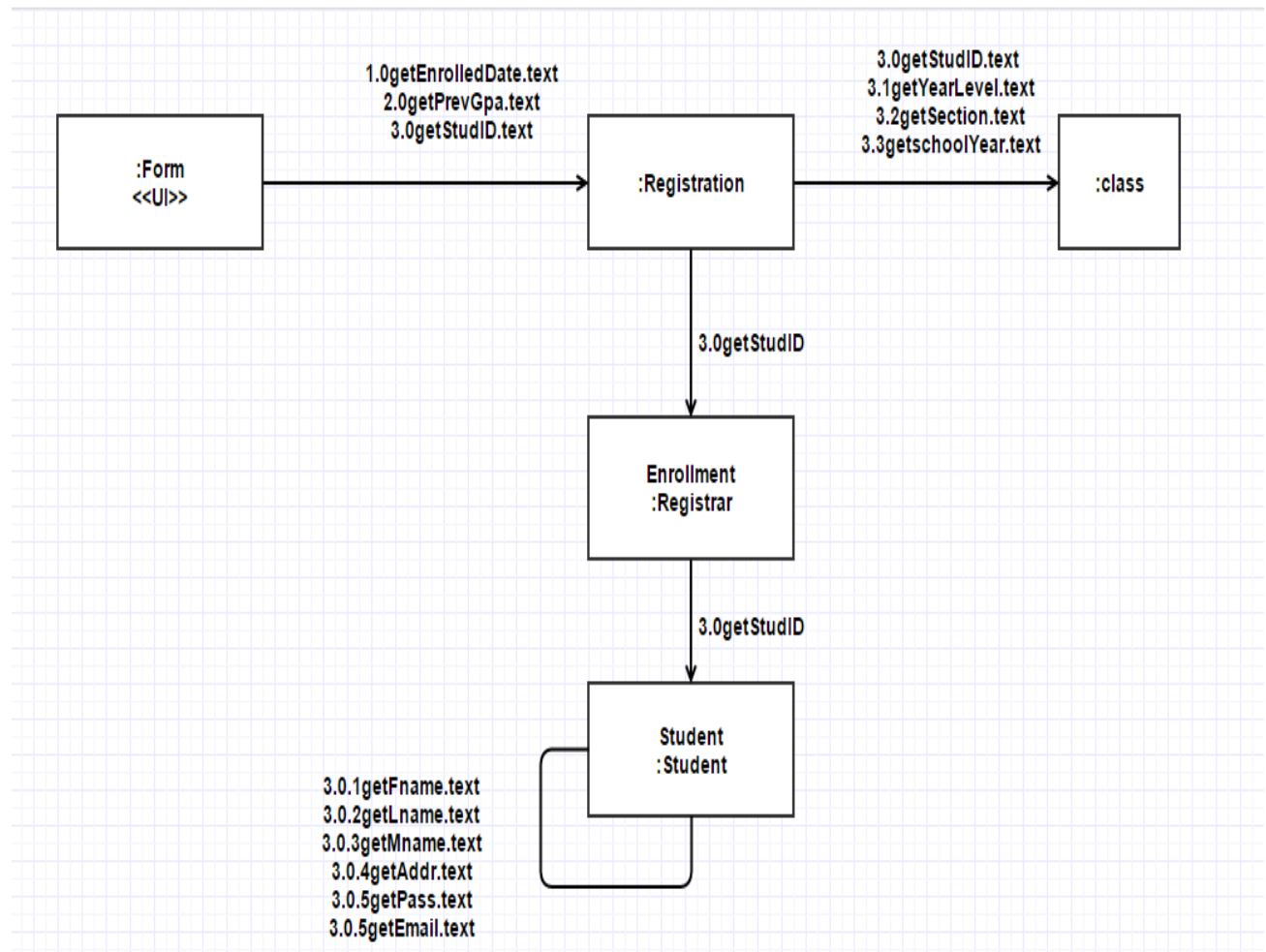
USE CASE



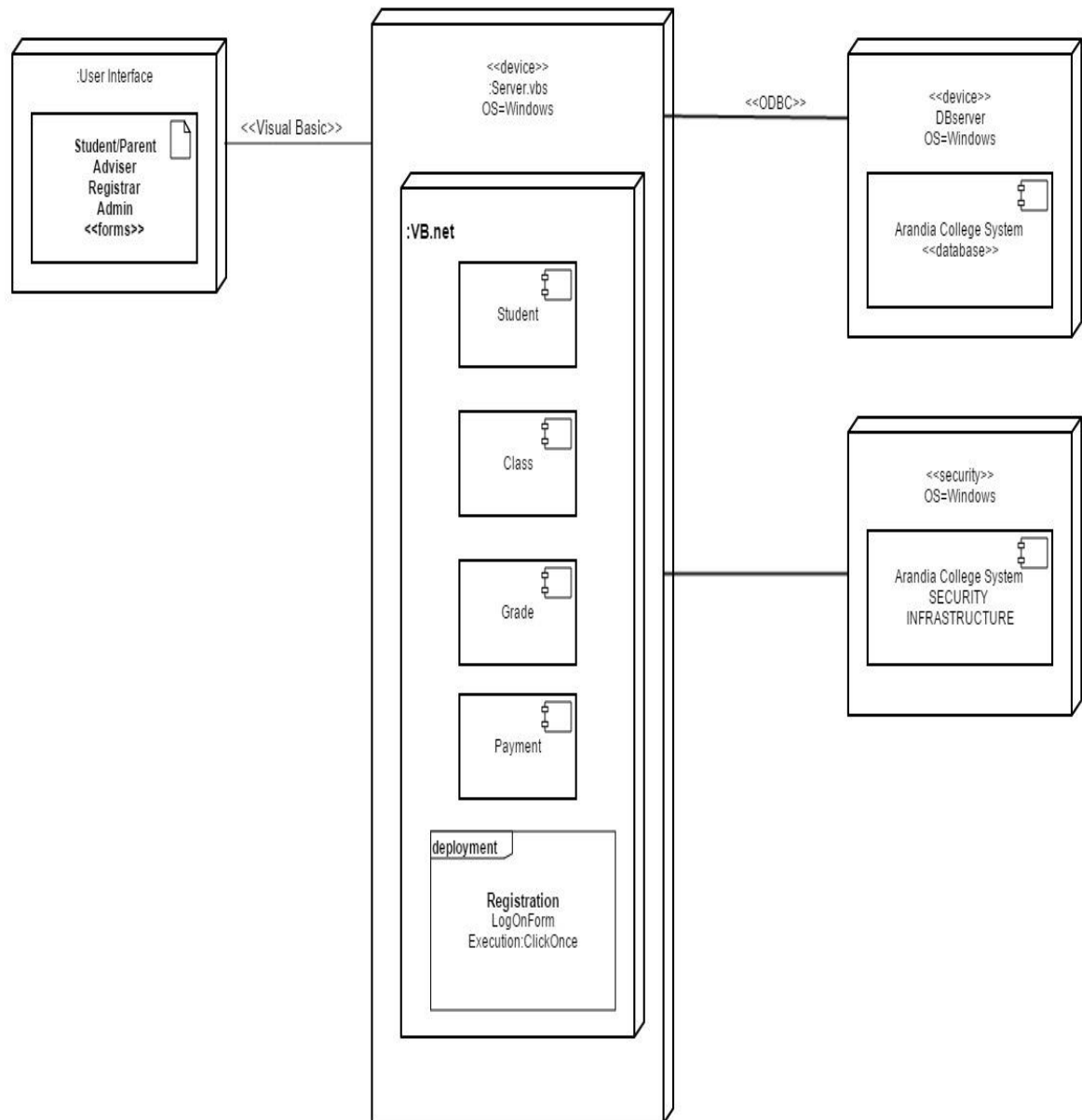




