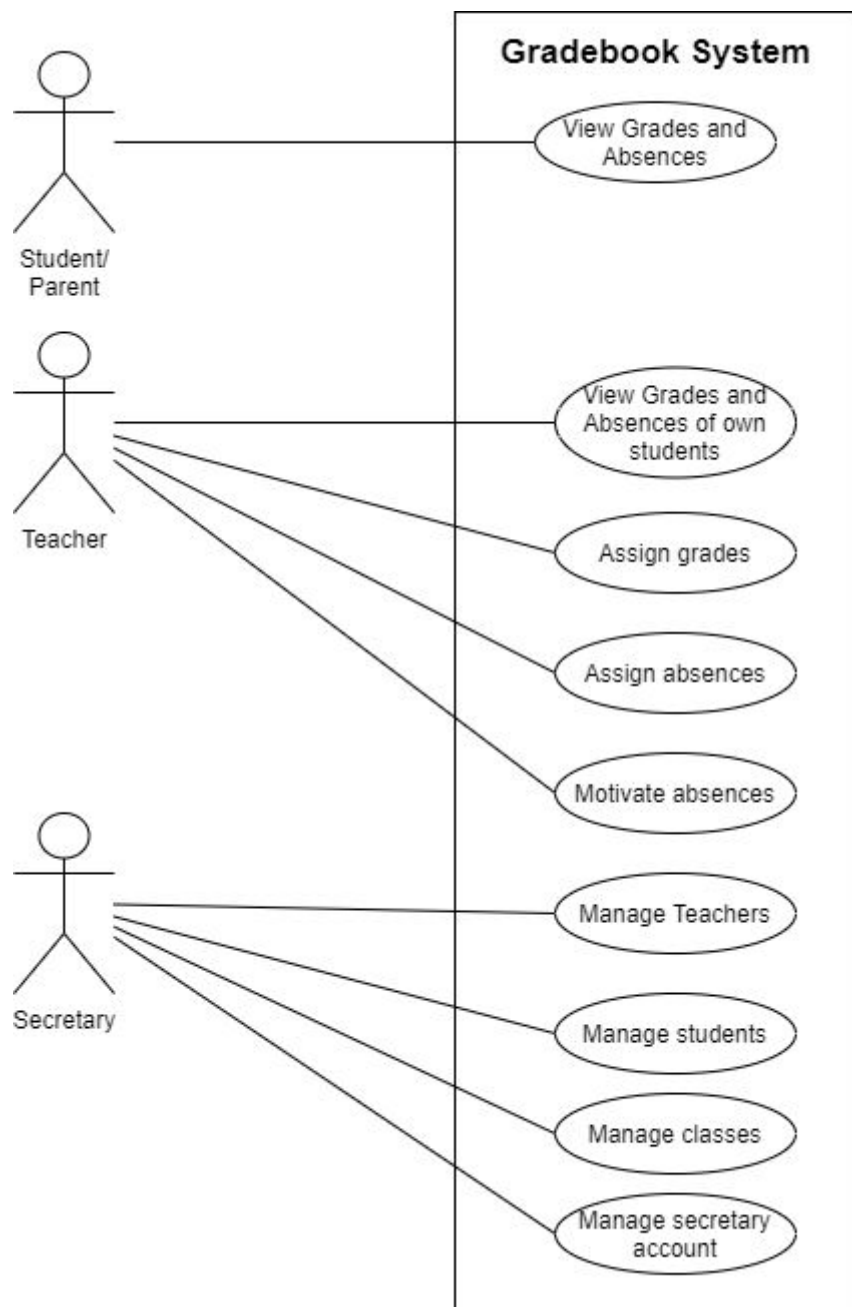


Appendix B

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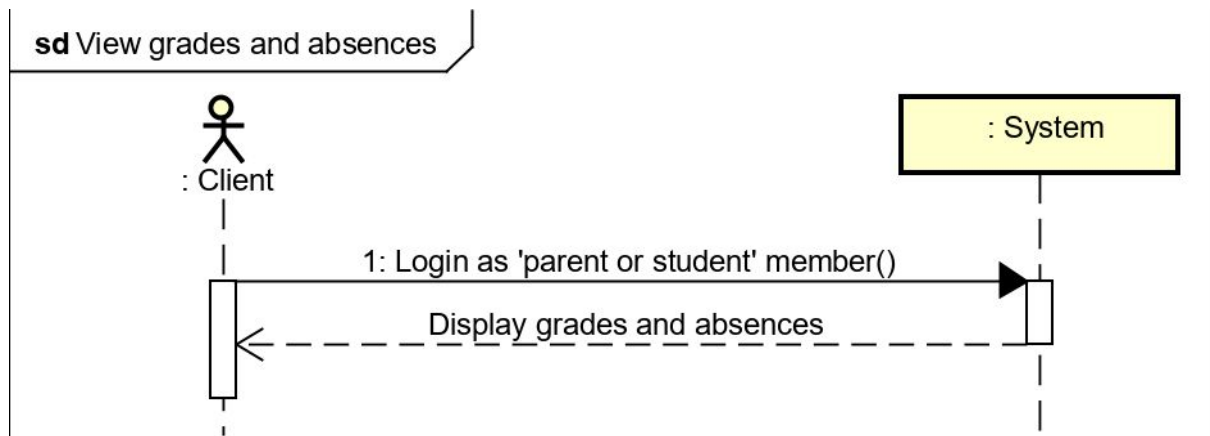
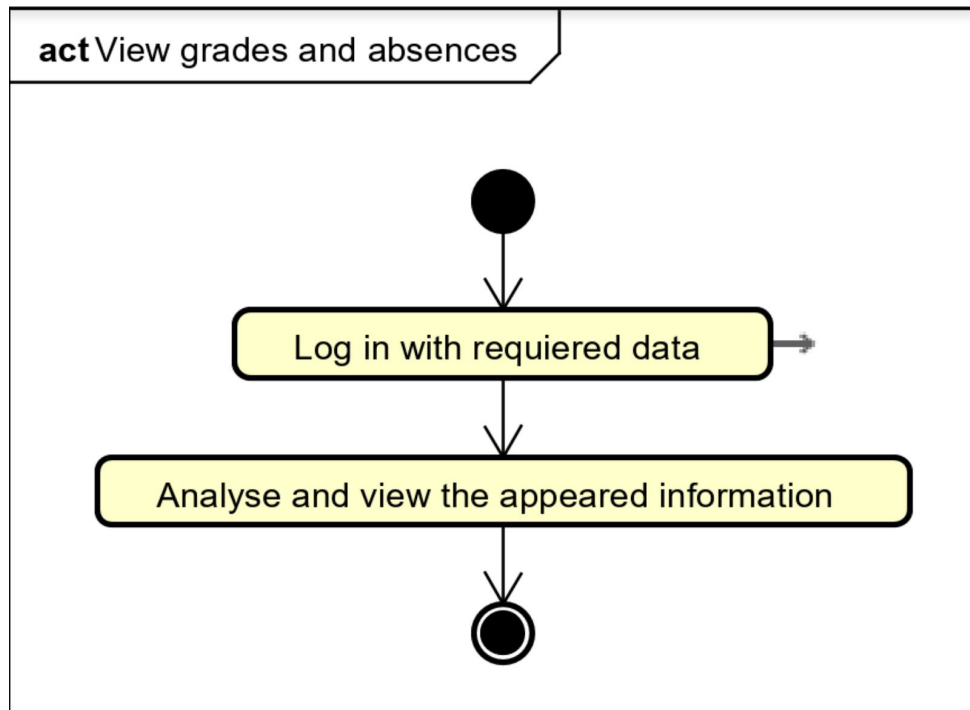
1. Use case diagram



