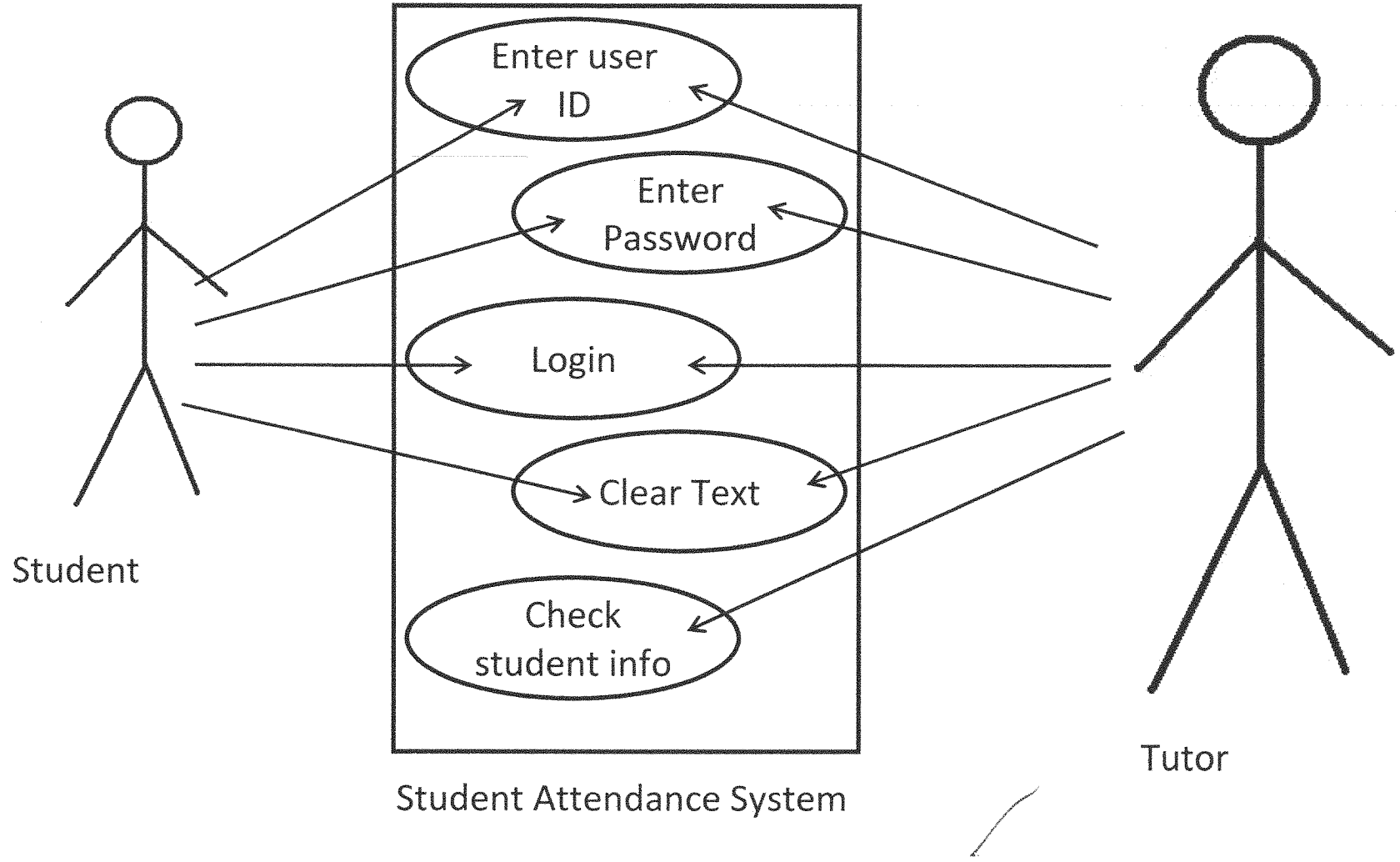