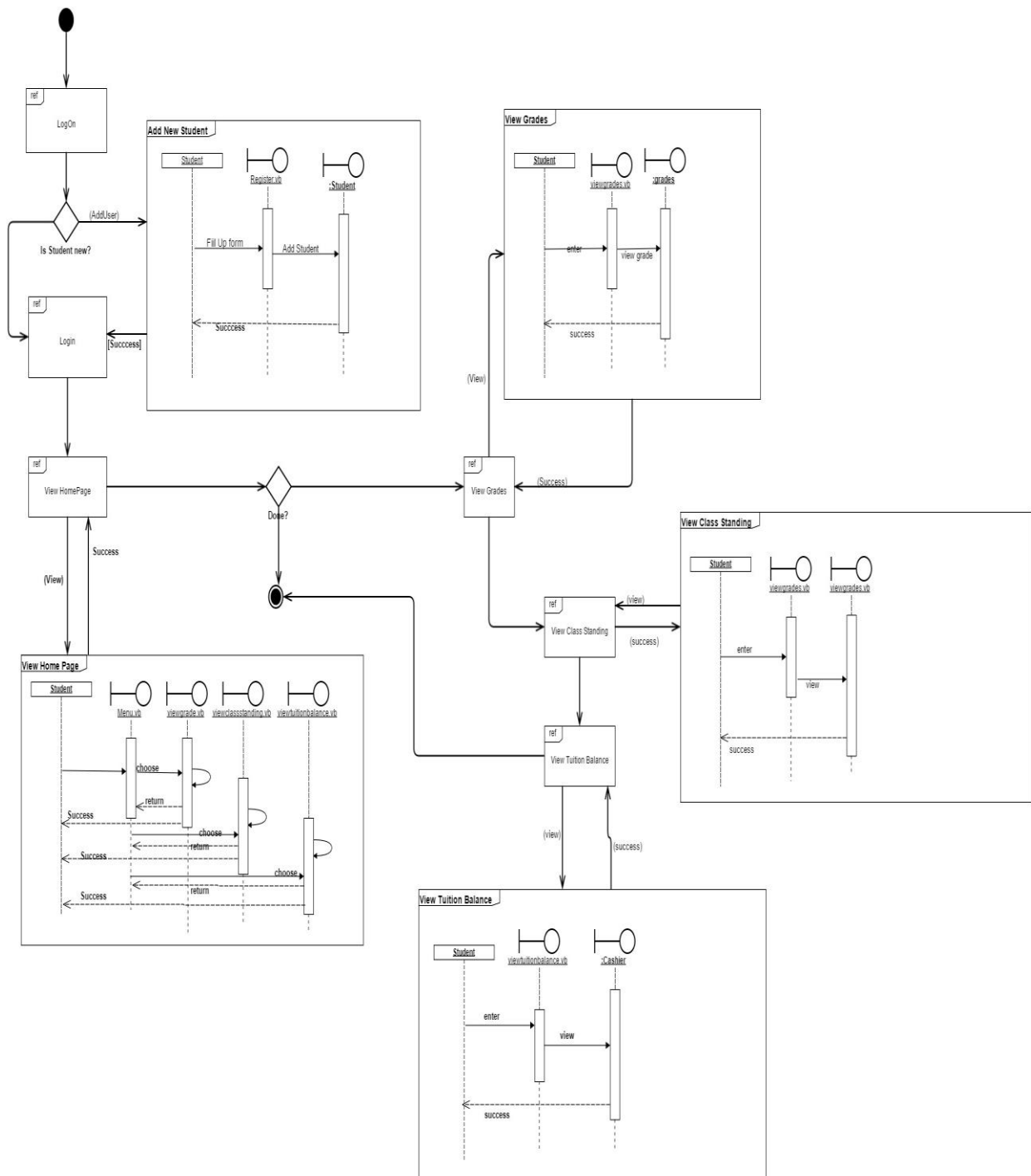
COMMUNICATION DIAGRAM



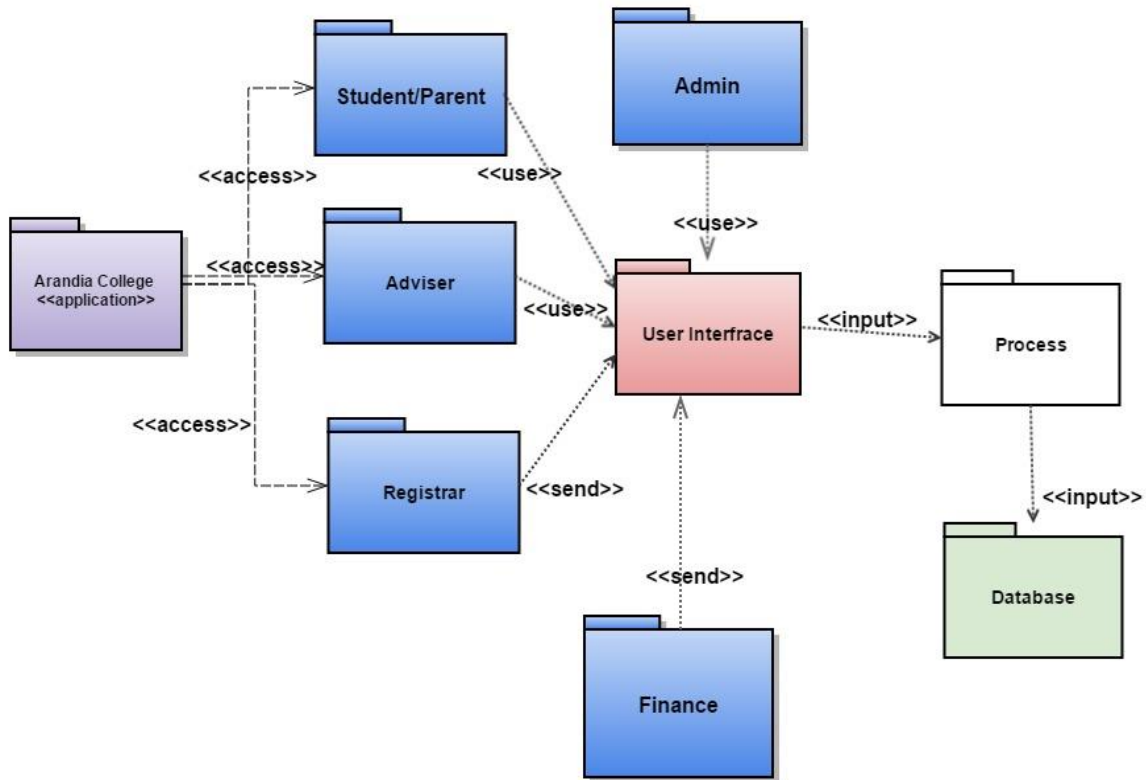