2. Use case descriptions and activity diagrams

2.1 View grades and absences

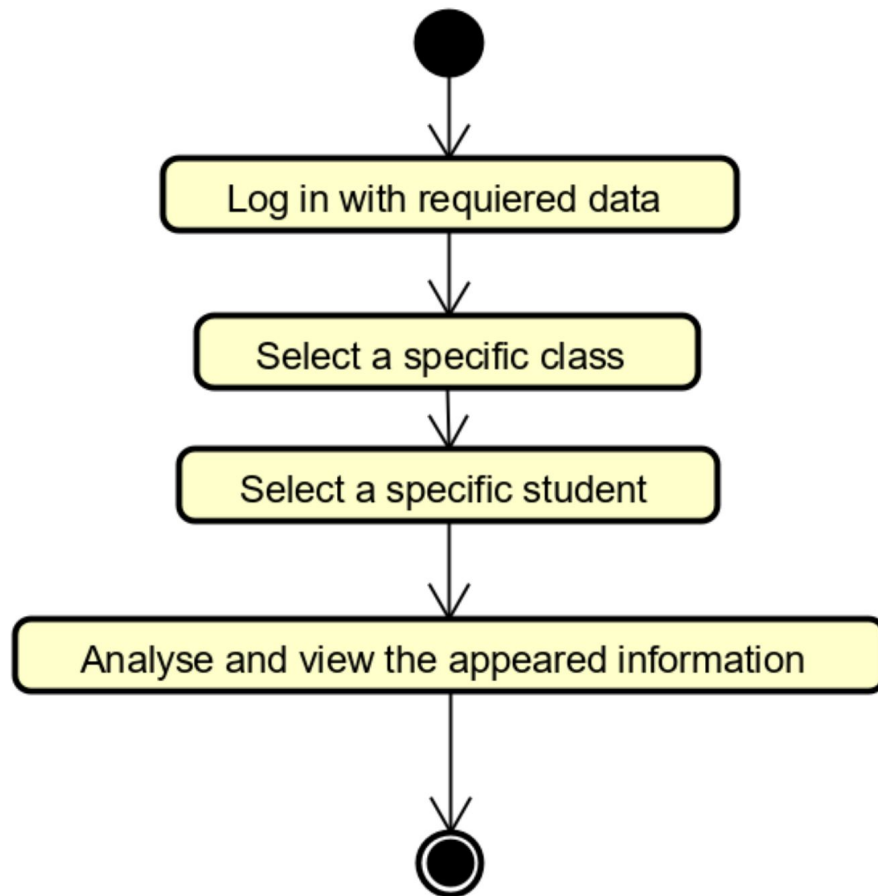
Use case	View grades and absences
Summary	Allow students or parents to view the grades and the list of absences
Actors	Students or parents
Precondition	In order to view the required information (grades and absences), an account should be created by a secretary
Postcondition	Not a piece of information will be modified by the actors. The information will be only displayed for parents and students
Base sequence	<ol style="list-style-type: none">1. In the main menu select the ID field or password field for filling out the necessary information.2. Type your ID number.3. Type your password.4. Press the "Login" button.5. The necessary information will appear on the screen.6. Press the "Log Out" button in order to log out from your account.
Exception sequence	2a. If the ID is invalid go back to step 2. 3a. If you inserted a wrong password in the "Password" field go back to step 3.
Note	The ID will be automatically generated. Password can be either an only number password , only letters password or a combination between letters and numbers and it shouldn't be longer than 8 characters.



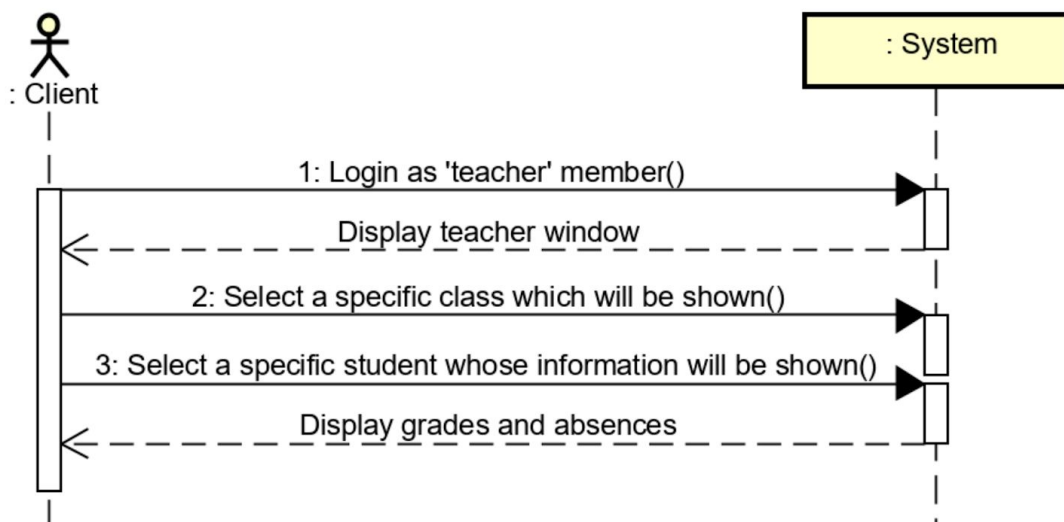
2.2 View Grades and Absences of own students

