

The Hope Music Academy School

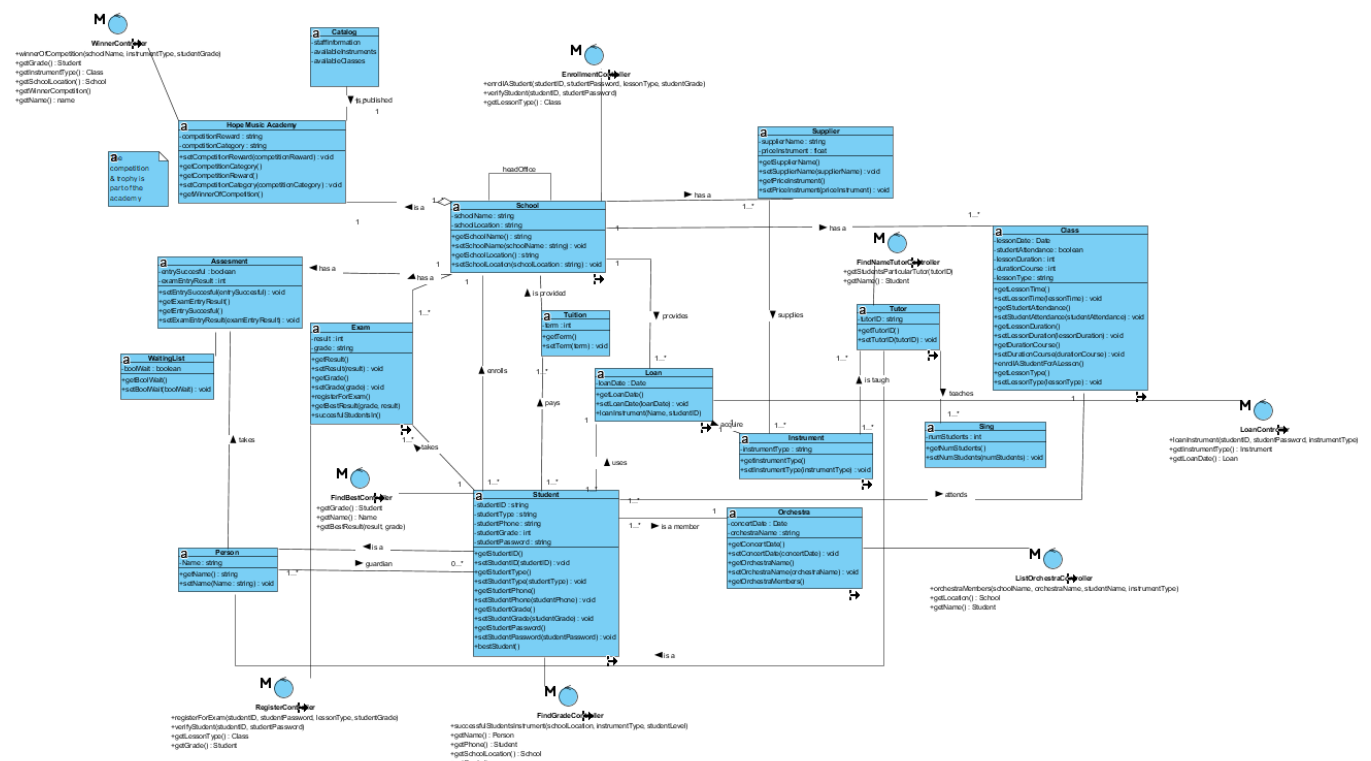
OBJECT ORIENTED ANALYSIS & DESIGN

YAIZA COSTA MORENO

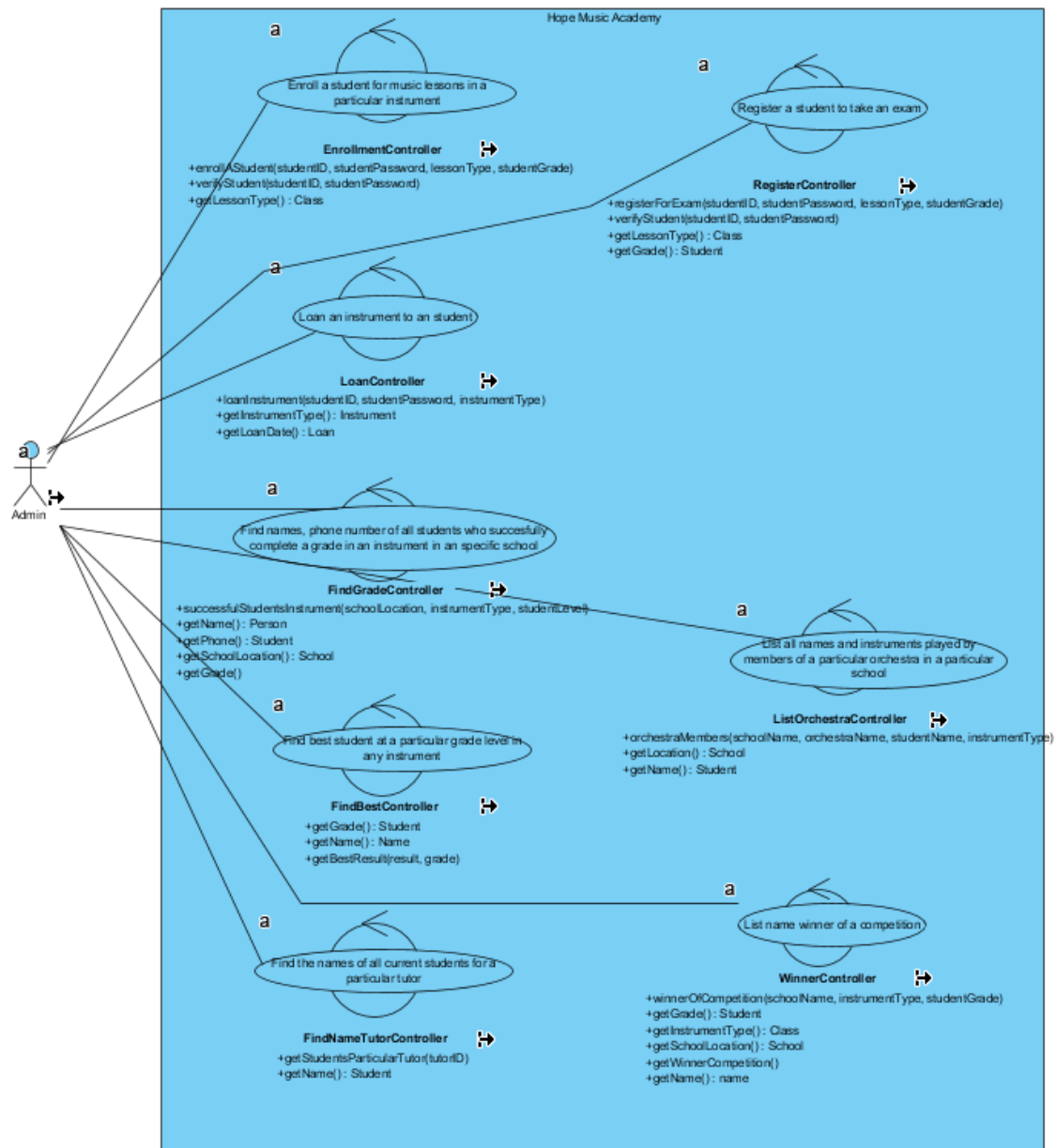
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Design Class Diagram

