WELCOME TO THE PRESENTATION

ON

STUDENT INFORMATION SYSTEM

PRESENTED BY :

- *Pratyusha Chatterjee (22022002016013)*
- *Debajyoti Mitra(22022002016015)*
- *Twisha Talukder(22022002016003)*

SUPERVISED BY :

Mr. Subhajit Adhikari

Mr. Subhadeep Chandra

Computer Science & Engineering[AI & ML]

Institute Of Engineering & Management

WHAT'S INSIDE

- OBJECTIVE
- INTRODUCTION
- BACKGROUND STUDY
- USER OF SYSTEM
- SOFTWARE AND HARDWARE REQUIREMENTS
- DATA FLOW DIAGRAM
- USE CASE DIAGRAM
- SYSTEM IMPLEMENTATION
- CONCLUSION

OBJECTIVE

- ***Efficient Student Data Management :***
  Simplify the process of managing student information seamlessly.
- ***Enhance Academic Monitoring :***
  Enable real-time tracking of student attendance and academic performance.
- ***Insights through Analytics :***
  Provide valuable insights into student performance and trends through analytics.
- ***Customization for Diverse Needs :***
  Support customization to cater to unique academic and administrative requirements.
- ***Scalability for Varied Institutions :***
  Ensure scalability to accommodate different sizes and complexities of educational institutions.

INTRODUCTION

Welcome to our Student Information System project—a comprehensive solution designed to streamline student data management. From efficient record-keeping to enhancing communication, our system aims to simplify administrative processes and provide valuable insights for informed decision-making. Join us in revolutionizing the educational experience for students and administrators alike.

BACKGROUND STUDY

- JavaScript(JS)
- NetBeans(IDE)
- MySqlLite
- Java

USER OF SYSTEM

1. Administrators
2. Faculty and Instructors
3. Students
4. Parents and Guardians
5. Admissions Staff
6. Registrar's Office
7. Financial Aid Officers
8. System Administrators

SOFTWARE AND HARDWARE REQUIREMENTS

- Hardware(Recommended): -

- ❑ i3 Core or above.
- ❑ Minimum 4 GB RAM or above.
- ❑ Minimum hard disk 40 GB or above.

