



# Saints Stanislaus Secondary Students Information System



# Group Members:

A decorative yellow L-shaped line starting from the end of the title and extending horizontally to the right, then vertically downwards.

Timothy Paul

Ezekiel Dublin

Christopher Iles

Dwight Joseph

Roshawn Washington

A short, solid blue horizontal line.

Aliyah Shaw

A decorative yellow L-shaped line starting from the right, extending horizontally to the left, then vertically upwards.

# Problem and Solution

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Saints Stanislaus Secondary is currently using a paper based system to store information about their students, it has several deficiencies that causes damage and loss records.

Our solution is to eliminate the paper based system and to implement a database storage system to provide secure storing of data, efficient registration, and filter and retrieve required data.

# Feasibility

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The solution was deemed highly plausible due to the nature of the system at bare minimum only requiring a computer capable of processing and storing information and a databasing software such as Microsoft access and some form of internet access for cloud storage or backup.

# Risk Assessment

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Some of the risk that would affect the system include:

- Security risk- someone unaffiliated tries to access the system, with a moderate probability and serious effects this can be avoided with a proper authenticating system.
- Hardware Failure- Chance that equipment for any reason stops functioning, with a moderate probability and serious effects, this can be accounted for by using cloud based backups.
- Personal unavailable- have appropriate documentation for protocols to follow in case of emergency.

# Functional Requirement

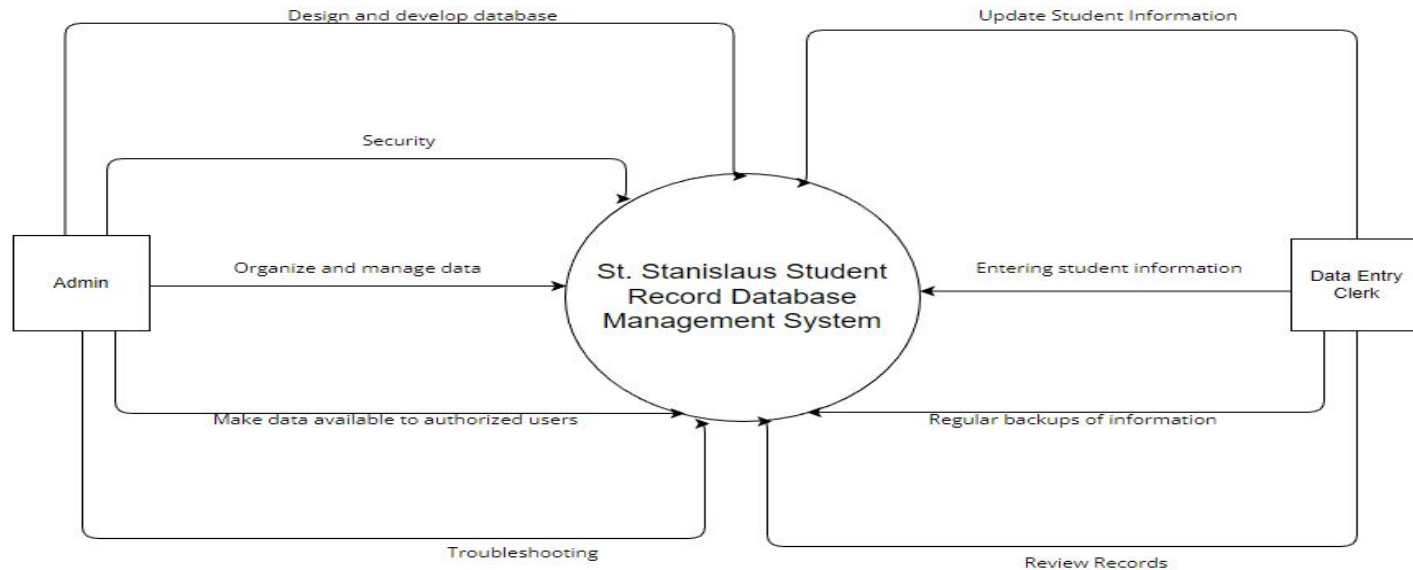
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- Add records- The program should allow to user to enter students records and information.
- Edit record- The ability to manipulate or change the data stored.
- Delete record- Allow users to remove a specified record.