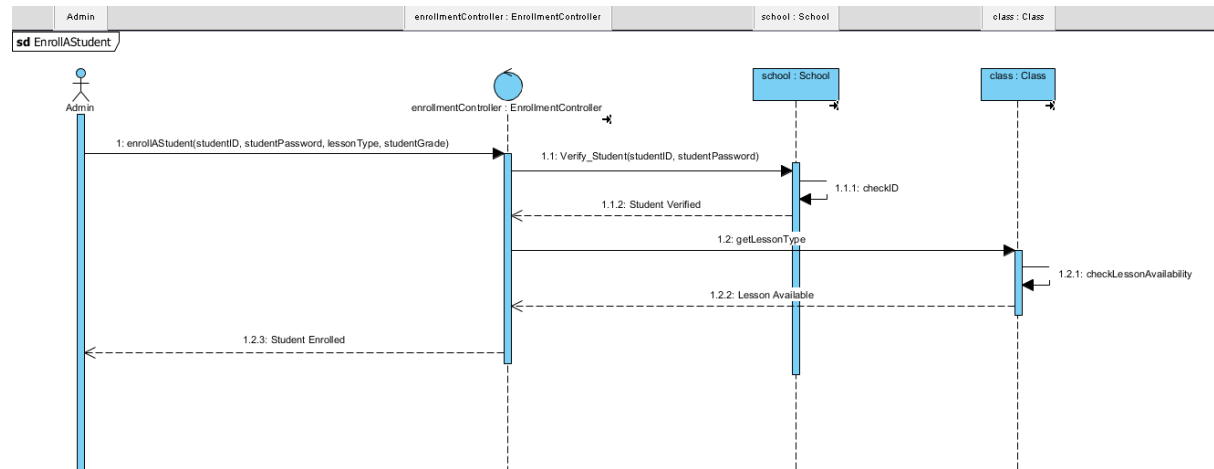


Use Case Diagram

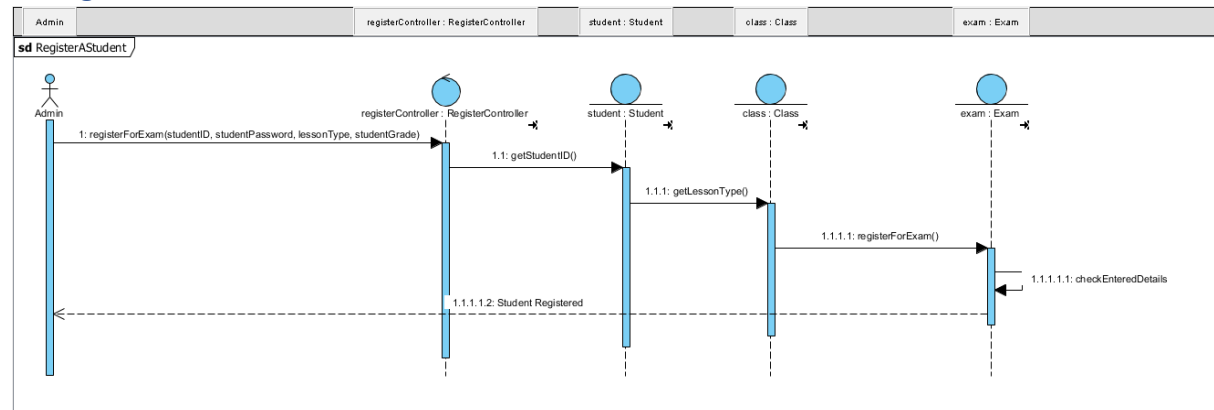


Sequence diagrams in VP

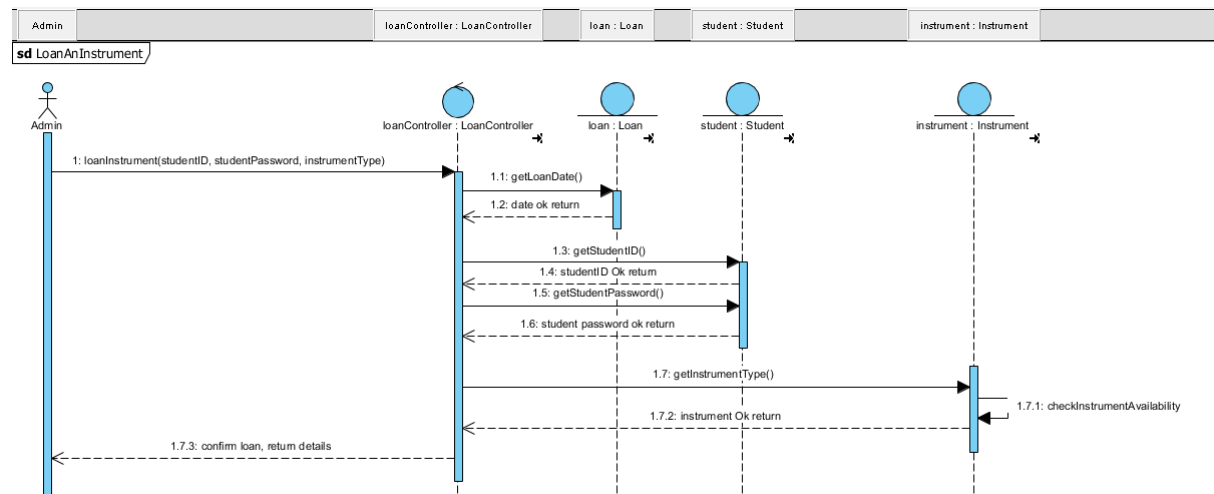
