

CSE2102 Assignment Submission 3

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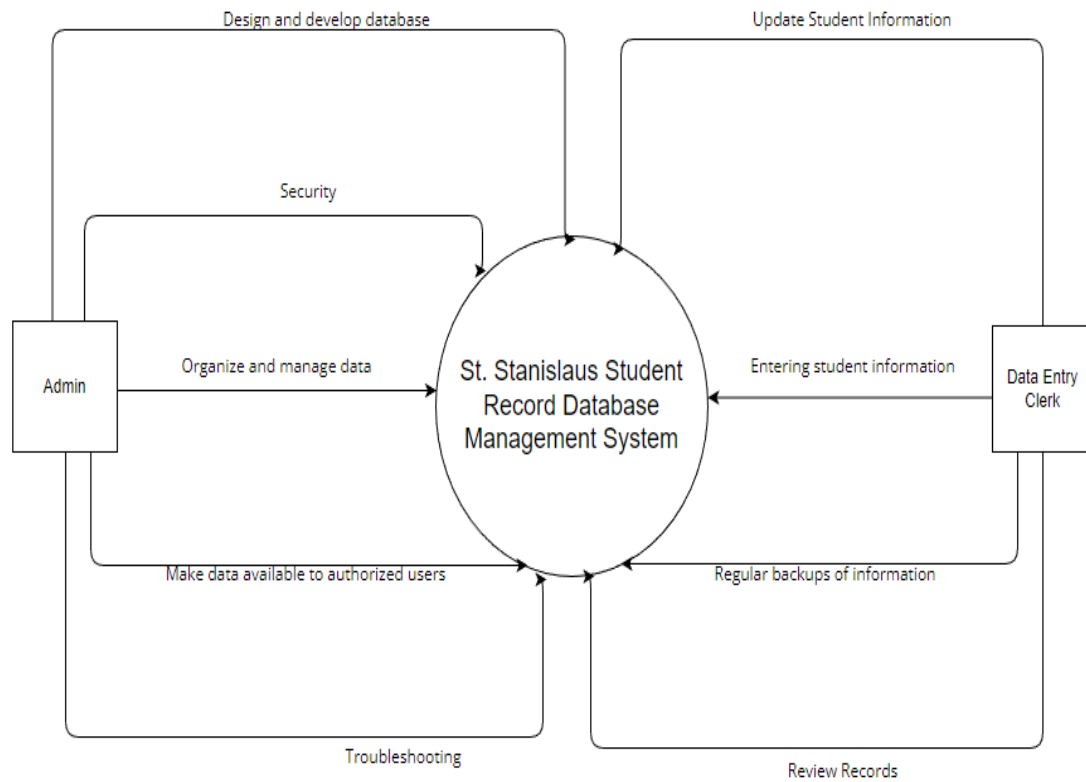
Contribution Report:

Online collaboration was done using a google docs folder to retrieve the various diagrams from the members of the group, and everyone communicated through WhatsApp. For the third submission they were six diagrams to create and we had six group members each group member created their diagram and submitted them. There was a great experience collaborating with the group we could easy communicate to create the respected diagrams, but this also became a weakness it was difficult to portray the write up to the diagrams but eventually finished with an amazing final product.