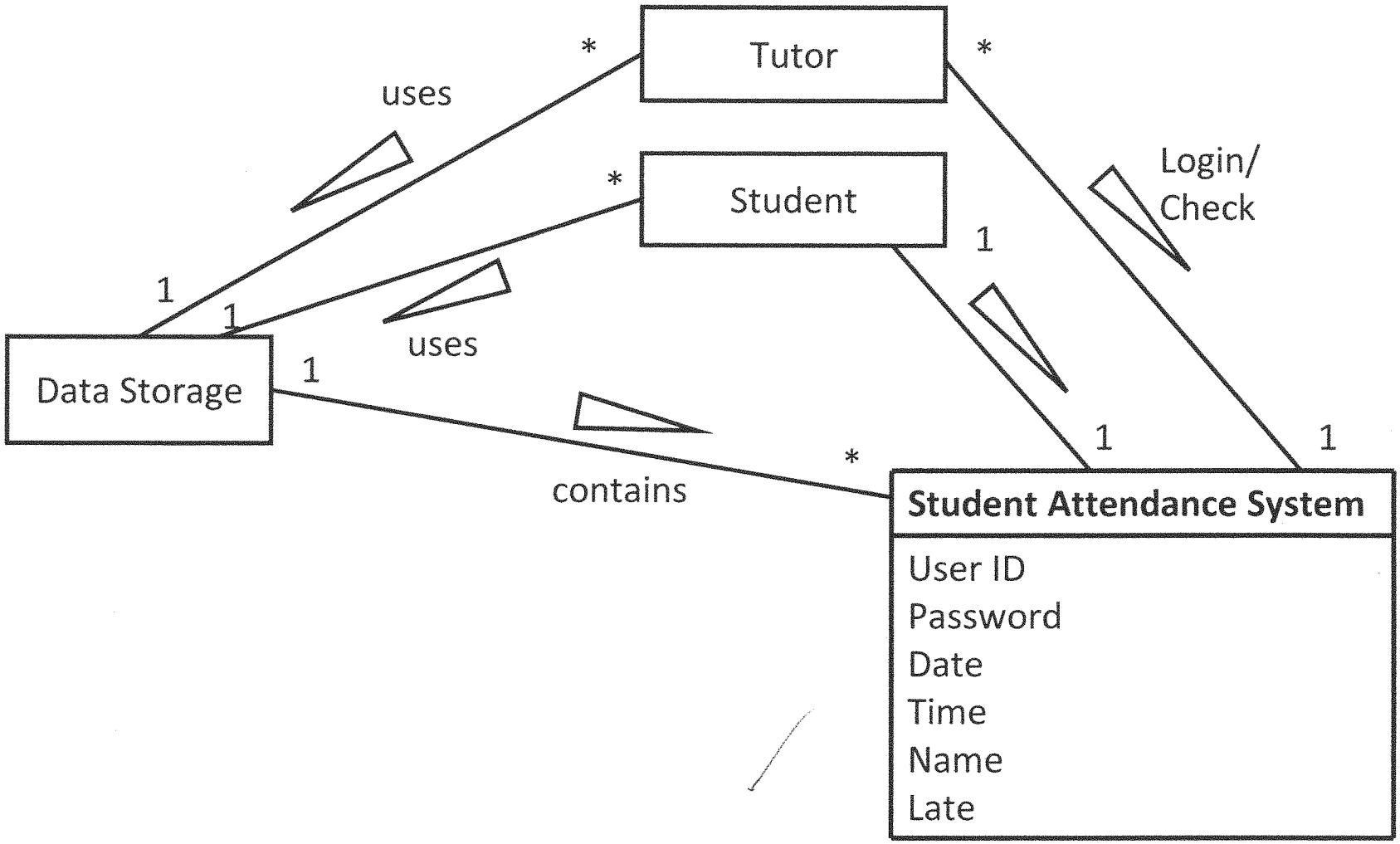
Case Diagram