i. Enroll a student for music lessons in a particular instrument.



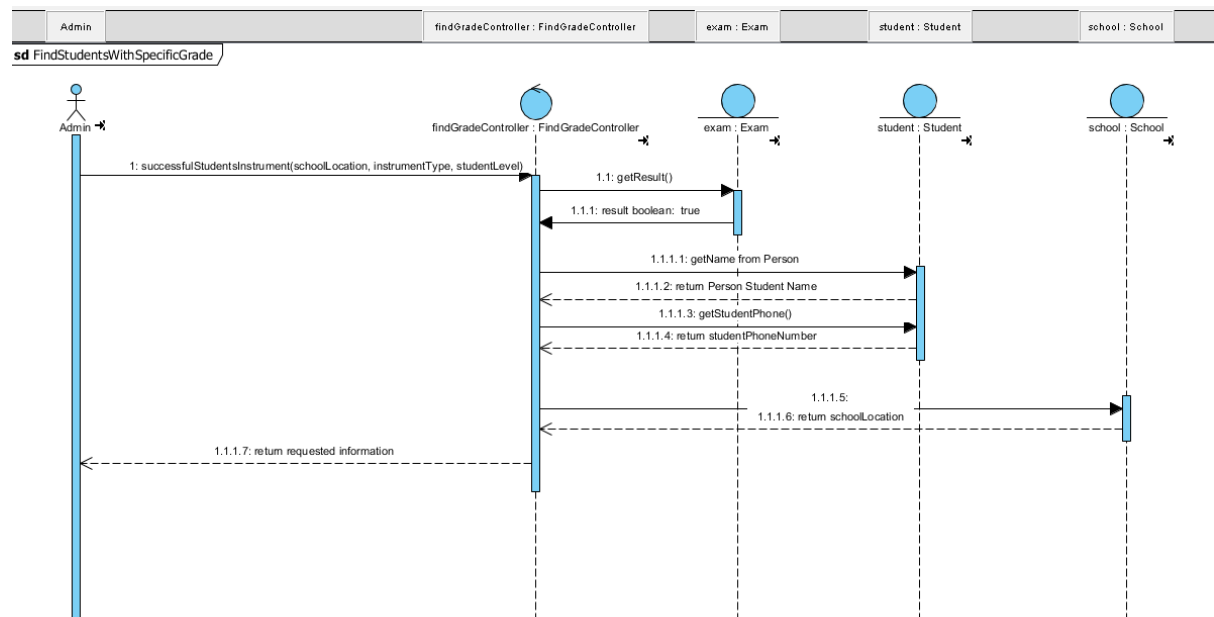
ii. Register a student to take an exam.