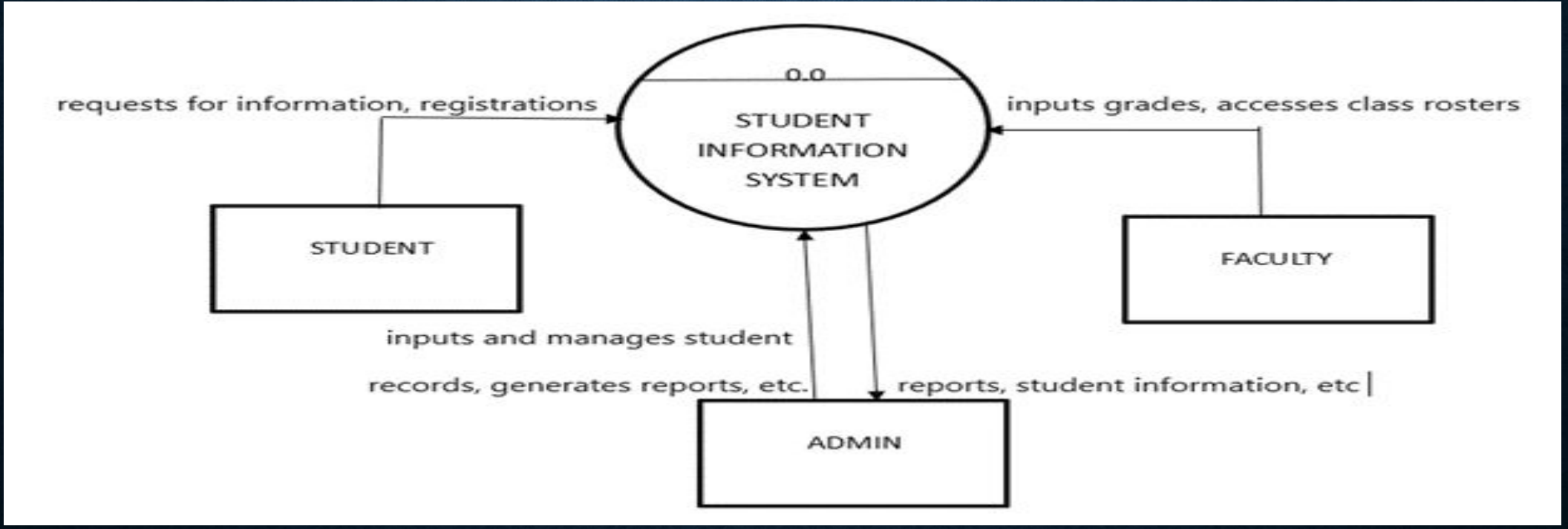
- Software(Recommended): -

- ❑ Windows operating system.
- ❑ Express Java–web server
- ❑ MYSQL- a relational database management system

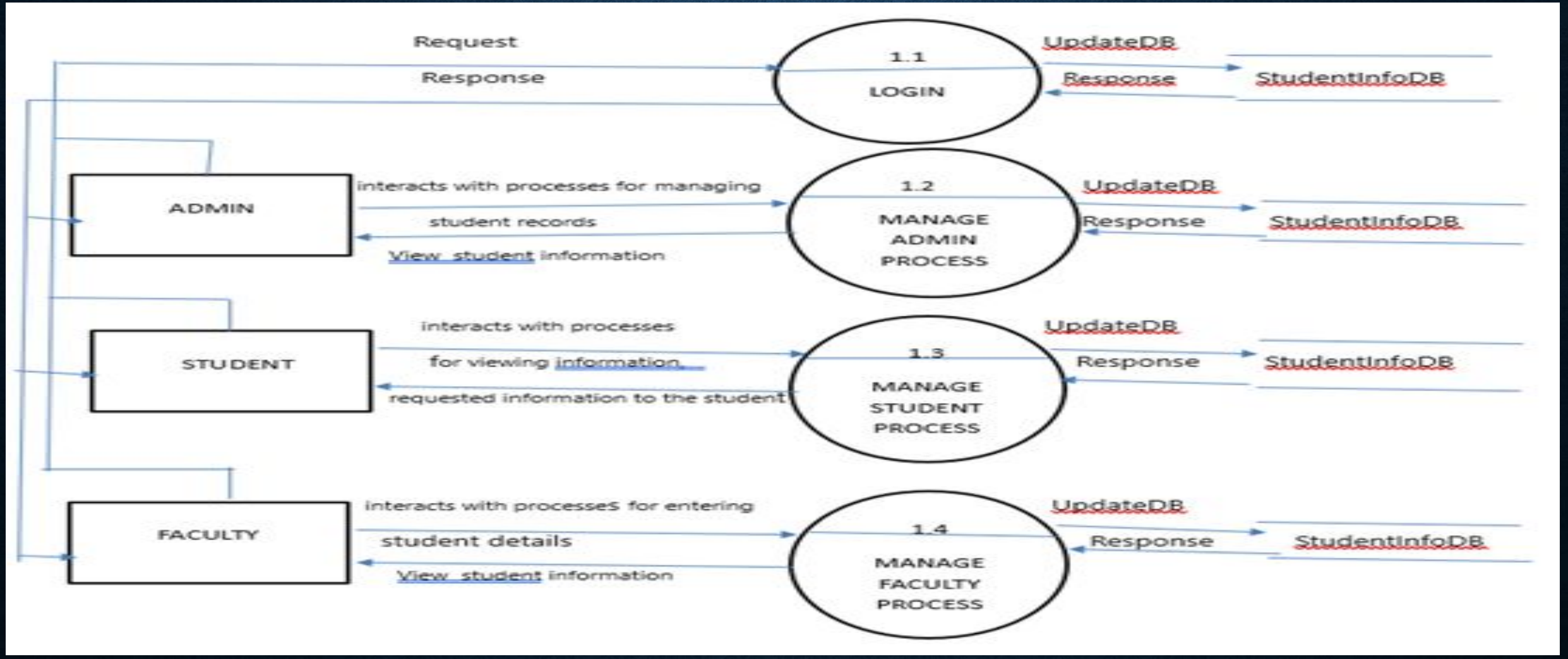
DATA FLOW DIAGRAM (DFD)

A Data Flow Diagram is a method of speaking to a progression of information through a cycle or a system. The DFD also provides information about the outputs and inputs of each entity and the process itself.