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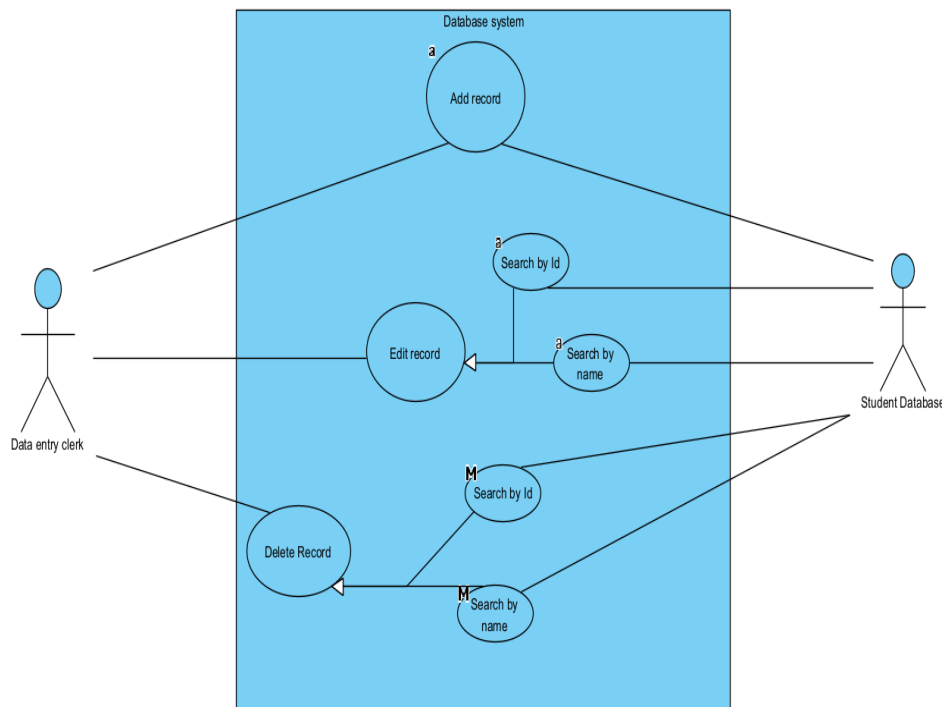
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Context Diagram



This context diagram shows how users can enter, retrieve and manipulate data in the system.

Use case Diagram



Use Case Description

A user submits a student's records which is entered into the database by the data entry clerk. If a user wishes to edit or delete a student's record they can search for it by name and id which is then transferred to the clerk for editing or removal.

Use Case	Add Record
Scenario	Data Entry Clerk is tasked with adding student(s) records to the database.
Triggering Event	Clerk is tasked with entering record.
Brief Description	The data entry clerk accesses the database to input a student's record.
Actors	Data Entry Clerk, Student's database
Related use cases	none
Stakeholders	Data Entry Clerk
Preconditions	Authorised access to database
Post Conditions	Students record is entered to database

Flow of activities	Data clerk accesses student database, inputs data
Exception Conditions	Notify user of mistakes during data entry

Use Case	Search by id
Scenario	view a specific student's information.
Triggering Event	Access specific student's record.
Brief Description	Retrieval of specific student's information.
Actors	Data Entry Clerk, Student's database
Related use cases	Edit record, search by name
Stakeholders	Data Entry Clerk
Preconditions	Records must exist, id entered must match existing record
Post Conditions	Output records based related to id.
Flow of activities	Data clerk accesses student database, inputs id, retrieves records.
Exception Conditions	Notify user if id does not exist, option to search another id, cancel search

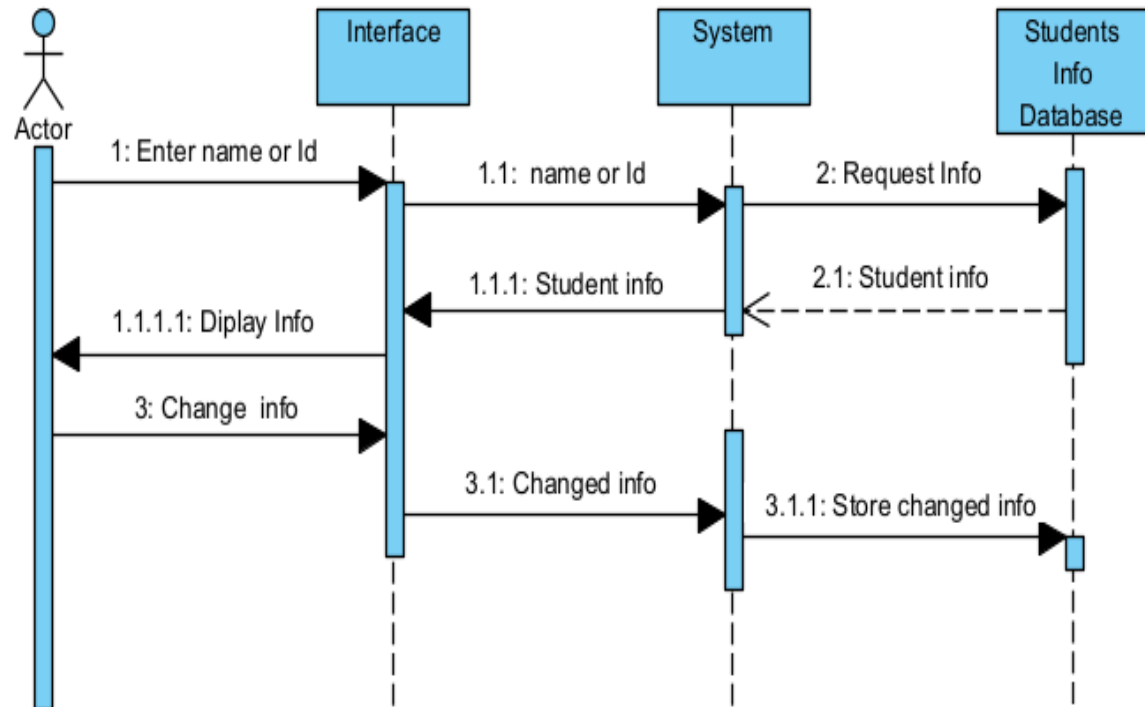
Use Case	Search by name
Scenario	Search for information related to a specific name.
Triggering Event	Searched based on name.
Brief Description	Retrieval of all information related to the name entered.
Actors	Data Entry Clerk, Student's database
Related use cases	Edit record, search by id
Stakeholders	Data Entry Clerk
Preconditions	Records must exist, name entered must match existing record
Post Conditions	Output records based on/and related to name.