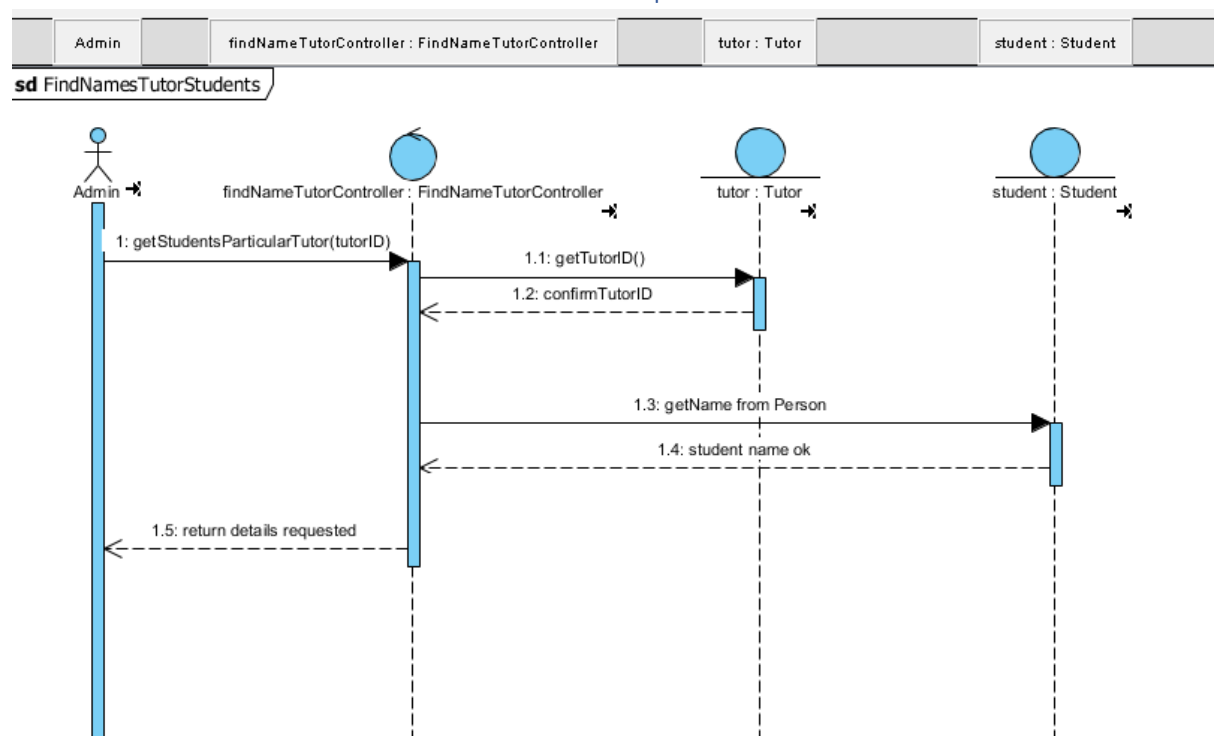
iii. Loan an instrument to a student.