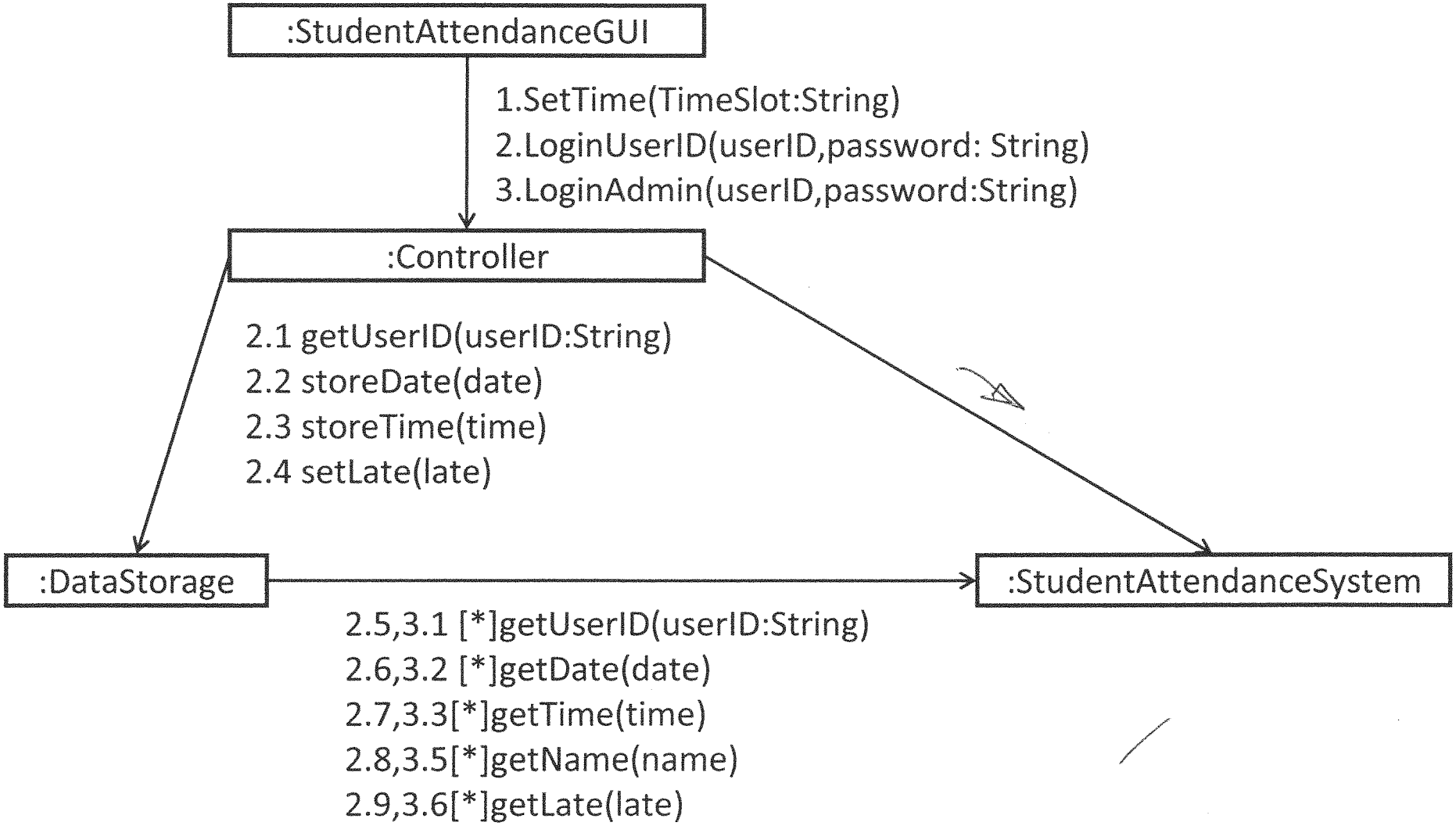
Use-Case

	User		System
		1	Prompt for lesson start time
2	Set lesson start time	3	Prompt for user ID & password
3	Enter user ID & password	4	Check if user ID & password is valid (invaild)
		5	Prompt for user ID & password
6	Enter user ID & password	7	Check if user ID & password is valid (valid)
		8	Check if the user a tutor or student (student)
		9	Display student ID, time and date of login. And store it in dataStorage
10	Enter user ID & password	10	Check if user ID & password is valid (valid)
		11	Check if the user a tutor or student (tutor)
		12	Display admin page & prompt for button to be press
13	Click button show with radio button at student ID	14	Retrieve and display student ID , time & date of login
15	Click button show with radio button at student name	16	Retrieve and display student name , time & date of login.
15	Click button exit with radio button at student ID	16	Retrieve and display student ID, time & date of login, including slotting the late, absent & present student
17	Click button exit with radio button at student name	18	Retrieve and display student name, time & date of login, including slotting the late, absent & present student
		19	End this session