Use case	View Grades and Absences of own students
Summary	Allow teachers to view the given grades and marked absences for students
Actors	Teacher
Precondition	<p>In order to view the required information by the teacher (grades and absences), a teacher account should be created by a secretary</p> <p>In order to view the required information by the teacher for a specific student, a student account should be created by a secretary</p>
Postcondition	Not a piece of information will be modified by the actor (for now).The information will be only displayed for the teacher
Base sequence	<ol style="list-style-type: none">1. In the main menu select the ID field or password field for filling out the necessary information.2. Type your ID number.3. Type your password.4. Press the "Login" button.5. Teacher's name and his ID will be displayed.6. Select a specific class that will be shown.7. Select a specific student whose information will be presented.8. The necessary information will appear on the screen.9. Press the "Log Out" button in order to log out from your account.
Exception sequence	<p>2a. If the ID is invalid go back to step 2.</p> <p>3a. If you inserted a wrong password in the "Password" field go back to step 3.</p>
Note	<p>The ID will be automatically generated.</p> <p>Password can be either an only number password , only letters password or a combination between letters and numbers and it shouldn't be longer than 8 characters.</p>

act View Grades and Absences of own students



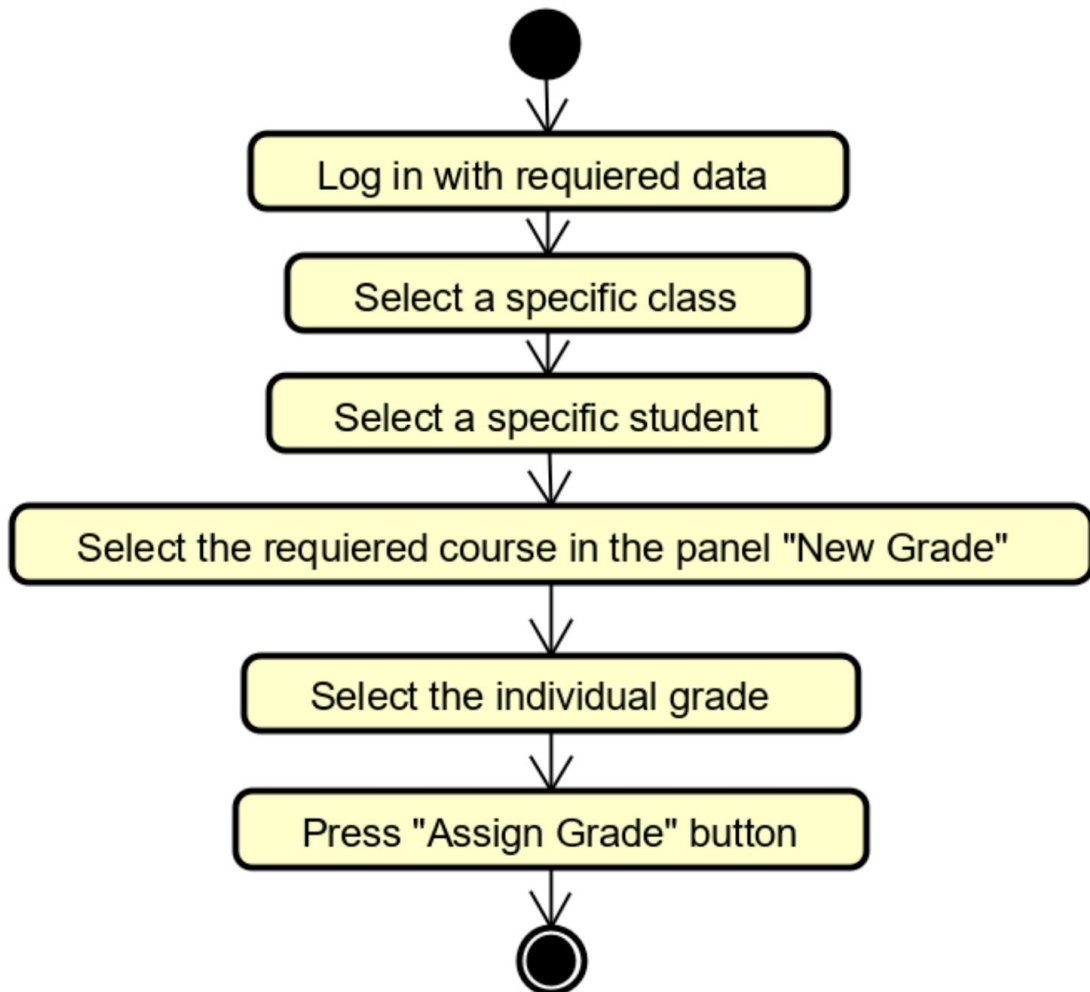
sd View Grades and Absences of own students