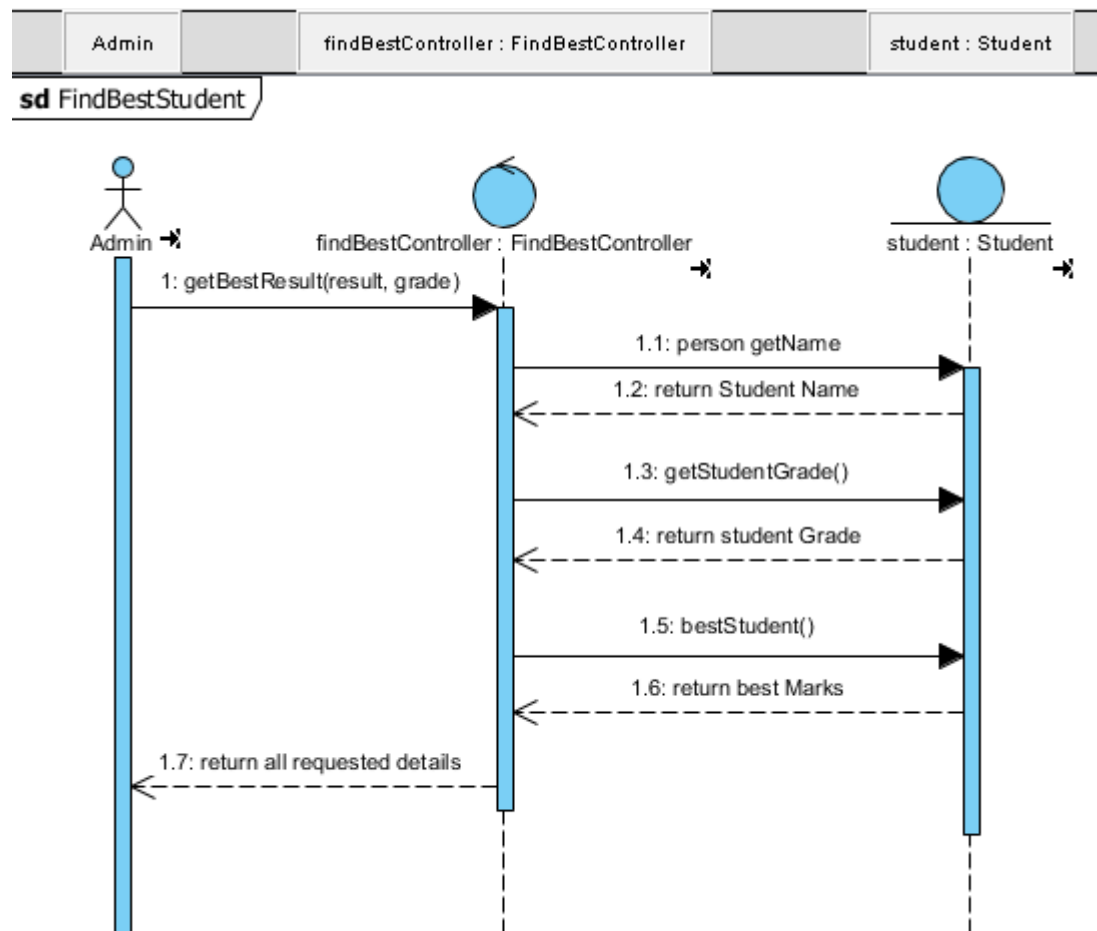
iv. Find the names and phone numbers of all students who successfully completed grade n an instrument in a specific school.



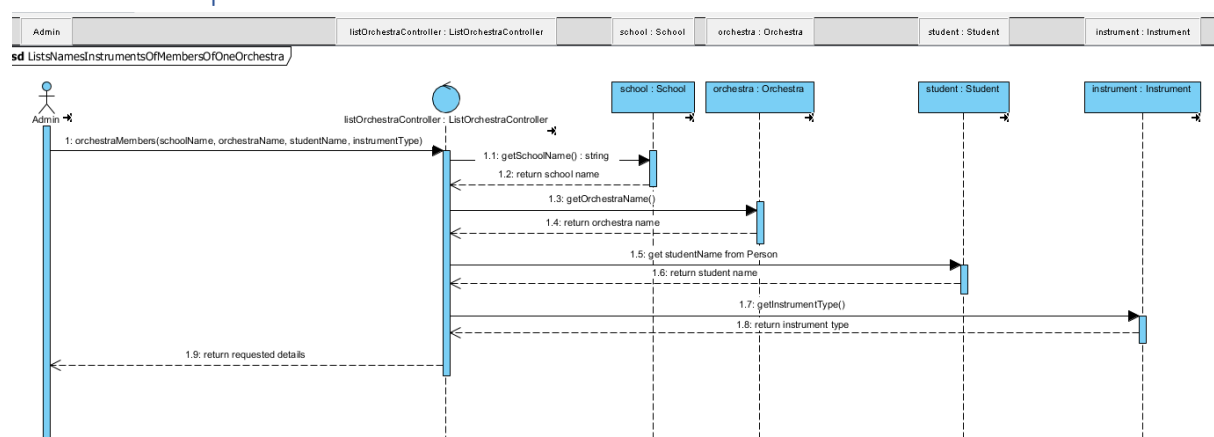
v. Find the names of all current students for a particular tutor.



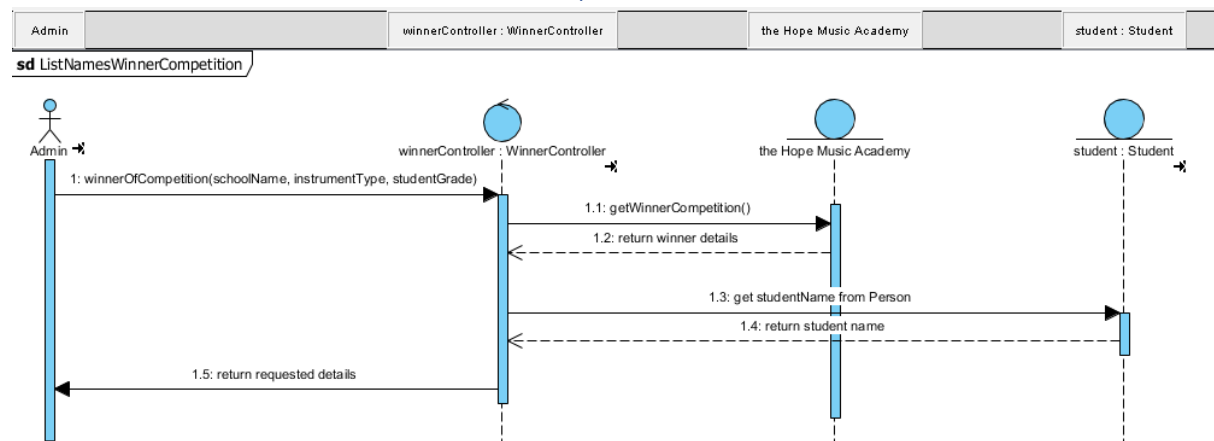
vi. Find the name of the best student at a particular grade level in any instrument.