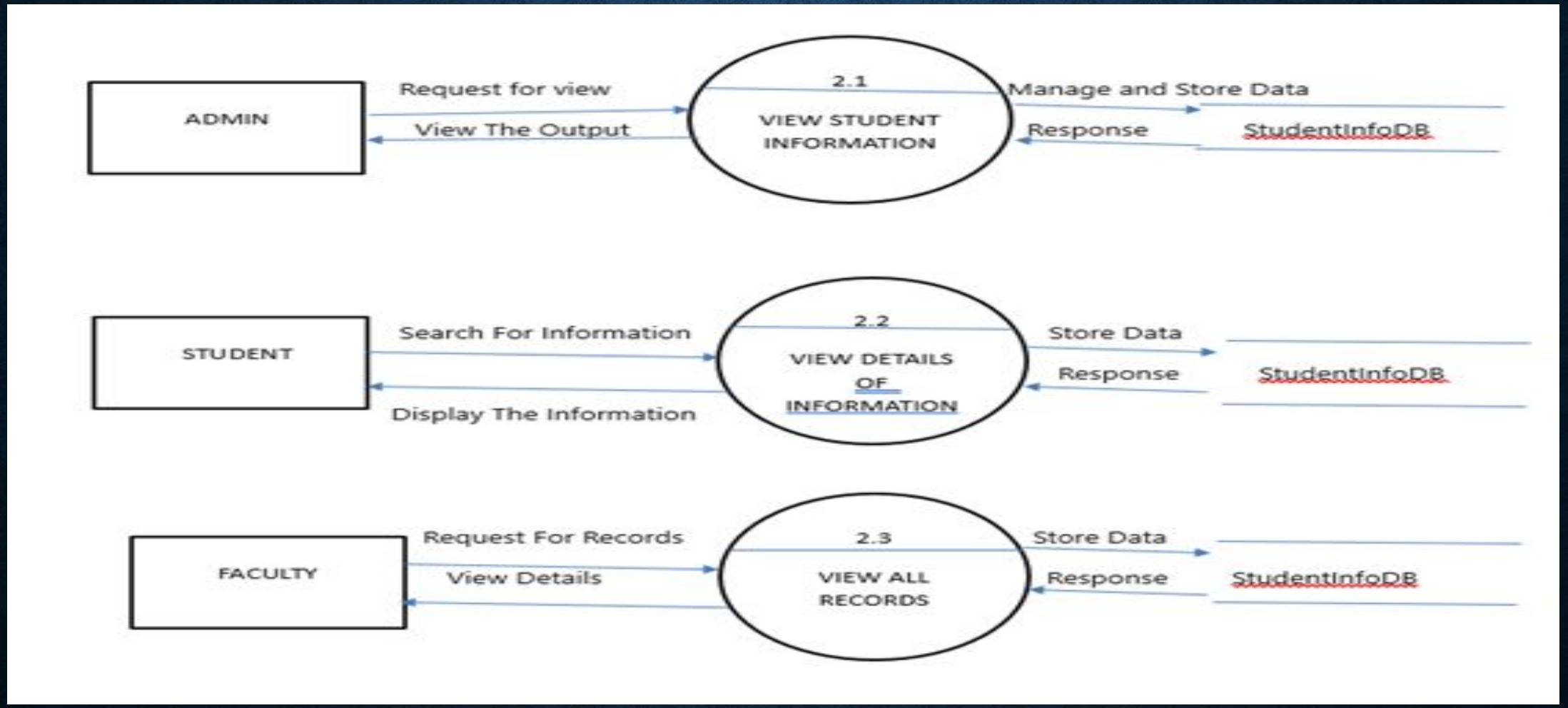
CONTEXT OR ZERO LEVEL DFD -



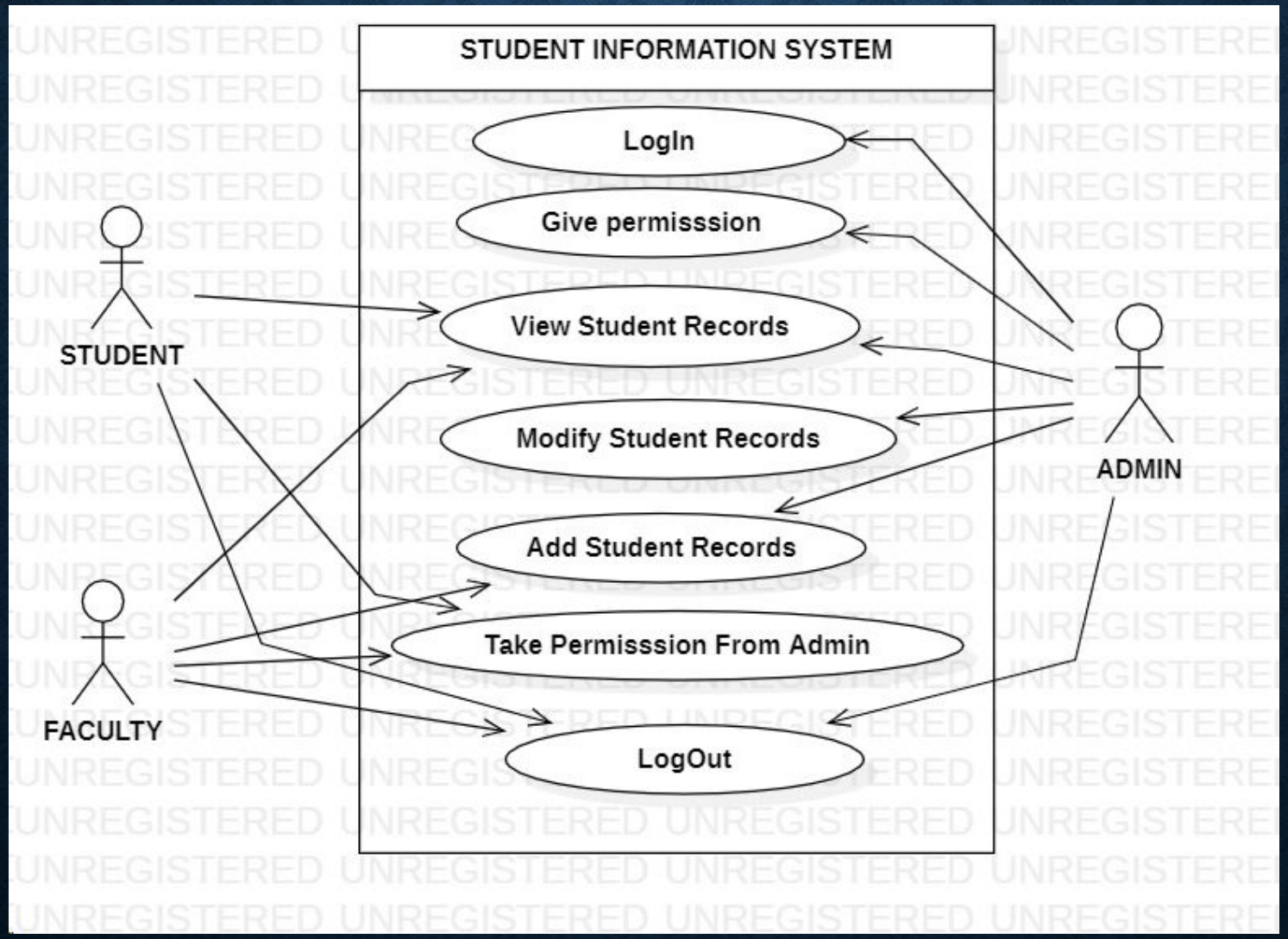
LEVEL 1 DFD


Request
Response
1.1
LOGIN
UpdateDB
Response
StudentInfoDB
ADMIN
interacts with processes for managing
student records
View student information
1.2
MANAGE ADMIN PROCESS
UpdateDB
Response
StudentInfoDB
STUDENT
interacts with processes
for viewing information
requested information to the student
1.3
MANAGE STUDENT PROCESS
UpdateDB
Response
StudentInfoDB
FACULTY
interacts with processes for entering
student details
View student information
1.4
MANAGE FACULTY PROCESS
UpdateDB
Response
StudentInfoDB