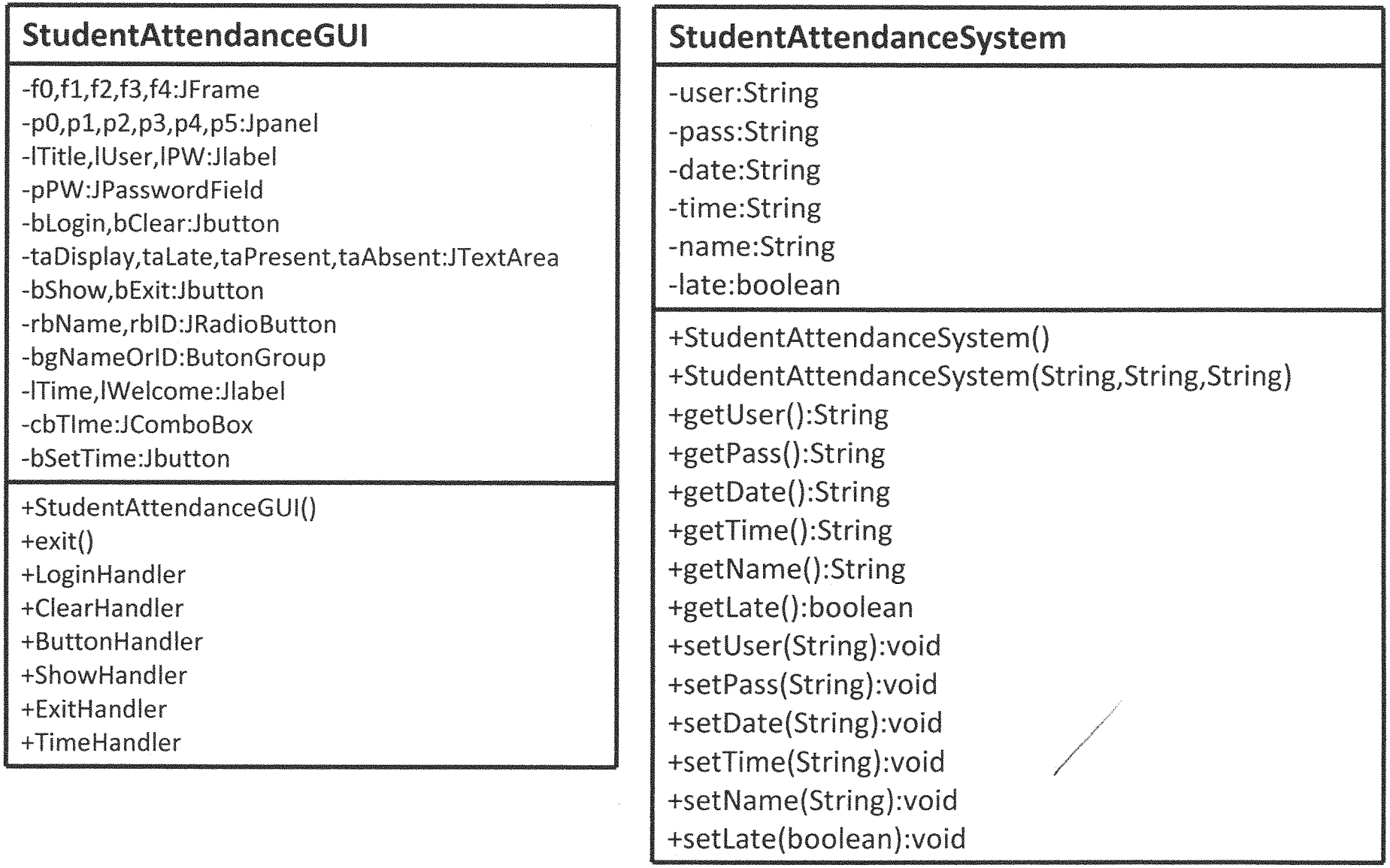
Conceptual Model



Collaboration Diagram



Class Diagram

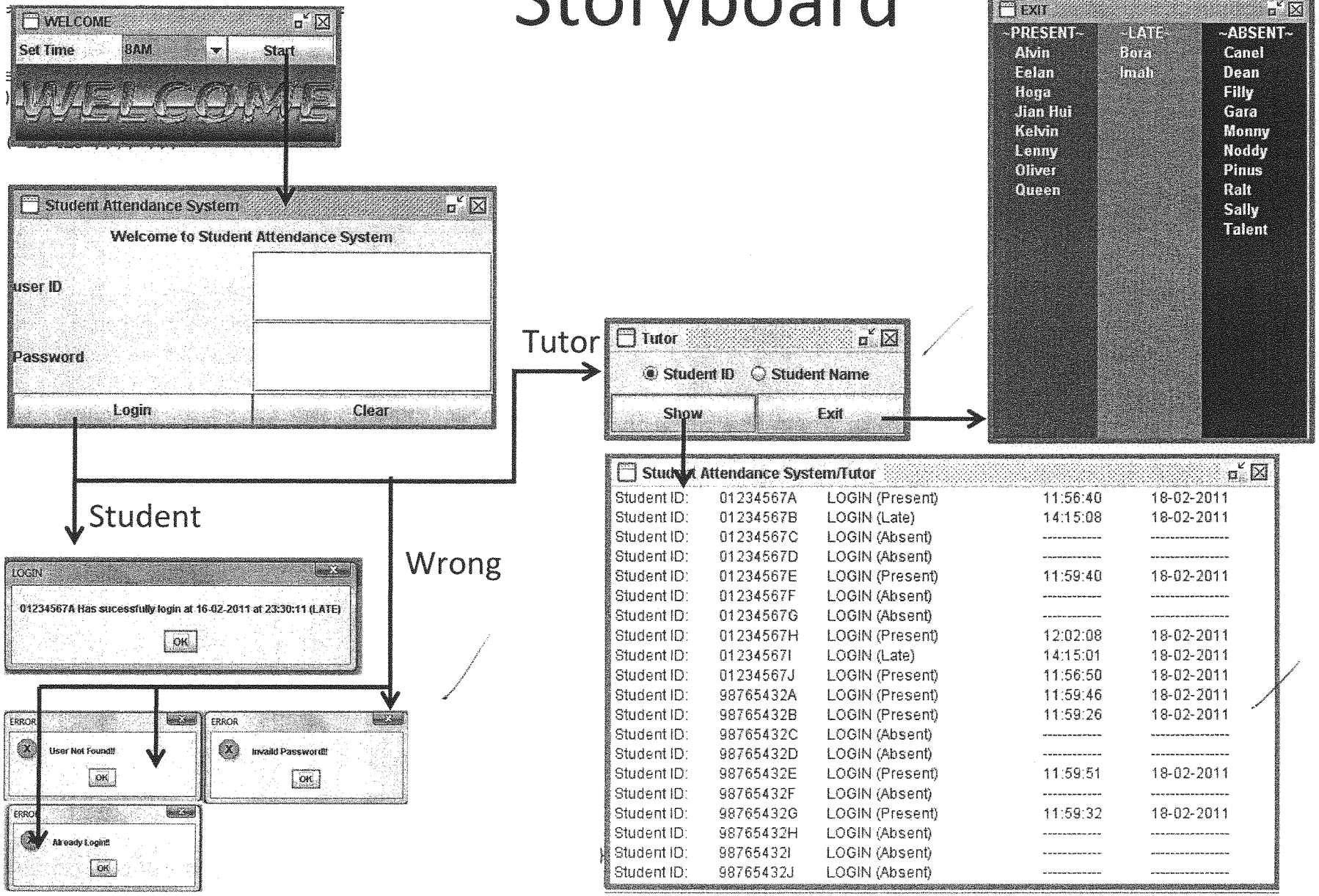