vii. List the names and instruments played by all members of a particular orchestra in a particular school.



viii. List the name of the winner of a competition.



Mock-ups in VP

i. Enroll a student for music lessons in a particular instrument.

Enroll a student for a music lesson

Enroll for a music lesson

Student ID

Instrument

Password

Grade Level

ii. Register a student to take an exam.

The dialog box is titled "Register a Student for an exam" and contains a sub-header "Register for an exam". A note states "All exams are taking place at the end of third term". The form includes fields for "Student ID" (text input), "Class" (dropdown menu with "Sing" selected), "Password" (text input with masked characters), and "Grade" (dropdown menu with "1" selected). At the bottom are "Submitt" and "Cancel" buttons.

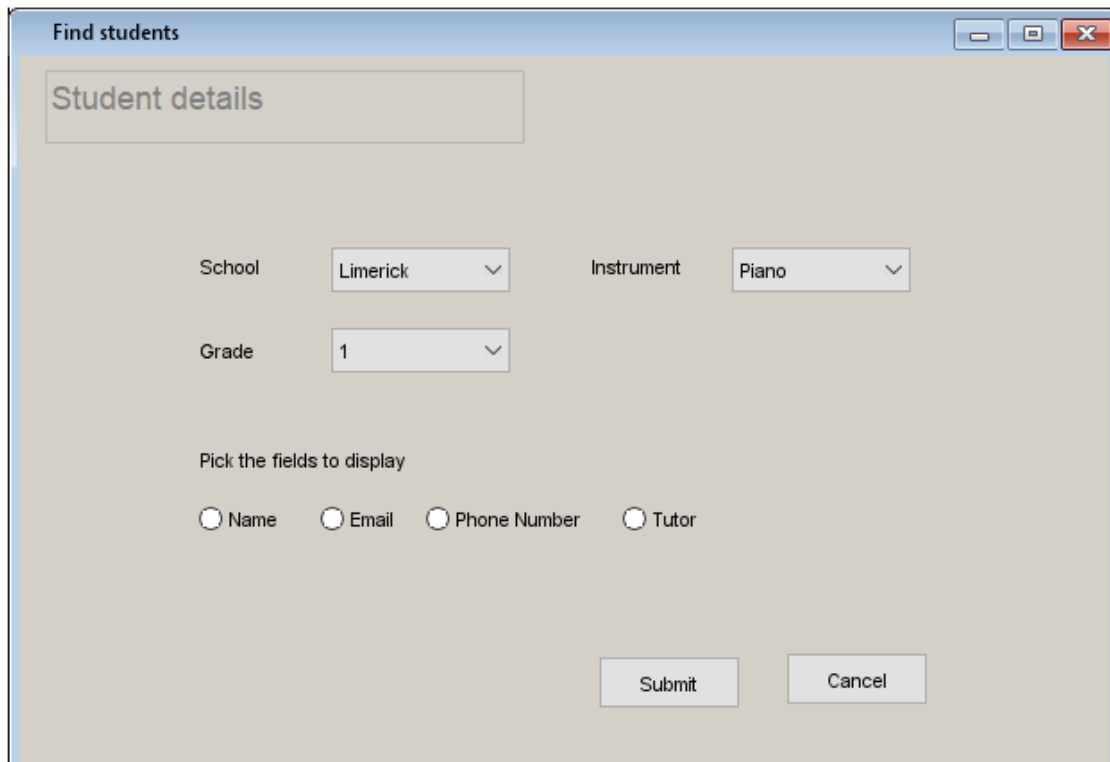
Field	Value
Student ID	
Class	Sing
Password	*****
Grade	1

iii. Loan an instrument to a student.

The dialog box is titled "Loan an instrument to a student" and contains a sub-header "Loan an instrument". The form includes fields for "Student ID" (text input), "Student Password" (text input with masked characters), "Instrument" (dropdown menu with "Piano" selected), and "Term" (dropdown menu with "1" selected). At the bottom are "Submitt" and "Cancel" buttons.