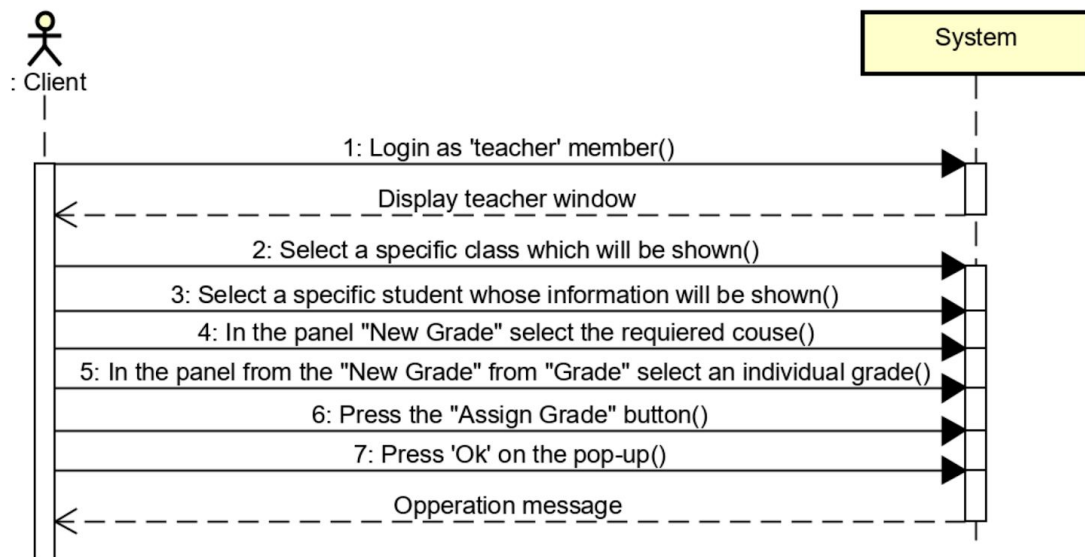
2.3 Assign grades

Use case	Assign grades
Summary	Teachers can assign an individual grade for every singular student
Actors	Teacher
Precondition	<p>In order to assign a grade to a student by the teacher, a teacher account should be created by a secretary</p> <p>In order for a student to be able to receive a grade, a student account should be created by a secretary</p>
Postcondition	A student will be graded by the teachers for a specific course with a individual grade
Base sequence	<ol style="list-style-type: none">1.In the main menu select the ID field or password field for filling out the necessary information.2.Type your ID number.3.Type your password.4.Press the "Login" button.5.Teacher's name and his ID will be displayed.6.Select a specific class which will be shown.7.Select a specific student whose information will be presented.8.In the panel "New Grade" from the "Course" drop-down menu select the required course.9.In the same panel from the "Grade" drop-down menu select the individual grade.10.Press the "Assign Grade" button.11.In the pop-up window press "ok" if you are sure to assign this grade or press "cancel" and go to step 8 or 9.
Exception sequence	<ol style="list-style-type: none">2a. If the ID is invalid go back to step 2.3a. If you inserted a wrong password in the "Password" field go back to step 3.
Note	<p>The ID will be automatically generated.</p> <p>Password can be either an only number password , only letters password or a combination between letters and numbers and it shouldn't be longer than 8 characters.</p> <p>There is a limited number of grades automatically given for teachers' choice (from 1 - 10).</p> <p>There is a limited list of courses automatically given for teachers' choice.</p>