Class Diagram (con't)

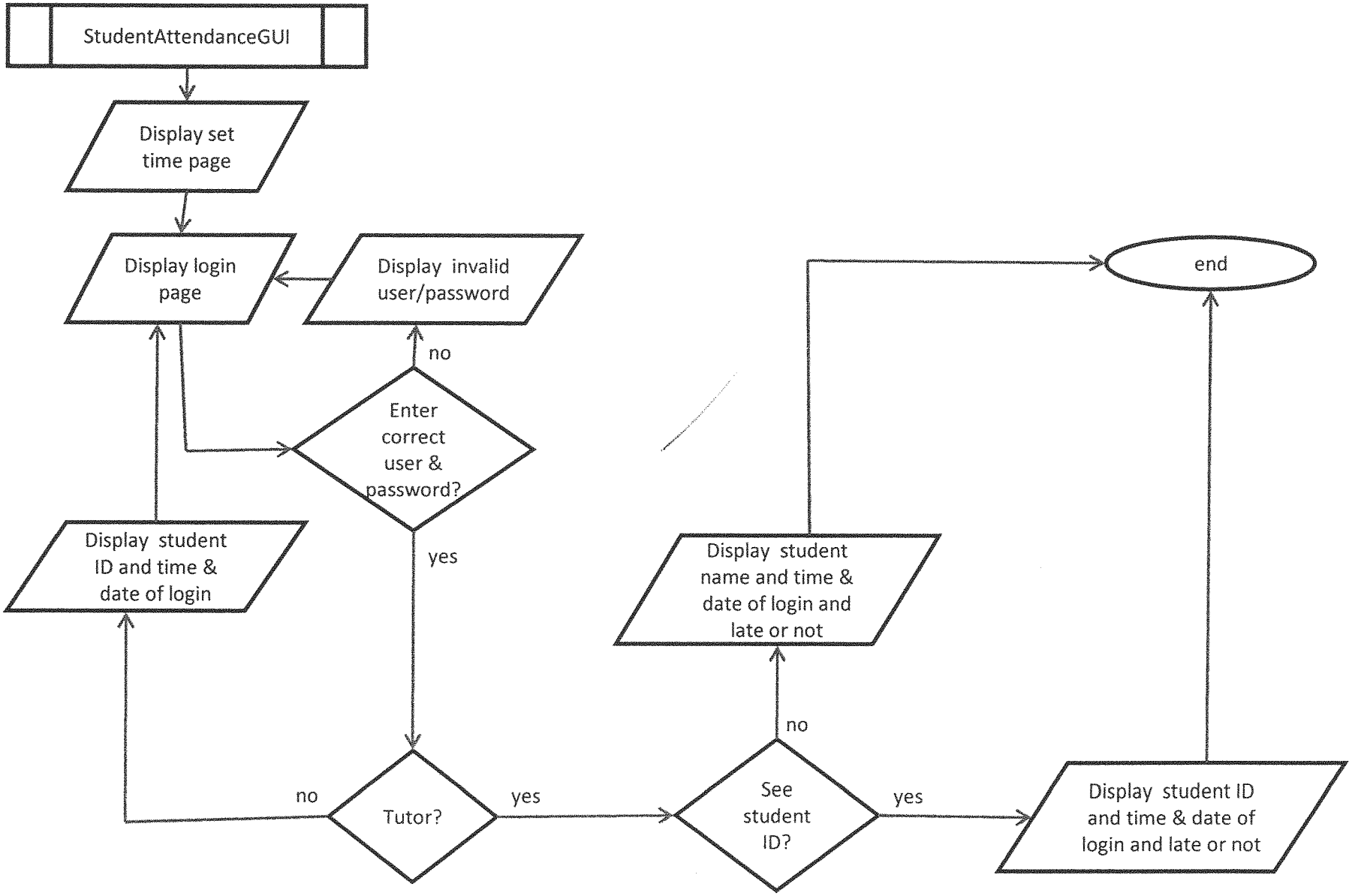
DataStorage
-data:Vector
+DataStorage() +storeData(sas:StudentAttendanceSystem) +replaceData(sas:StudentAttendanceSystem) +getVectorSize() +validateUser(user:String) +checkTutor(user:String) +retrieveUser(user:String) +retrieveUser(i:int) +read(n:String)