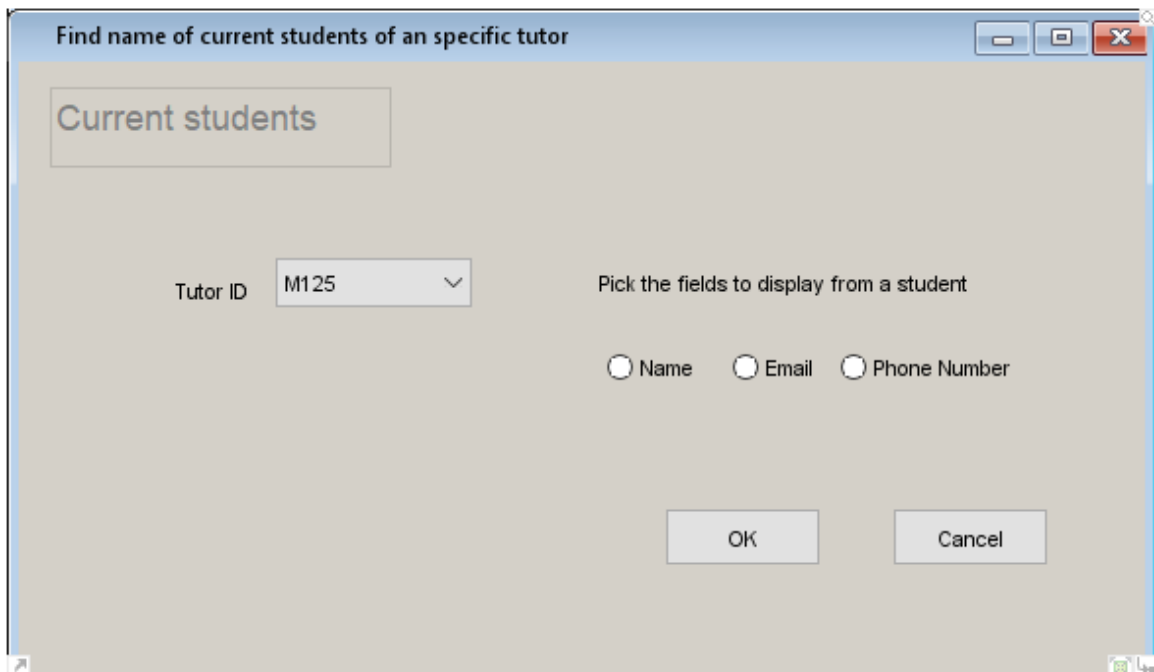
Field	Value
Student ID	
Student Password	*****
Instrument	Piano
Term	1

iv. Find the names and phone numbers of all students who successfully completed grade n an instrument in a specific school.



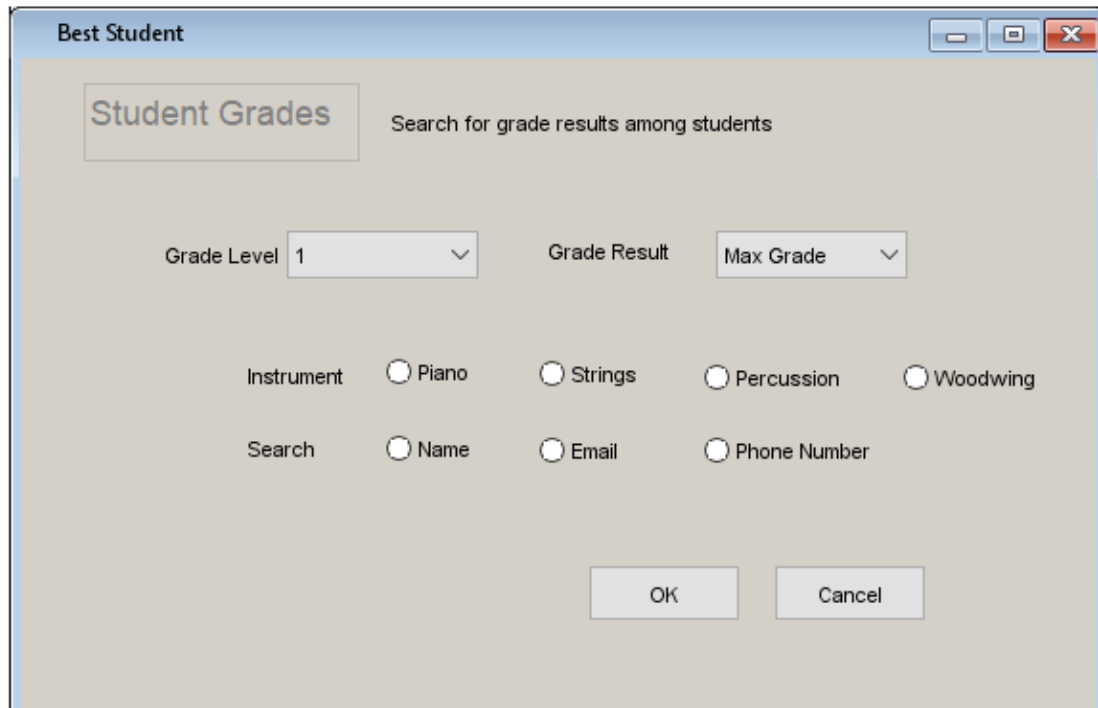
A dialog box titled "Find students" with a light blue header bar containing standard window controls. The main area has a light beige background. At the top left is a label "Student details" inside a light beige rectangular box. Below this are three dropdown menus: "School" with "Limerick" selected, "Instrument" with "Piano" selected, and "Grade" with "1" selected. Below the dropdowns is the text "Pick the fields to display" followed by four radio buttons: "Name", "Email", "Phone Number", and "Tutor". At the bottom right are two buttons: "Submit" and "Cancel".

v. Find the names of all current students for a particular tutor.