Flow of activities	Data clerk accesses student database, inputs name, retrieves records.
Exception Conditions	Notify user if name does not exist, option to search another name, cancel search

Use Case	Edit record
Scenario	Edit existing records in the database.
Triggering Event	Access record.
Brief Description	edit students' information.
Actors	Data Entry Clerk, Student's database
Related use cases	Search by id, search by name
Stakeholders	Data Entry Clerk
Preconditions	Records must exist
Post Conditions	Update records edited.
Flow of activities	Data clerk accesses the student database, edits records.
Exception Conditions	Record not successfully edited, redo

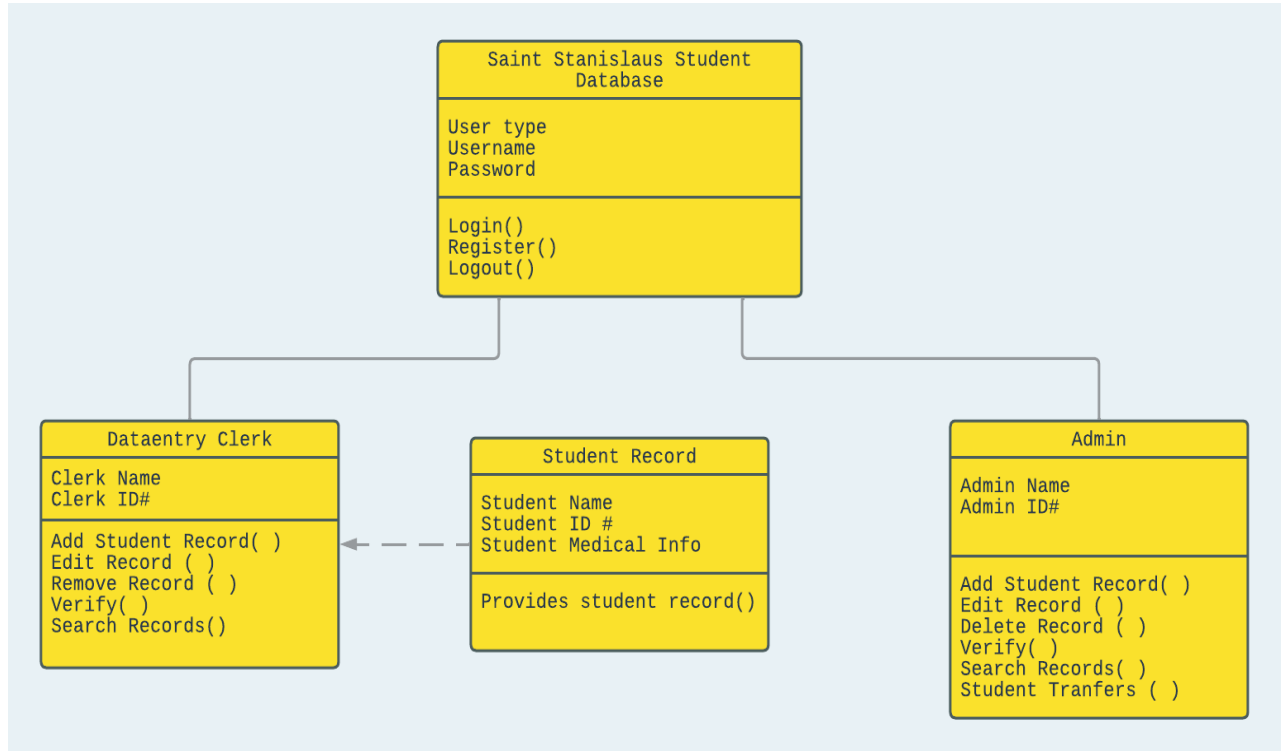
Use Case	Delete Record
Scenario	Delete record(s) in database.
Triggering Event	Records have been added or edited.
Brief Description	Deletion of student's information.
Actors	Data Entry Clerk, Student's database
Related use cases	none
Stakeholders	Data Entry Clerk
Preconditions	Records must exist,
Post Conditions	Record is removed from the database.
Flow of activities	Data clerk accesses student database, deletes record.
Exception Conditions	Undo delete