DEPLOYMENT DIAGRAM



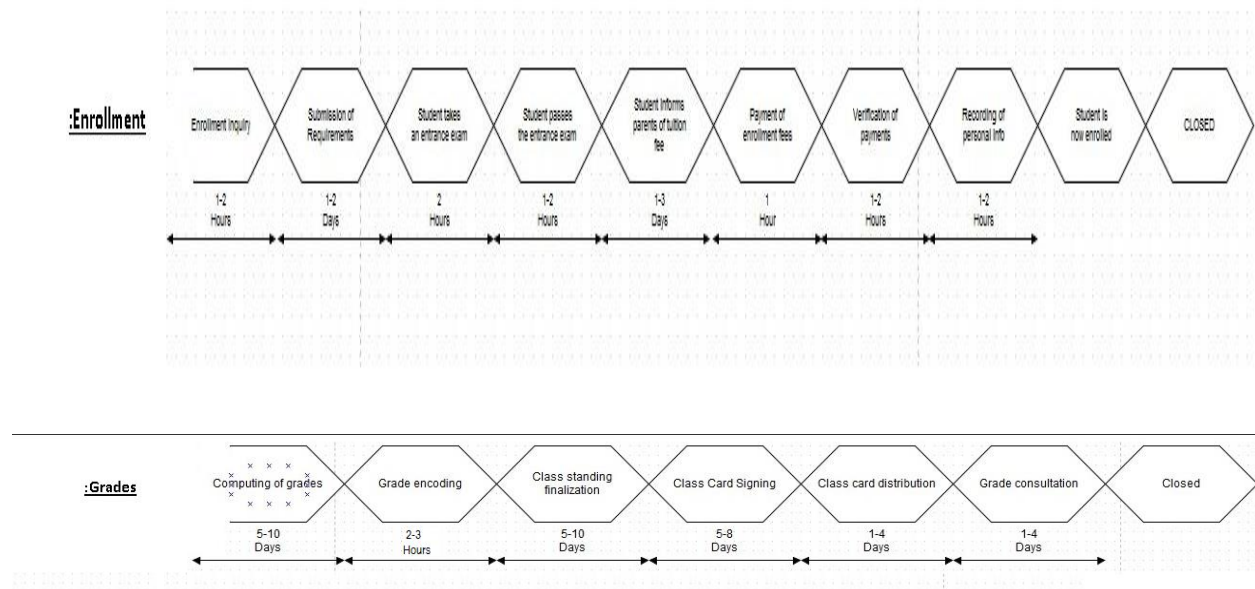
INTERACTION OVERVIEW