act Assign grades



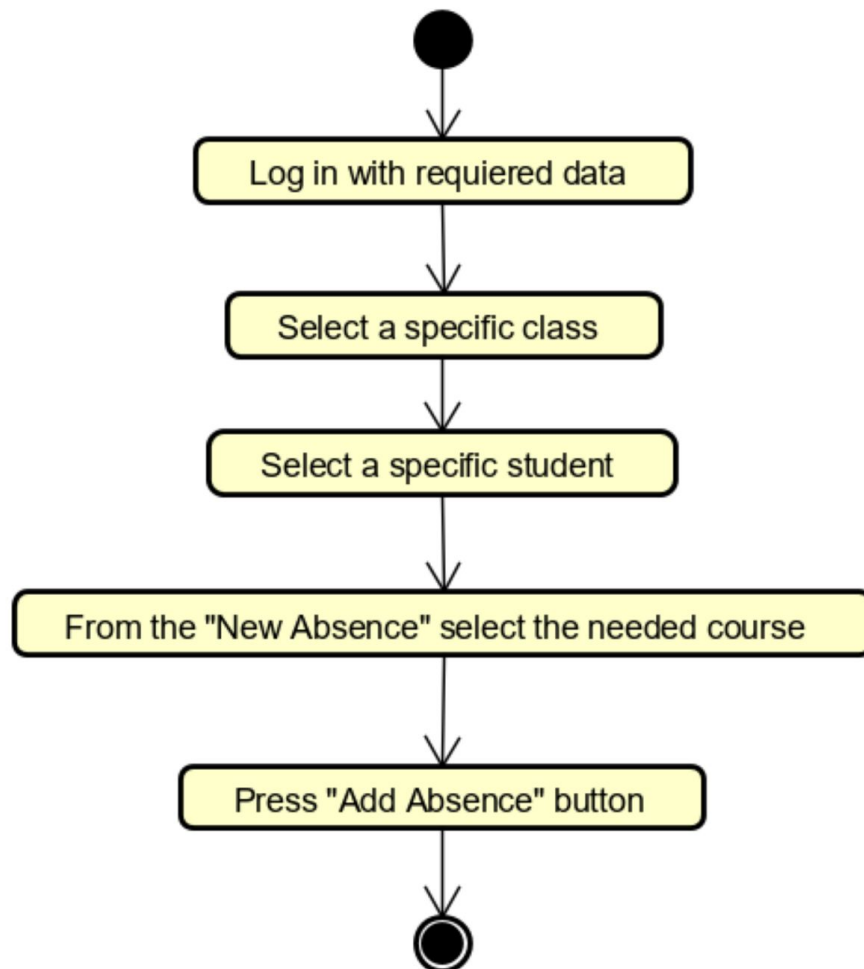
sd Assign grades



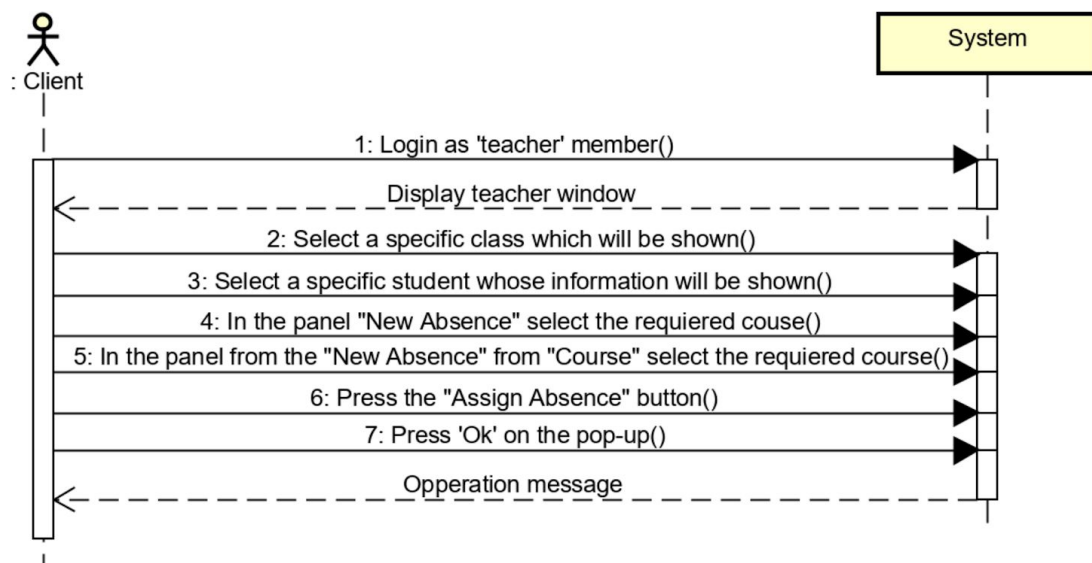
2.4 Assign absence

Use case	Assign absence
Summary	Teachers can assign an absence for every singular student
Actors	Teacher
Precondition	<p>In order to assign an absence to a student by the teacher, a teacher account should be created by a secretary</p> <p>In order for a student to be able to receive an absence, a student account should be created by a secretary</p>
Postcondition	A student will receive an absence from a teacher due to his absence from a specific course
Base sequence	<ol style="list-style-type: none">1. In the main menu select the ID field or password field for filling out the necessary information.2. Type your ID number.3. Type your password.4. Press the "Login" button.5. Teacher's name and his ID will be displayed.6. Select a specific class which will be shown.7. Select a specific student whose information will be presented.8. In the panel "New Absence" from the "Course" drop-down menu select the required course.9. Press the "Add Absence button.10. In the pop-up window press "ok" if you are sure to add this absence or press "cancel" and go to step 8.
Exception sequence	<p>2a. If the ID is invalid go back to step 2.</p> <p>3a. If you inserted a wrong password in the "Password" field go back to step 3.</p>
Note	<p>The ID will be automatically generated.</p> <p>Password can be either an only number password , only letters password or a combination between letters and numbers and it shouldn't be longer than 8 characters.</p> <p>There is a limited list of courses automatically given for teachers choice when adding absence.</p>

actAssign absences



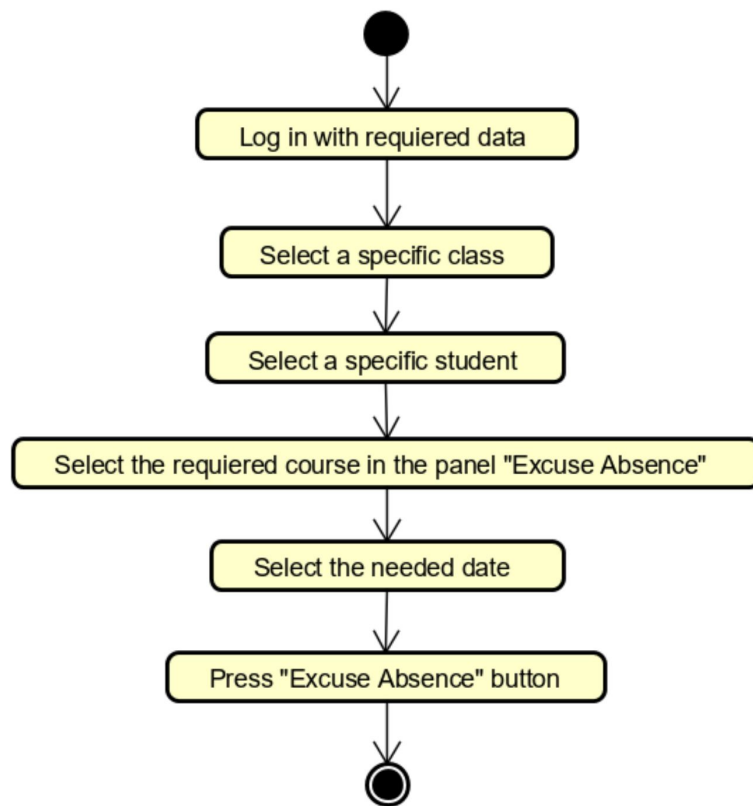
sd Assign absences



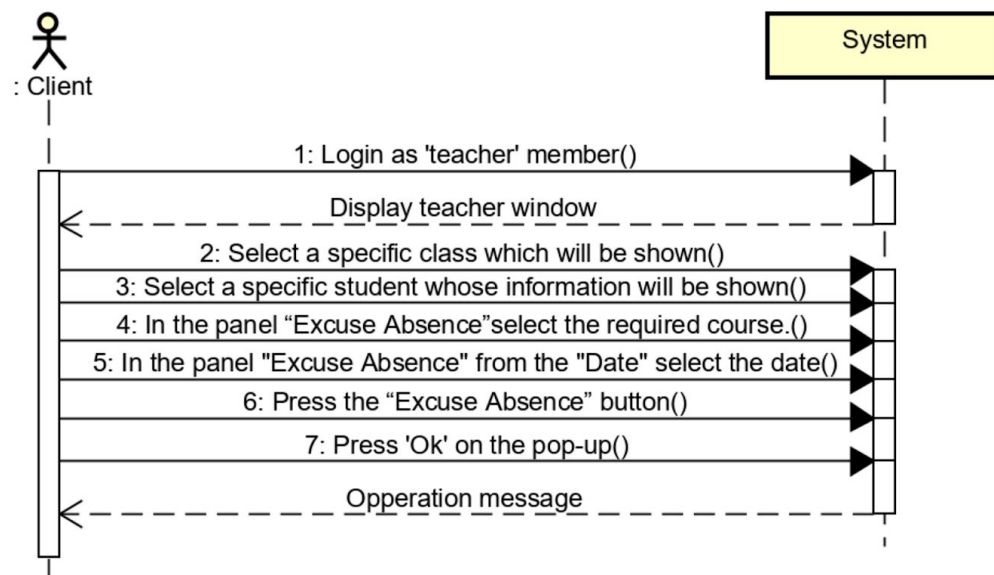
2.5 Excuse absence

Use case	Excuse absence
Summary	Teachers are able to excuse a student's absence based on some given proofs
Actors	Teacher
Precondition	<p>In order to excuse an absence by a teacher, a teacher account should be created by a secretary</p> <p>In order for a student's absence to be excused, an account should be created</p> <p>In general for an absence to be excused, there should exist and absence</p>
Postcondition	The selected absence by teacher will be excused by the given proofs from the parents or teachers
Base sequence	<ol style="list-style-type: none"> 1. In the main menu select the ID field or password field for filling out the necessary information. 2. Type your ID number. 3. Type your password. 4. Press the "Login" button. 5. Teacher's name and his ID will be displayed. 6. Select a specific class which will be shown. 7. Select a specific student whose information will be presented. 8. In the panel "Excuse Absence" from the "Course" drop-down menu select the required course. 9. In the same panel from the "Date" drop-down menu select the date. 10. Press the "Excuse Absence" button. 11. In the pop-up window press "ok" if you are sure to excuse this absence or press "cancel" and go to step 8 or 9.
Exception sequence	<ol style="list-style-type: none"> 2a. If the ID is invalid go back to step 2. 3a. If you inserted a wrong password in the "Password" field go back to step 3.
Note	<p>The ID will be automatically generated.</p> <p>Password can be either an only number password , only letters password or a combination between letters and numbers and it shouldn't be longer than 8 characters.</p> <p>There is a limited number of courses automatically given for teachers' choice.</p> <p>There is a limited list of dates automatically given for teachers' choice.</p>