# Non Functional Requirements

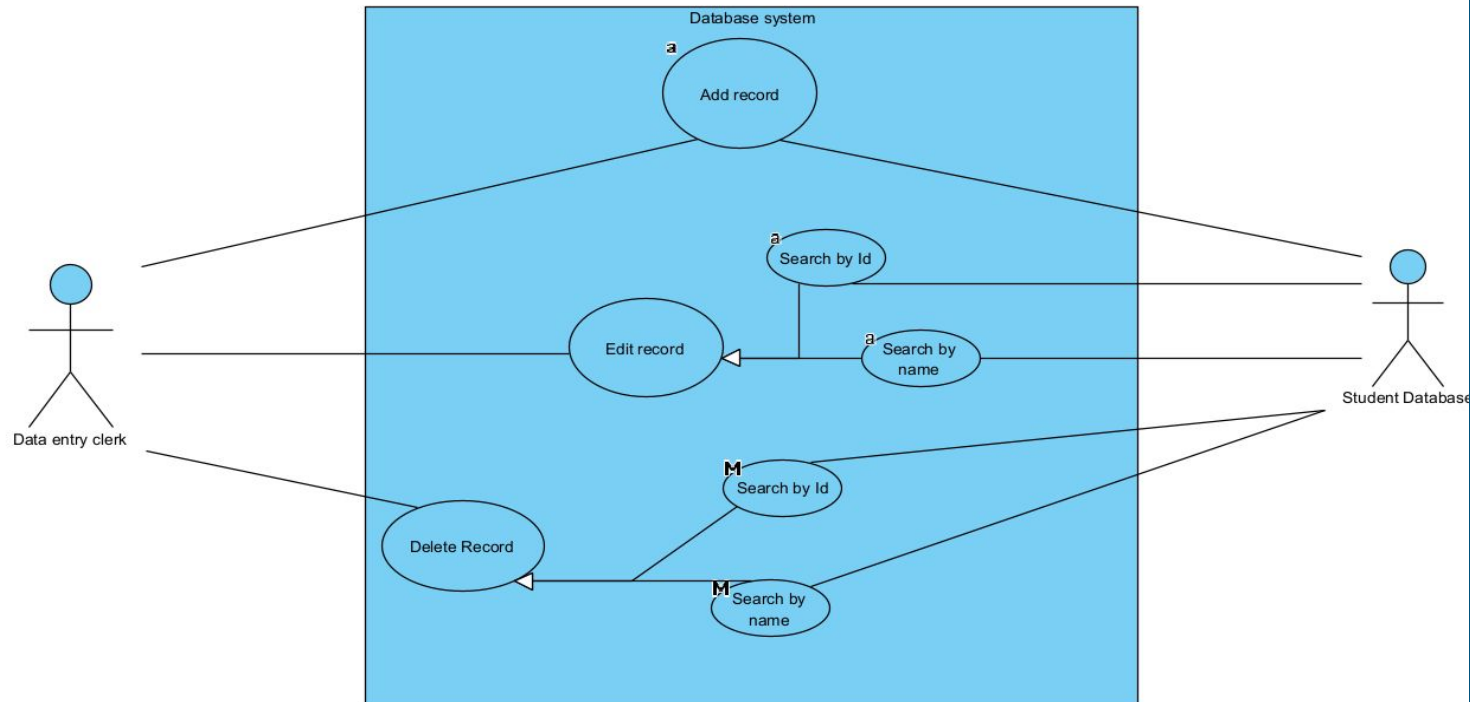
- Performance requirement- The user interface for the Database must be simple enough for ease of use.
- Safety Requirement include:
  - Cloud storage
  - Keeping the computers in a safe location
  - Control employee access.
- Security Requirements include:
  - Availability - Ensuring that all resources and information are always accessible to authorized users.
  - Integrity - Ensuring that data is only altered in a predetermined and approved manner
  - Confidentiality - Data, items, and resources are shielded against unwanted access and sight.