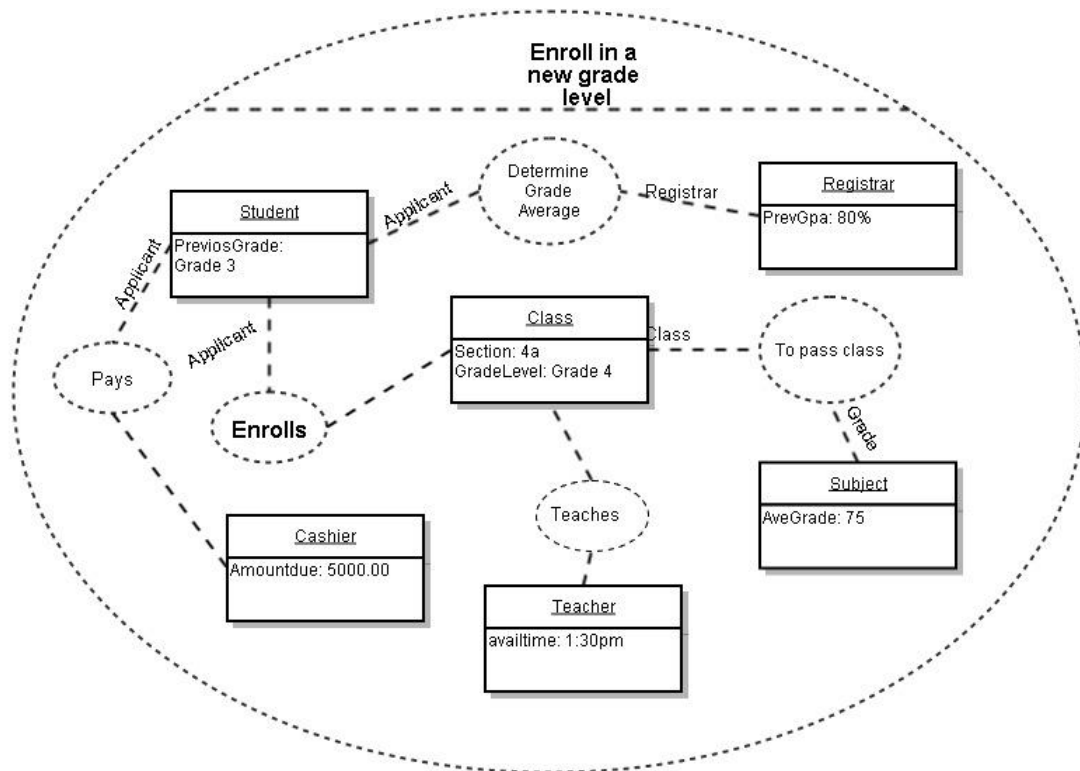
PACKAGE DIAGRAM



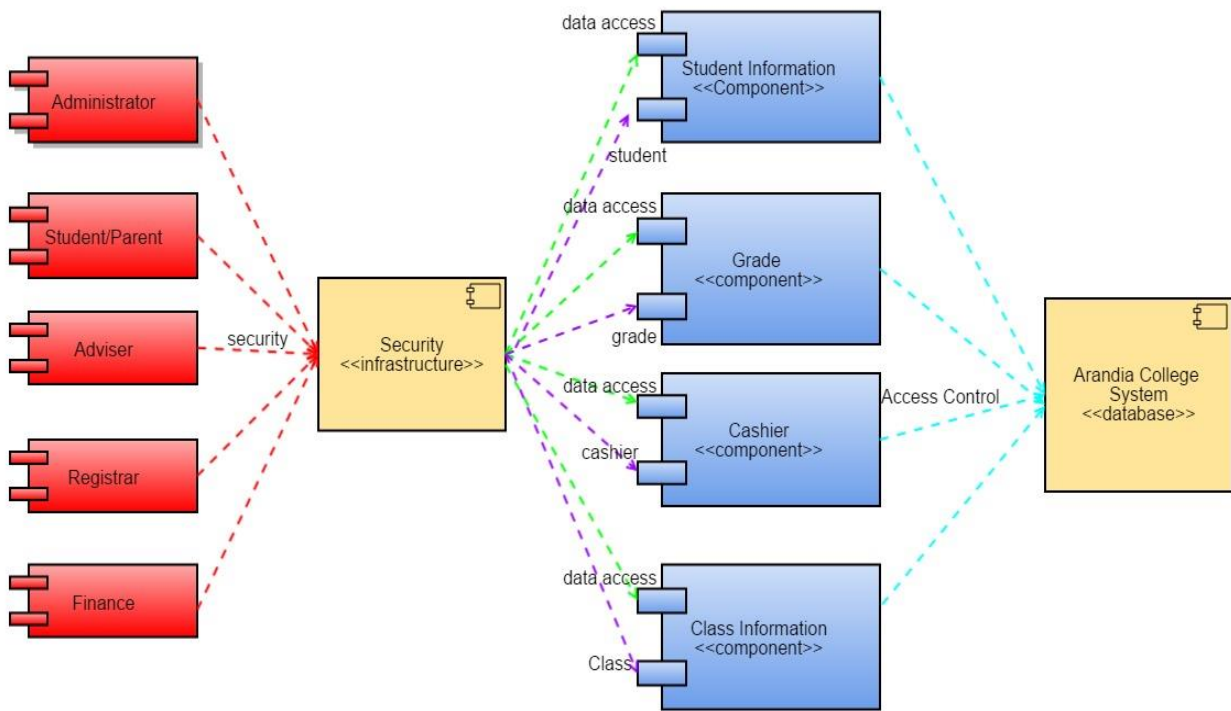
TIMING DIAGRAM