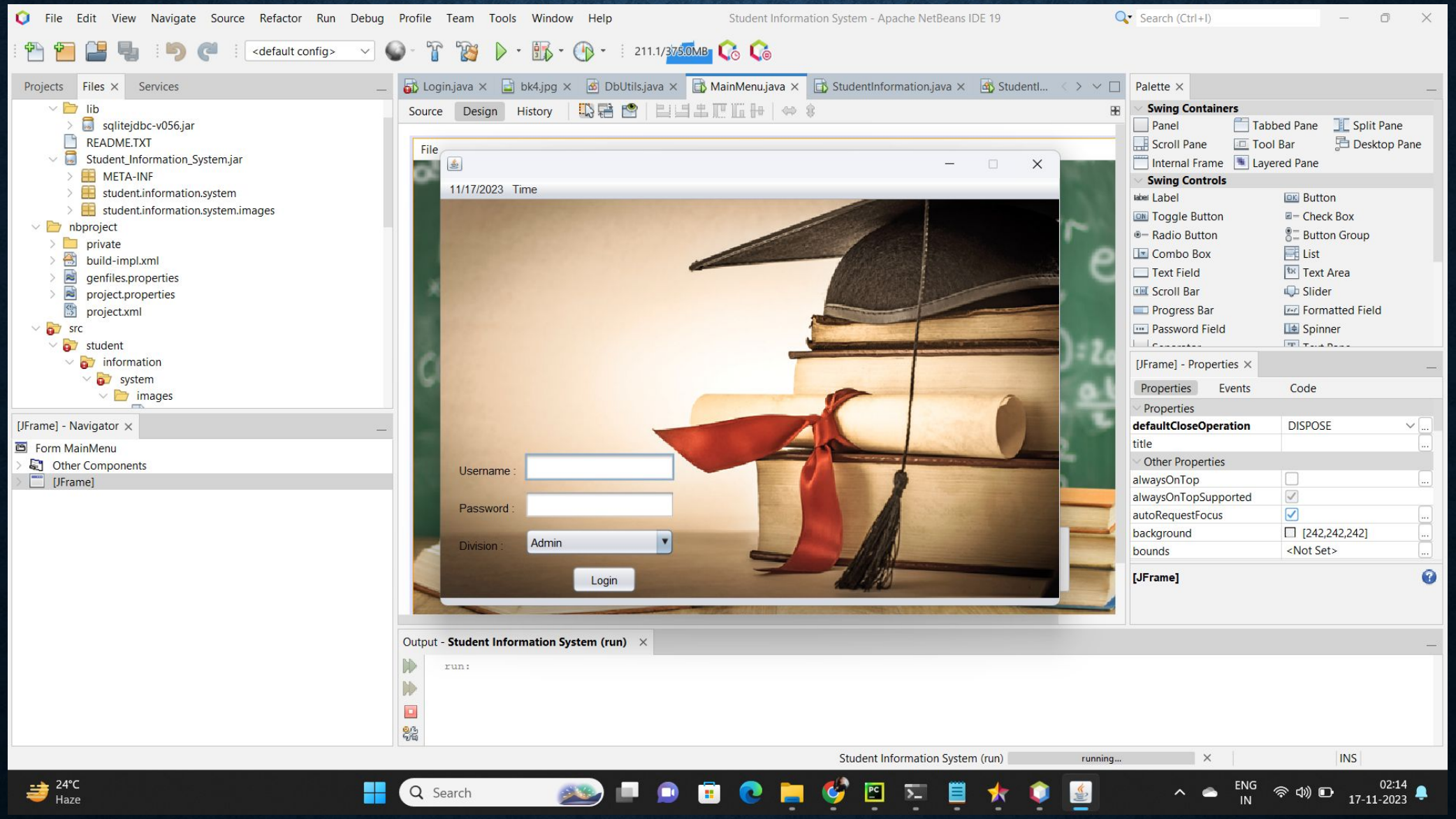
LEVEL 2 DFD


ADMIN
Request for view
View The Output
2.1
VIEW STUDENT INFORMATION
Manage and Store Data
Response
StudentInfoDB
STUDENT
Search For Information
Display The Information
2.2
VIEW DETAILS OF INFORMATION
Store Data
Response
StudentInfoDB
FACULTY
Request For Records
View Details
2.3
VIEW ALL RECORDS
Store Data
Response
StudentInfoDB