Controller
-ds:DataStorage -sas:StudentAttendanceSystem
+Controller() +retrieveUser(user:String) +retrieveUser(i:int) +getVectorSize() +replaceData(sas: StudentAttendanceSystem) +retrieveUserType(user,pass:String) +read()

Storyboard


WELCOME
Set Time
8AM
Start
WELCOME
Student Attendance System
Welcome to Student Attendance System
user ID
Password
Login
Clear
Tutor
Student
Wrong
Tutor
Student ID
Student Name
Show
Exit
EXIT
~PRESENT~
Alvin
Eelan
Hoga
Jian Hui
Kelvin
Lenny
Oliver
Queen
~LATE~
Bora
Imah
~ABSENT~
Canel
Dean
Filly
Gara
Monny
Noddy
Pinus
Ralt
Sally
Talent
LOGIN
01234567A Has sucessfully login at 16-02-2011 at 23:30:11 (LATE)
OK
ERROR
User Not Found!!
OK
ERROR
Invaild Password!!
OK
ERROR
Already Login!!
OK
Student Attendance System/Tutor
Student ID: 01234567A LOGIN (Present) 11:56:40 18-02-2011
Student ID: 01234567B LOGIN (Late) 14:15:08 18-02-2011
Student ID: 01234567C LOGIN (Absent) ---------- ----------
Student ID: 01234567D LOGIN (Absent) ---------- ----------
Student ID: 01234567E LOGIN (Present) 11:59:40 18-02-2011
Student ID: 01234567F LOGIN (Absent) ---------- ----------
Student ID: 01234567G LOGIN (Absent) ---------- ----------
Student ID: 01234567H LOGIN (Present) 12:02:08 18-02-2011
Student ID: 01234567I LOGIN (Late) 14:15:01 18-02-2011
Student ID: 01234567J LOGIN (Present) 11:56:50 18-02-2011
Student ID: 98765432A LOGIN (Present) 11:59:46 18-02-2011
Student ID: 98765432B LOGIN (Present) 11:59:26 18-02-2011
Student ID: 98765432C LOGIN (Absent) ---------- ----------
Student ID: 98765432D LOGIN (Absent) ---------- ----------
Student ID: 98765432E LOGIN (Present) 11:59:51 18-02-2011
Student ID: 98765432F LOGIN (Absent) ---------- ----------
Student ID: 98765432G LOGIN (Present) 11:59:32 18-02-2011
Student ID: 98765432H LOGIN (Absent) ---------- ----------
Student ID: 98765432I LOGIN (Absent) ---------- ----------
Student ID: 98765432J LOGIN (Absent) ---------- ----------

Flowchart


StudentAttendanceGUI
Display set time page
Display login page
Display invalid user/password
no
Enter correct user & password?
yes
Display student ID and time & date of login
Display student name and time & date of login and late or not
end
no
Tutor?
yes
See student ID?
yes
Display student ID and time & date of login and late or not
no