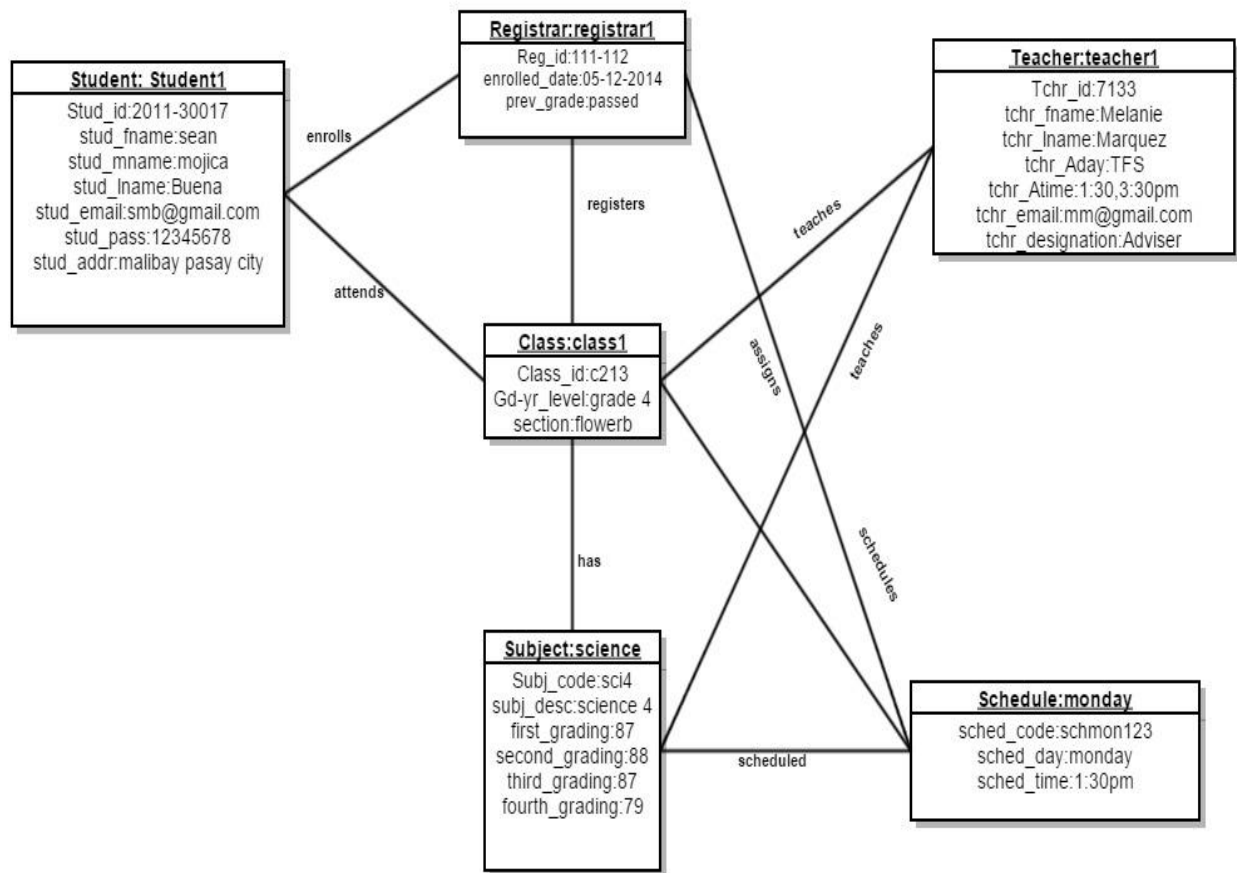
COMPOSITION DIAGRAM



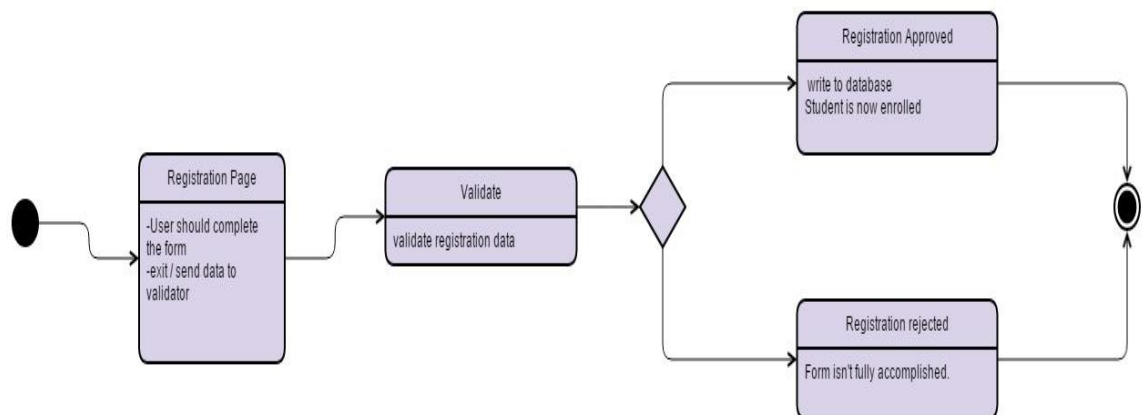