# System Design(Context Diagram)

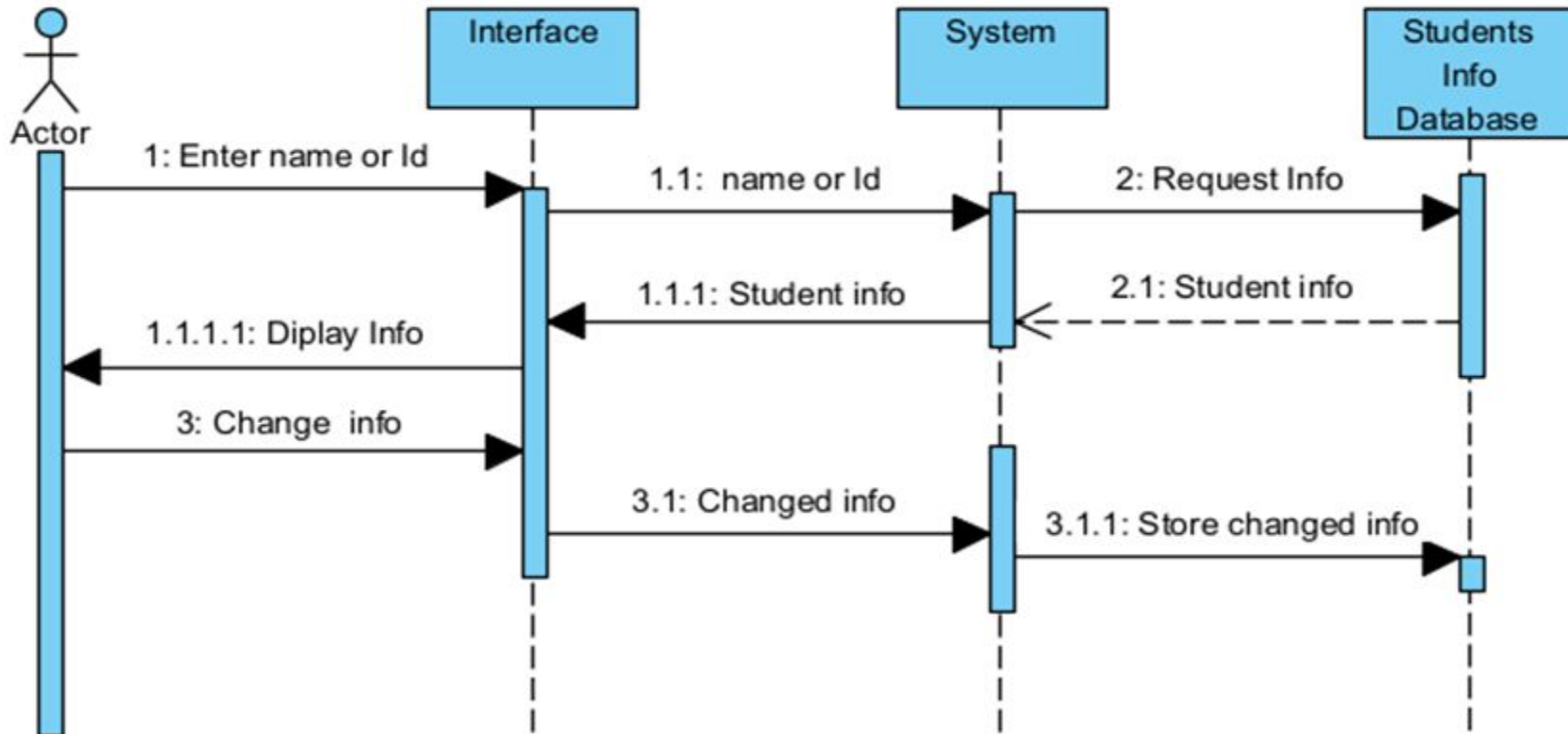




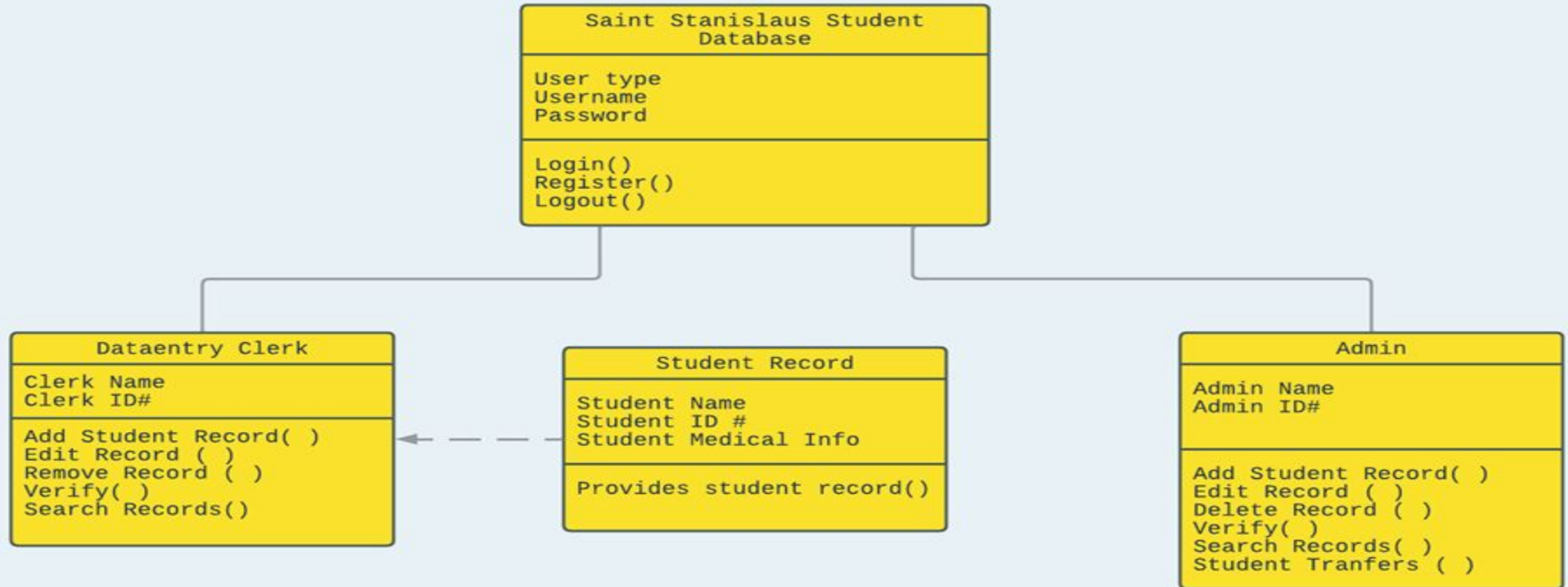