Sequence Diagram



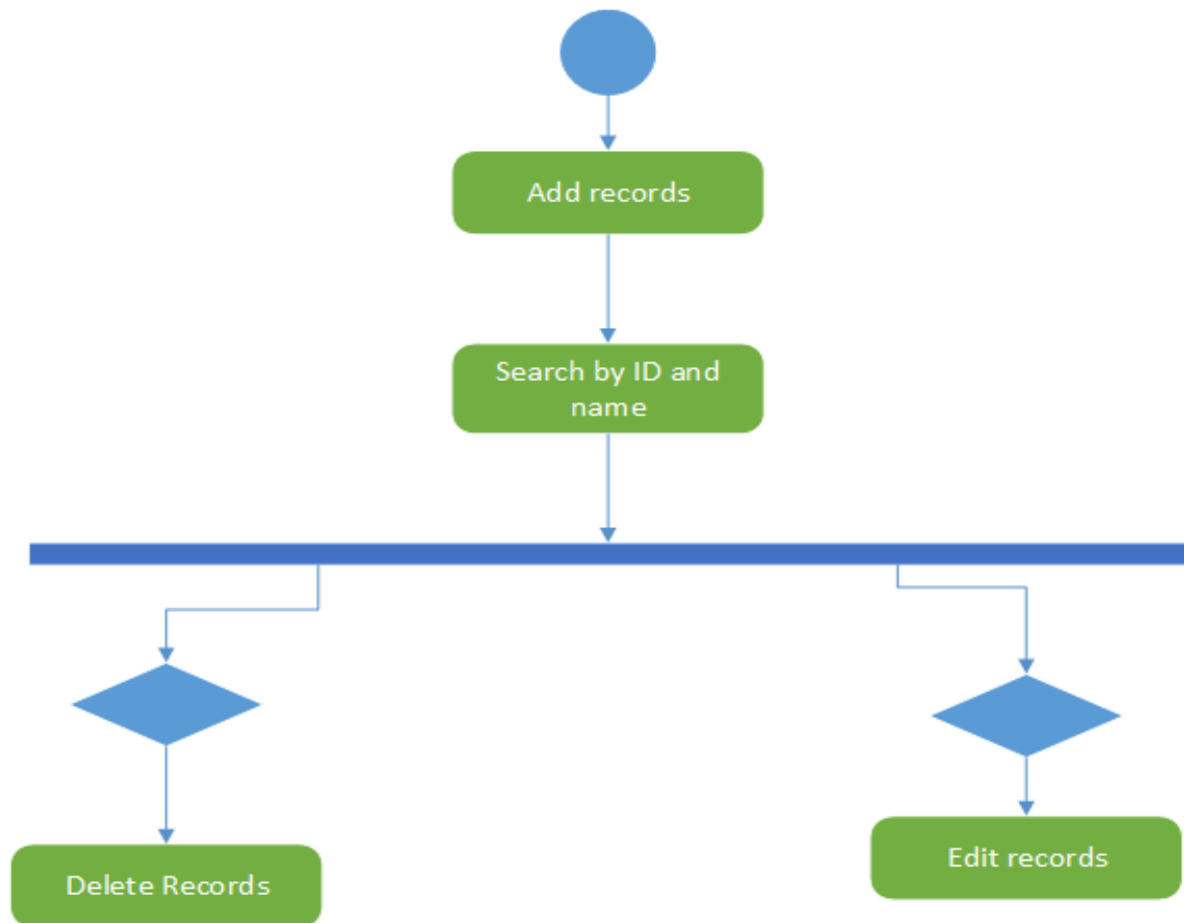
The Sequence diagram shows the actions taken in the system to edit a record in the system.