COMPONENT DIAGRAM



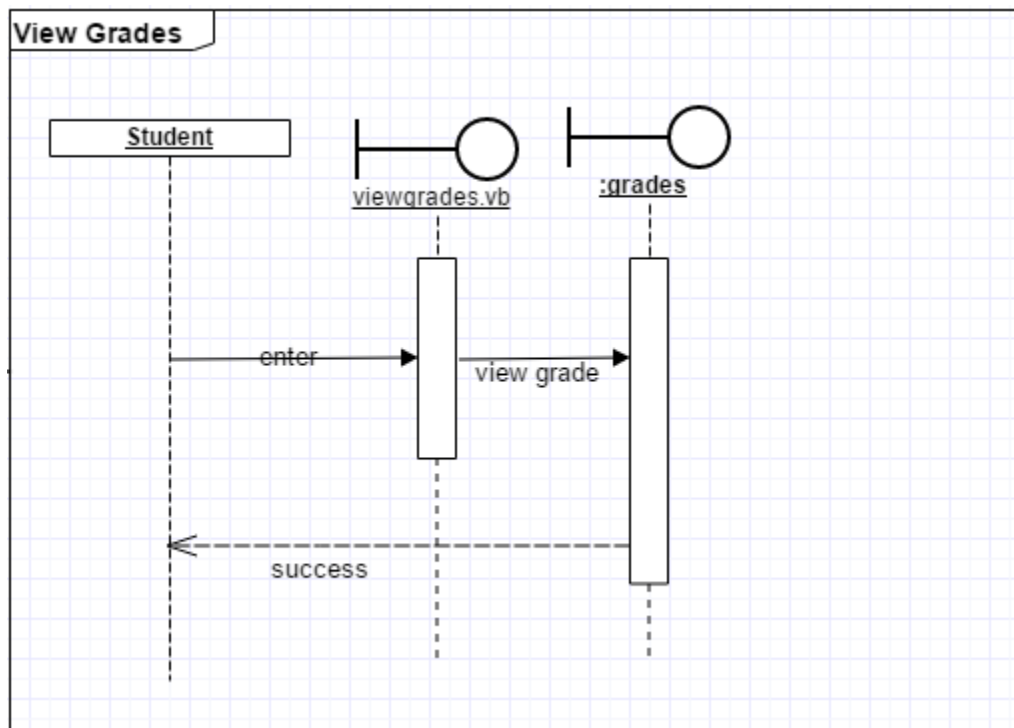
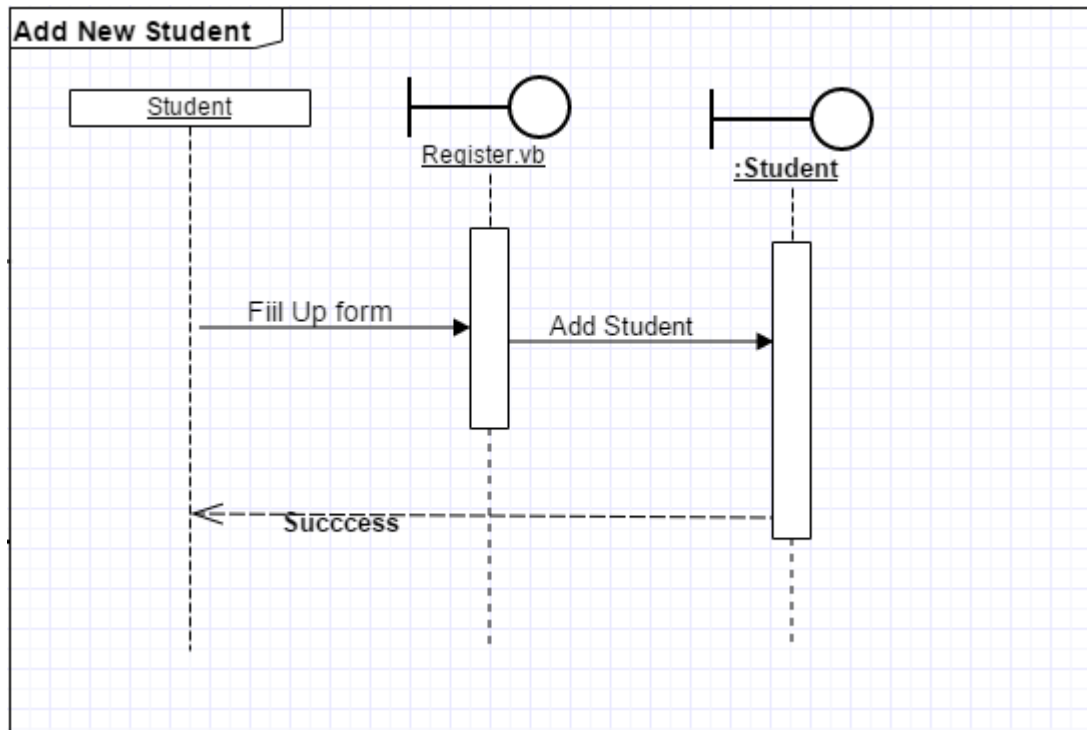