act Excuse absences



sd Excuse absences

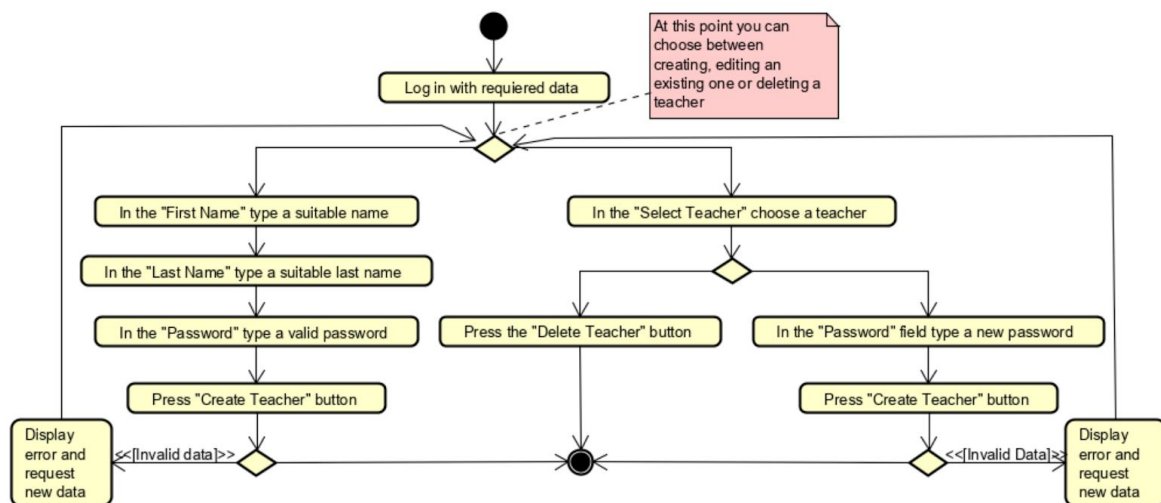


2.6 Manage Teachers

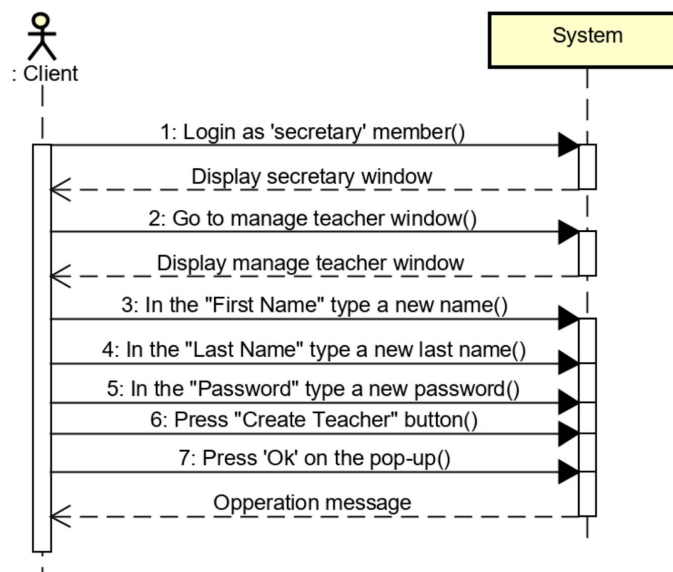
Use case	Manage Teachers
Summary	Allow secretary to work with the teachers account in the way of editing and creating it
Actors	Secretary
Precondition	
Postcondition	A new account for the teacher will be created or an existing teacher's account settings will be changed
Base sequence	<ol style="list-style-type: none">1. In the main menu select the ID field or password field for filling out the necessary information.2. Type your ID number.3. Type your password.4. Press the "Login" button. <p>I) For creating teacher:</p> <ol style="list-style-type: none">1. In the "First Name" field, type a suitable name for the teacher.2. In the "Last Name" field, type a suitable last name for the teacher.3. In the "Password" field, type a password for the new created account.4. Press "Create Teacher" button5. In the pop-up window press "ok" if you are sure you want to create a teacher account with this information or press "cancel" and go to step 1, 2 or 3. <p>II) For editing a teacher:</p> <ol style="list-style-type: none">1. In the "Select Teacher" drop down list select the teacher you need2. In the "Password" field, type the new password3. Press the "Edit Teacher" button.4. In the pop-up window press "ok" if you are sure to change the password for the existing teacher's account or press "cancel" and go to step 1 or 2. <p>III b) For deleting a teacher:</p> <ol style="list-style-type: none">1. In the "Select Teacher" drop down list select the teacher you need2. Press the "Delete Teacher" button.3. In the pop-up window press "ok" if you are sure to delete the selected teacher's account or press "cancel" and go to

	step 1.
Exception sequence	<p>I)1a.If you inserted a wrong name in the “First Name” field go to I step 1.</p> <p>2a.If you inserted a wrong last name in the “Last Name” field I step 2.</p> <p>3a.If you inserted a new password which is shorter than 8 characters go to I step 3.</p> <p>II)2a.If you inserted a new password for editing which is shorter than 8 characters go to II step 2.</p>
Note	Password can be either an only number password , only letters password or a combination between letters and numbers.