Class Diagram



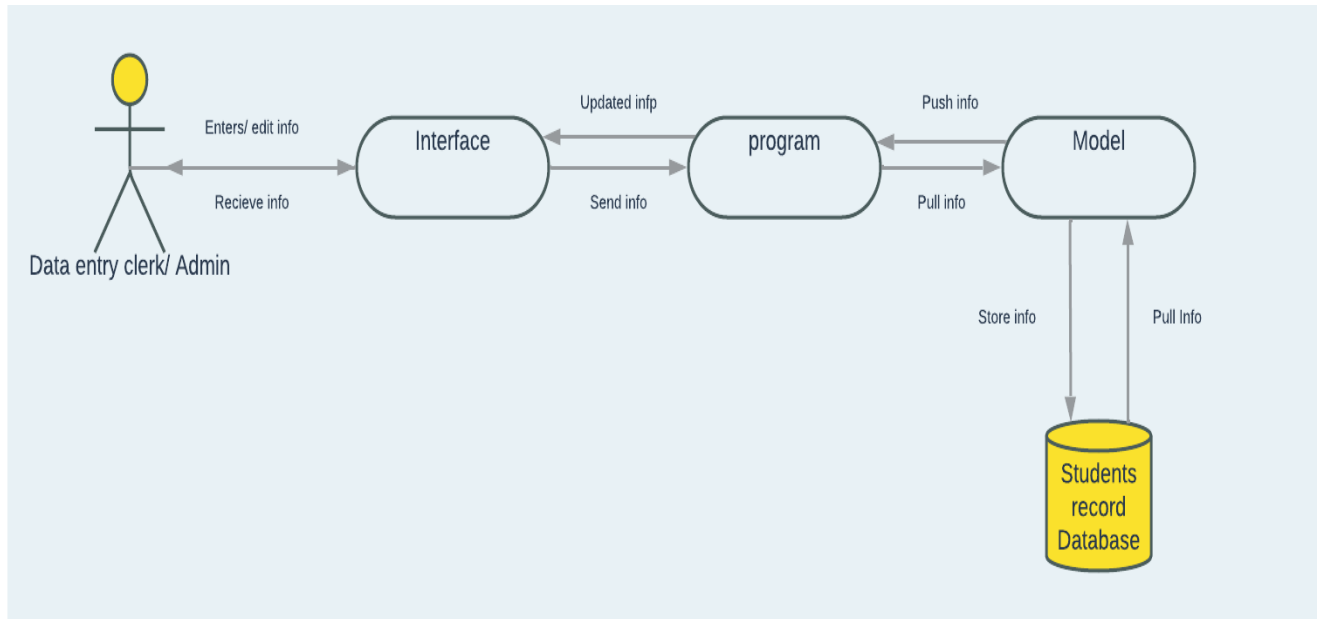
Shows the different classes in the system as well as what action that each class can be perform in the system users can perform

Activity Diagram



This activity diagram shows how information flows from process to process from record creation to searching for a record, editing it and deleting it.

Architecture Diagram: MVC Architecture



The Data entry clerk/admin will have information about the students and interact with the interface, sending information to a program which pushes the information to the model and requesting specific information from the model which pulls and stores information from the database.