OBJECT DIAGRAM

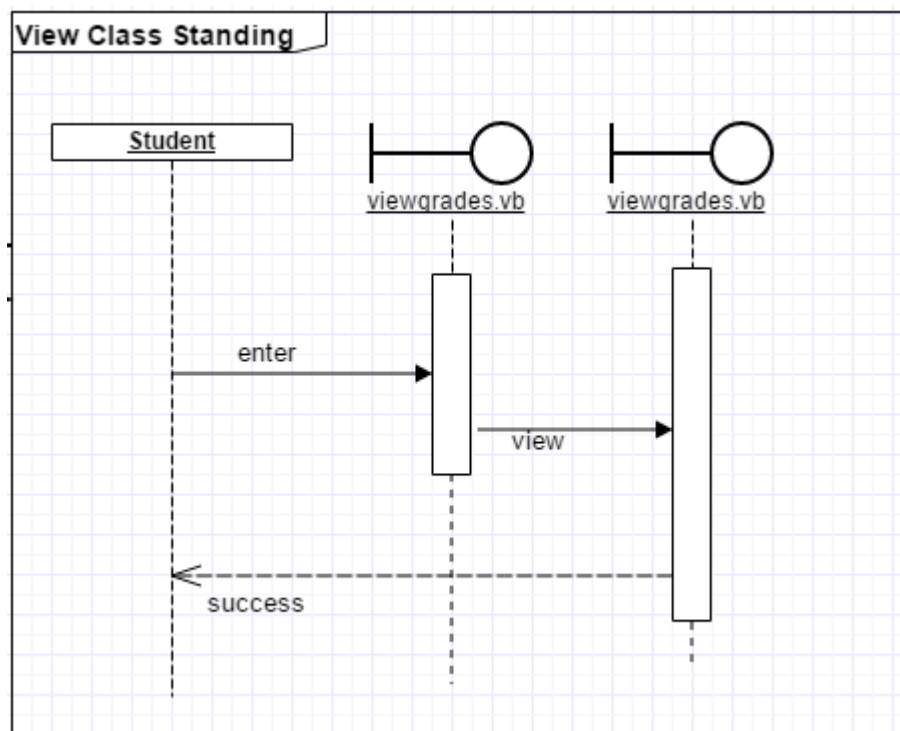
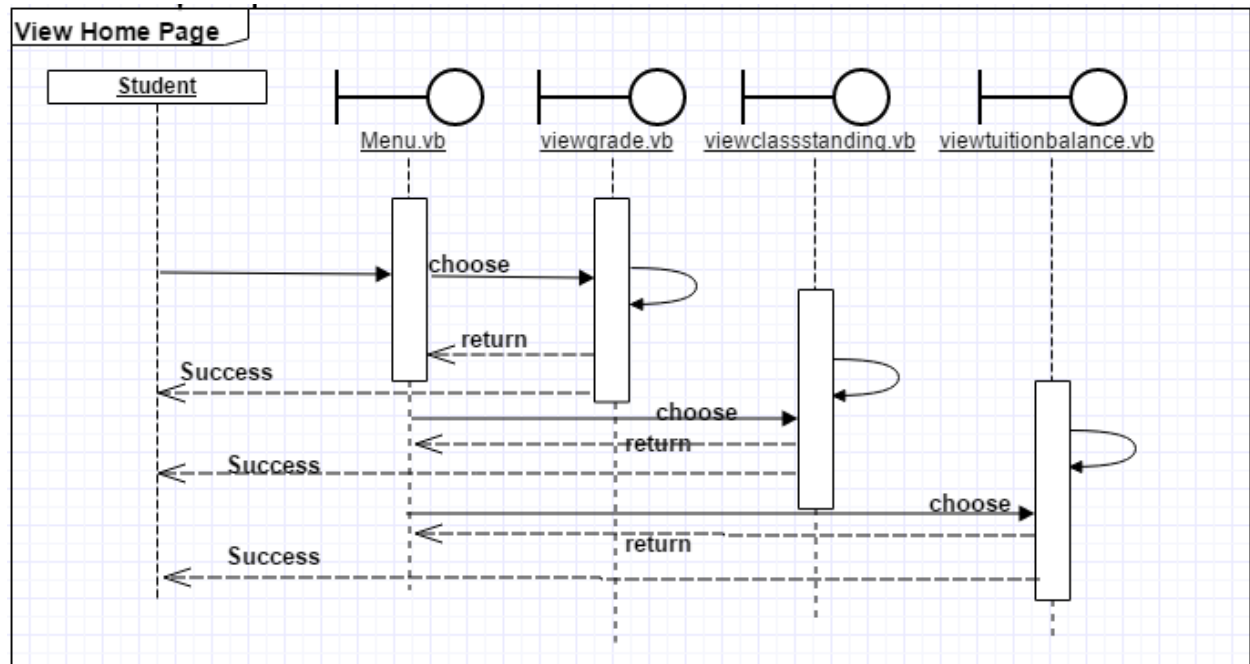