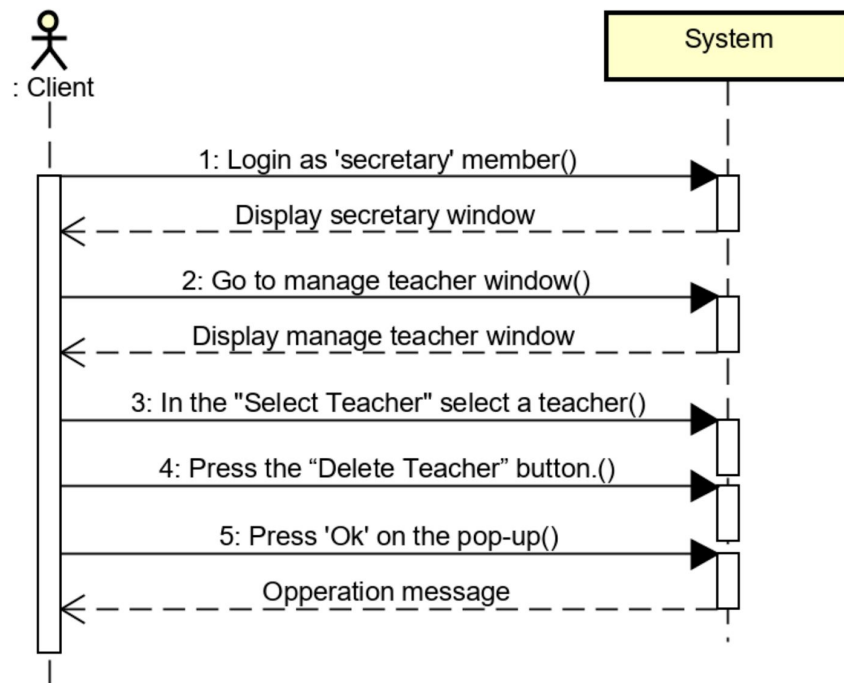
actManage Teachers



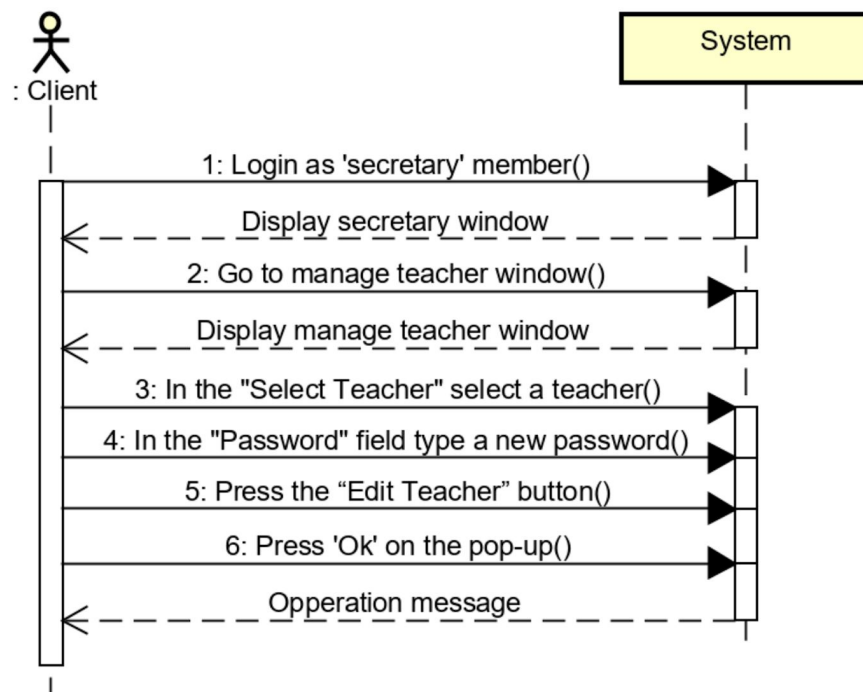
sd Manage Teachers (create teacher)



sd Manage Teachers (delete teacher)



sd Manage Teachers (edit teacher)