# System Design (Use Case Diagram)



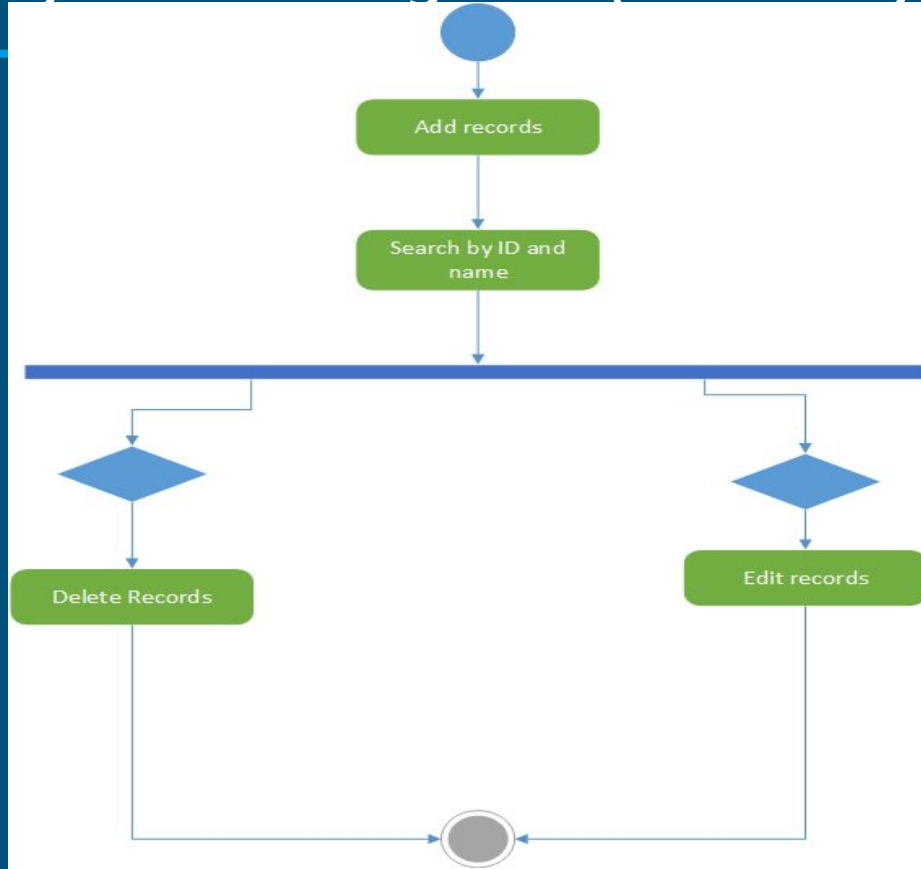
# System Design (Sequence Diagram)