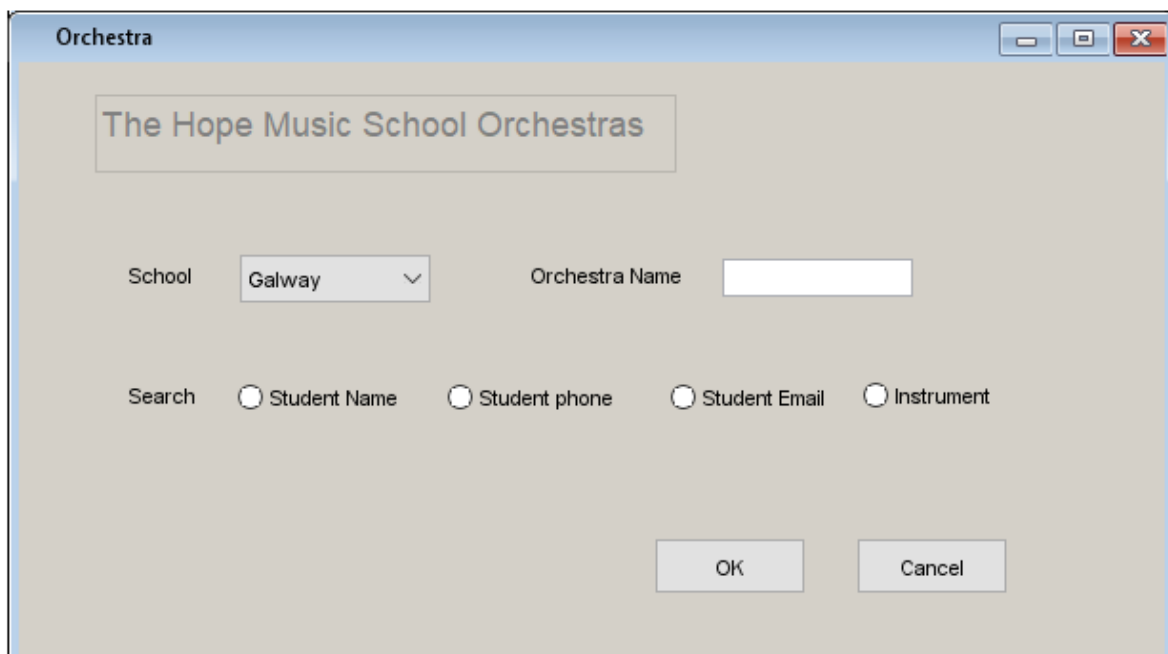
A dialog box titled "Find name of current students of an specific tutor" with a light blue header bar containing standard window controls. The main area has a light beige background. At the top left is a label "Current students" inside a light beige rectangular box. Below this is a "Tutor ID" label next to a dropdown menu showing "M125". To the right of the dropdown is the text "Pick the fields to display from a student". Below this text are three radio buttons: "Name", "Email", and "Phone Number". At the bottom right are two buttons: "OK" and "Cancel".

vi. Find the name of the best student at a particular grade level in any instrument.



The 'Best Student' dialog box features a title bar with standard window controls. The main area has a header section with a label 'Student Grades' and a subtitle 'Search for grade results among students'. Below this, there are two dropdown menus: 'Grade Level' set to '1' and 'Grade Result' set to 'Max Grade'. A section for 'Instrument' includes four radio buttons: 'Piano', 'Strings', 'Percussion', and 'Woodwing'. A 'Search' section contains three radio buttons: 'Name', 'Email', and 'Phone Number'. At the bottom right, there are 'OK' and 'Cancel' buttons.

vii. List the names and instruments played by all members of a particular orchestra in a particular school.



The 'Orchestra' dialog box has a title bar with standard window controls. The main area has a header section with a label 'The Hope Music School Orchestras'. Below this, there are two fields: 'School' with a dropdown menu set to 'Galway' and 'Orchestra Name' with a text input field. A 'Search' section contains four radio buttons: 'Student Name', 'Student phone', 'Student Email', and 'Instrument'. At the bottom right, there are 'OK' and 'Cancel' buttons.

viii. List the name of the winner of a competition.

List name winner of competition

Winners of The Hope Music Academy

School Limerick ▼

Instrument Piano ▼

Grade Level 1 ▼

Submitt