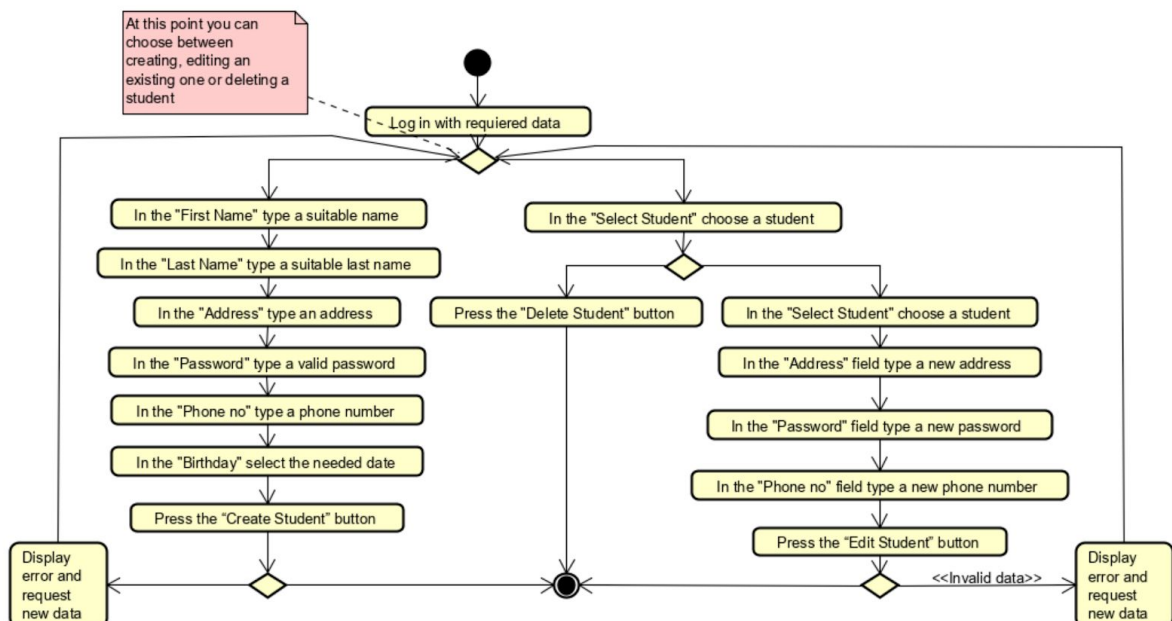


2.7 Manage students

Use case	Manage students
Summary	Allow secretary to work with students account in the way of editing and creating them
Actors	Secretary
Precondition	
Postcondition	A new student account will be created or an existing teacher's account settings will be changed
Base sequence	<ol style="list-style-type: none">1. In the main menu select the ID field or password field for filling out the necessary information.2. Type your ID number.3. Type your password.4. Press the "Login" button. <p>I) For creating student:</p> <ol style="list-style-type: none">1. In the "First Name" field, type a suitable name for the student.2. In the "Last Name" field, type a suitable last name for the student.3. In the "Address" field, type an address for the student.4. In the "Password" field, type a password for the new created account.5. In the "Phone no" field, type the student's phone number.6. In the "Birthday" field from the calendar, select students birthday.7. Press the "Create Student" button.8. In the pop-up window press "ok" if you are sure you want to create a student account with this information or press "cancel" and go to step 1, 2, 3, 4, 5 or 6. <p>II) For editing a student:</p> <ol style="list-style-type: none">1. In the "Select Student" drop down list select the student you need.2. In the "Address" field, type the new address.3. In the "Password" field, type the new password.4. In the "Phone no" field, type the new phone number.5. Press the "Edit Student" button.6. In the pop-up window press "ok" if you are sure to change the old details for the existing teacher's account or press "cancel" and go to step 1, 2, 3 or 4. <p>III b) For deleting a student:</p> <ol style="list-style-type: none">1. In the "Select Student" drop down list select the student you need.2. Press the "Delete Student" button.

	<p>3. In the pop-up window press “ok” if you are sure to delete the selected student account or press “cancel” and go to step 1.</p>
Exception sequence	<p>I) 1a. If you inserted a wrong name in the “First Name” field go to I step 1. 2a. If you inserted a wrong last name in the “Last Name” field go to I step 2. 3a. If you inserted a wrong address in the “Address” field go to I step 3. 4a. If you inserted a new password which is shorter than 8 characters go to I step 4. 5a. If you inserted a wrong phone number in the “Phone no” field go to I step 5. 6a. If you have chosen a wrong birthday in the “Birthday” field from the special calendar go to I step 6.</p> <p>II) 1a. If you inserted a wrong address in the “Address” field go to II step 2. 2a. If you inserted a new password for editing which is shorter than 8 characters go to II step 3. 3a. If you inserted a wrong phone number in the “Phone no” field go to II step 4.</p>
Note	<p>Password can be either an only number password , only letters password or a combination between letters and numbers.</p> <p>A student birthday cannot be set later than 2015 and earlier than 1970.</p>

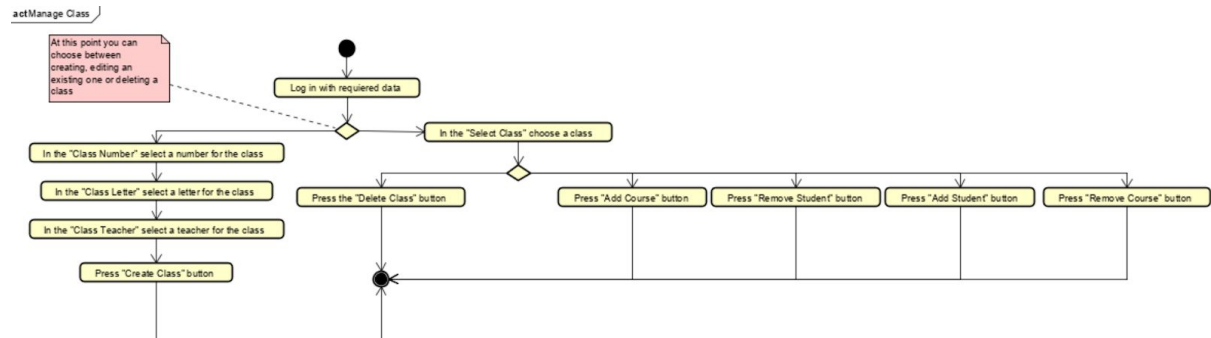
act Manage students



2.8 Manage Class

Use case	Manage Class
Summary	Allow secretary to work with the classes in the way of editing and creating them
Actors	Secretary
Precondition	For creating a class, there should already exists a teacher account and a student account
Postcondition	A new class will be created or an existing class settings will be changed
Base sequence	<ol style="list-style-type: none">1. In the main menu select the ID field or password field for filling out the necessary information.2. Type your ID number.3. Type your password.4. Press the "Login" button. <p>I) For creating a class:</p> <ol style="list-style-type: none">1. In the "Class Number" drop down list, choose a number for the class.2. In the "Class Letter" drop down list, choose a class letter.3. In the "Class Teacher" drop down list, select a teacher.4. Press the "Create Class" button.5. In the pop-up window press "ok" if you are sure you want to create a class with this information or press "cancel" and go to step 1, 2 or 3. <p>II) For editing a class:</p> <ol style="list-style-type: none">1. In the "Select Class" drop down list select the class you need2. In case if you want to add a student, in the first "Student" drop down list, select the required student or if you need to delete a student in the second drop down list, select the necessary student.3. Press the "Add Student" button in the first row or press "Remove Student" button in the second row4. In case if you want to add a course, in the first "Course" drop down list, select the required course or if you need to delete a course in the second drop down list, select the necessary course.5. Press the "Add course" button in the first row or press "Remove Course" button in the second row <p>III b) For deleting a class:</p> <ol style="list-style-type: none">1. In the "Select Class" drop down list select the class you need2. Press the "Delete Class" button.

	3. In the pop-up window press “ok” if you are sure to delete the selected class or press “cancel” and go to step 1.
Exception sequence	
Note	The order of choosing fields or drop down lists does not matter.



2.9 Change log in

Use case	Change log in
Summary	Allows a secretary to change the username and password based on requests from parents/students or on its own vision
Actors	Secretary
Precondition	Account which username and password will be changed should exist in the system
Postcondition	The username and the password of an account will be changed
Base sequence	<ol style="list-style-type: none"> 1. In the main menu select the ID field or password field for filling out the necessary information. 2. Type your ID number. 3. Type your password. 4. Press the “Login” button. 5. Go to manage Log-in section on secretary page 6. In the “Username” field type the new username 7. Press the “Change Username” button. 8. In the pop-up window press “ok” if you are sure to change the username or press “cancel” and go to step 6.

	<p>9. In the "Password" field type the new password</p> <p>10. Press the "Change Password" button.</p> <p>11. In the pop-up window press "ok" if you are sure to change the password or press "cancel" and go to step 9.</p>
Exception sequence	<p>2a. If the ID is invalid go back to step 2.</p> <p>3a. If you inserted a wrong password in the "Password" field go back to step 3.</p> <p>6a. If the new username is invalid go back to step 3.</p> <p>9a. If the new password is invalid go back to step 9.</p>
Note	Password can be either an only number password , only letters password or a combination between letters and numbers.

actChange log in