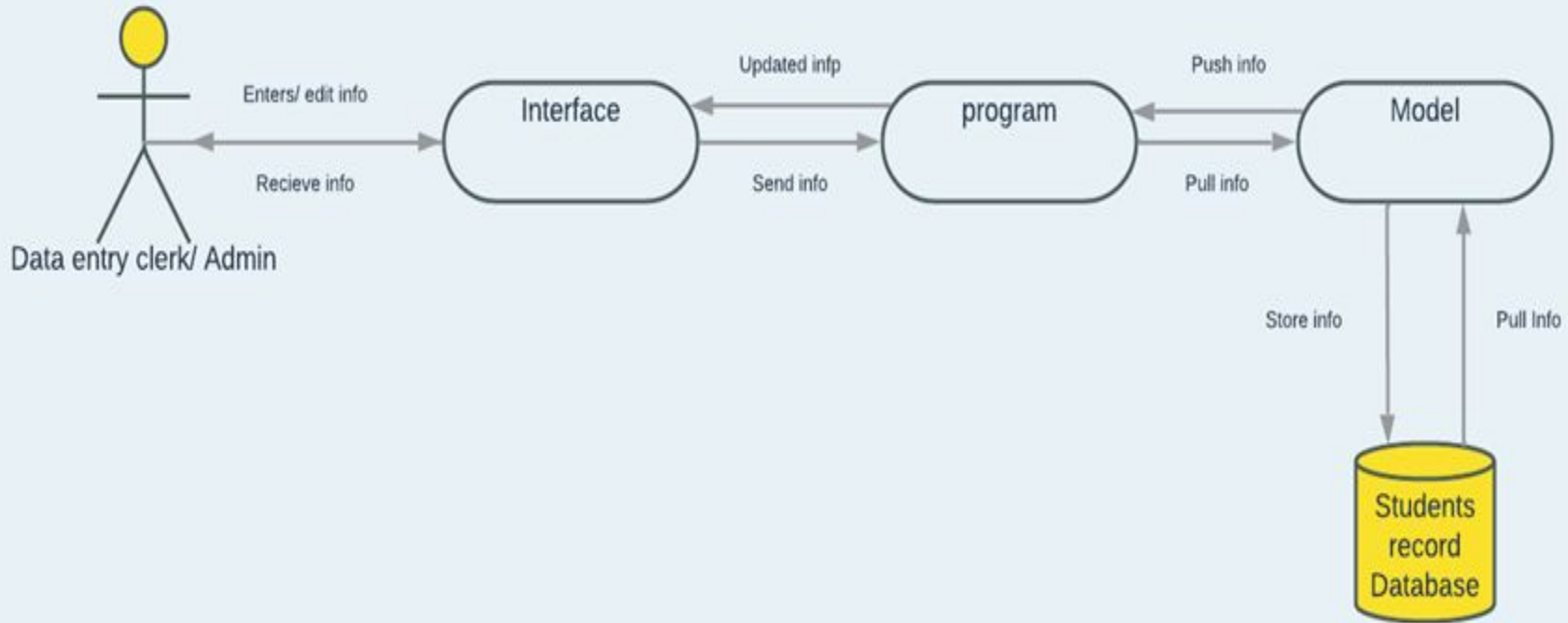
# System Design(Class Diagram)



# System diagram(Activity Diagram)



# System Design (MVC Architecture)



# Test Case

Test case ID	TC_ED_1
Test priority (Low/Medium/High):	High
Test Title/Name:	Edit data
Test Summary/Description	Allow users to edit student information.
Pre-conditions	User must have successfully logged in.
Dependencies	TC_AD_1
Test Steps	<ol style="list-style-type: none"><li>1. Select Edit</li><li>2. Enter name/Id</li><li>3. Select information</li><li>4. Change the information</li><li>5. Confirm Information change</li></ol>
Test Data	<ul style="list-style-type: none"><li>• Name: Alexander Hamilton</li><li>• Address: 240 Washington drive</li><li>• DoB: 01/11/1757</li><li>• Grade: Maths A</li><li>• Teacher: Alan Walker</li><li>• Parent Name 1: Johnny Depth</li><li>• Parent Nam2: Amber Heard</li><li>• Emergency Contact: 6702842</li></ul>

**Expected Results**

Upon entering new information, it should display a form with all the new and unchanged information confirming whether or not you want to change the information.

It should display an error message for any incorrect data types entered saying please enter appropriate data along with an example of correct data type e.g Please enter appropriate data (6702842).

**Post Condition**

Program should return to the home screen and data entered should be saved.