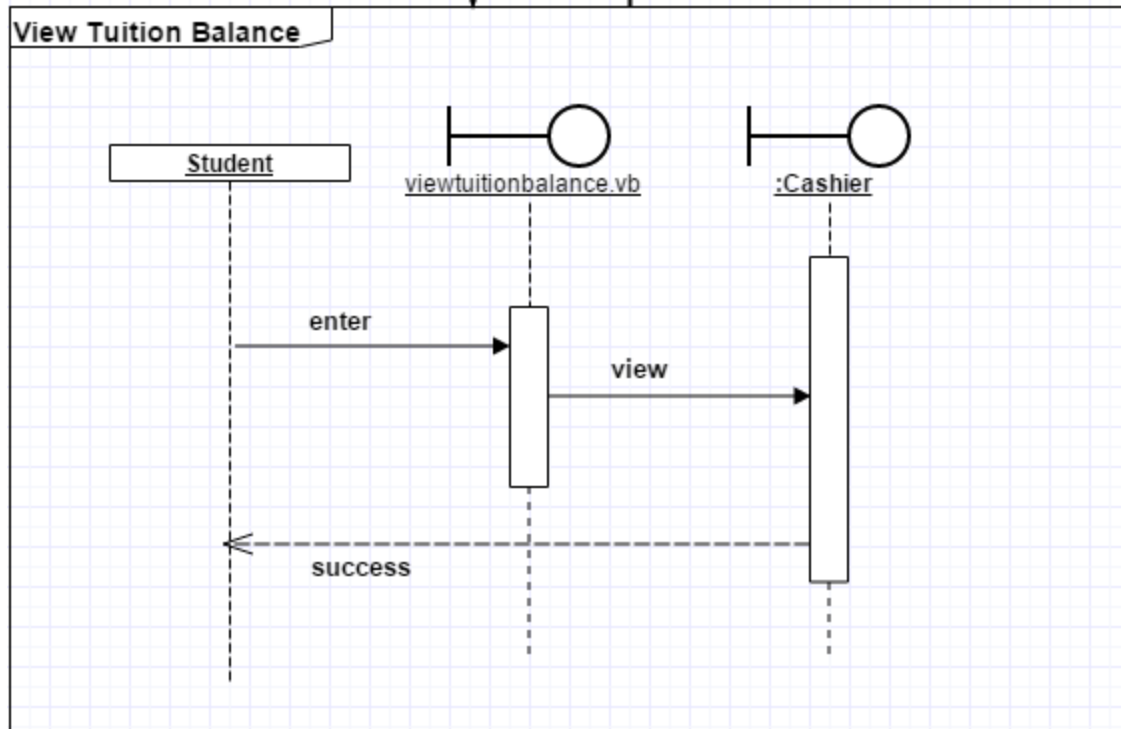
STATE DIAGRAM



SEQUENCE DIAGRAM







CLASS DIAGRAM