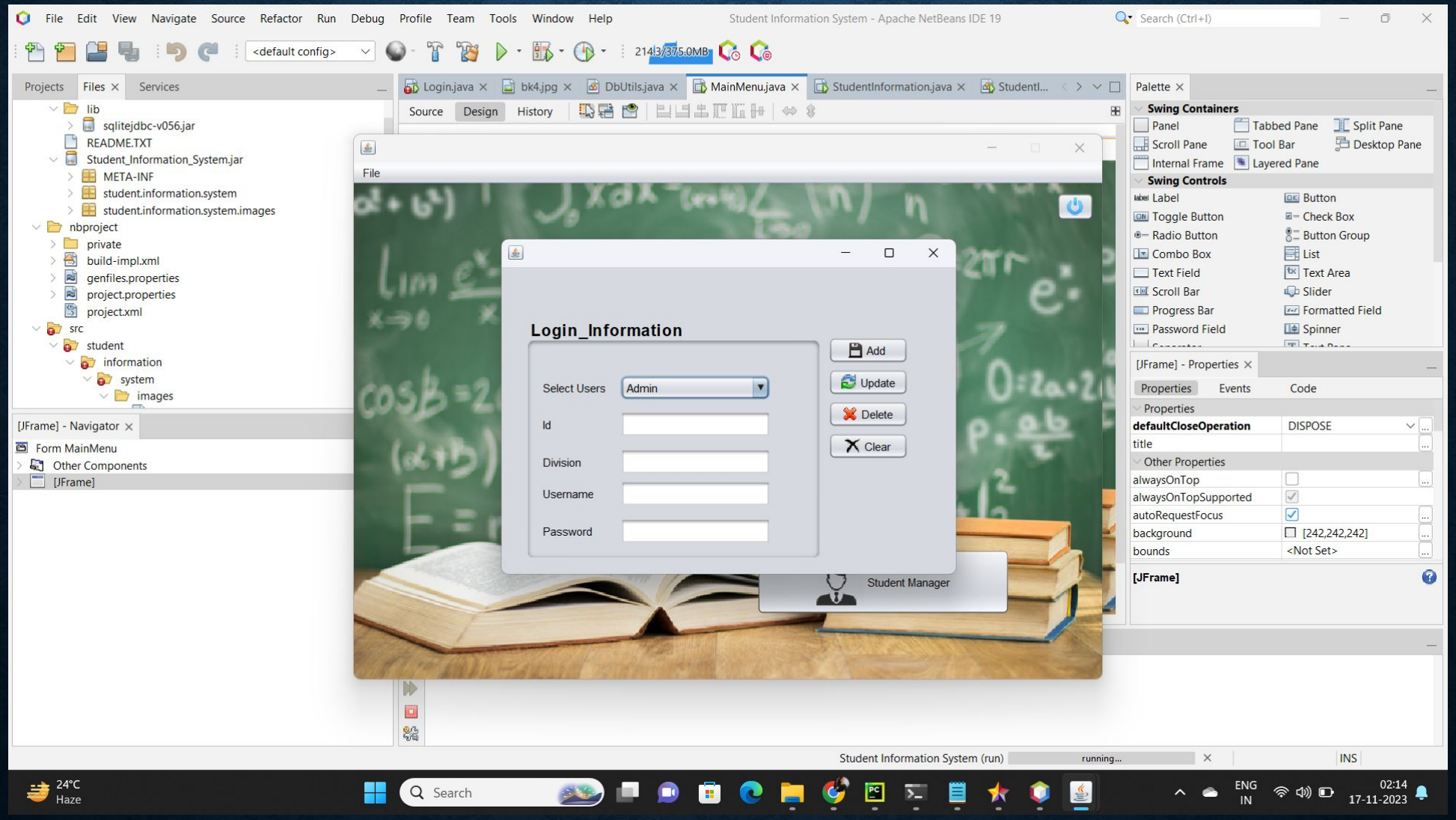
USE CASE DIAGRAM



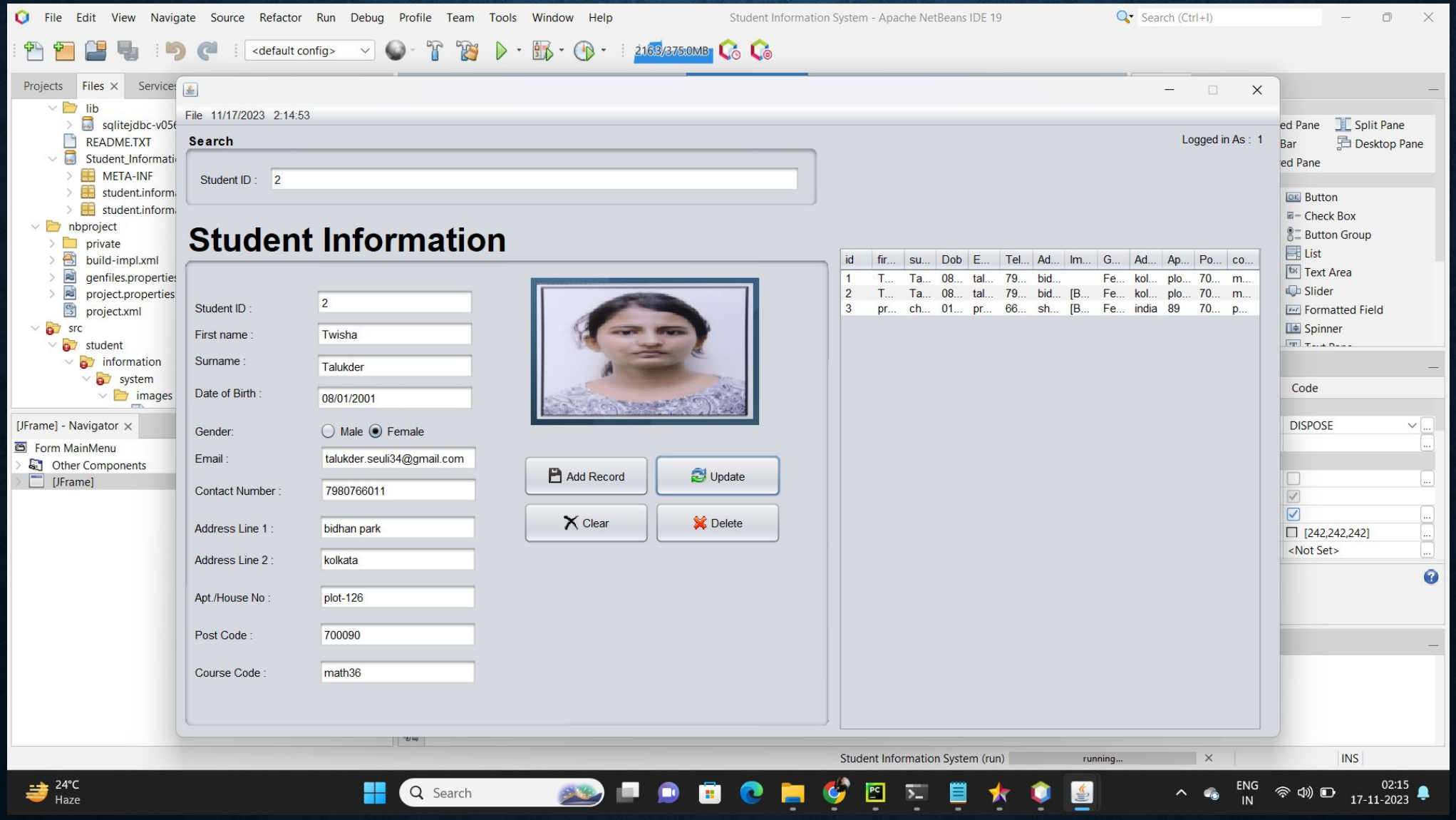
Home Page


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Student Information System - Apache NetBeans IDE 19
Search (Ctrl+I)
<default config>
211.1/375.0MB
Projects
Files
Services
lib
sqlitejdbc-v056.jar
README.TXT
Student_Information_System.jar
META-INF
student.information.system
student.information.system.images
nbproject
private
build-impl.xml
genfiles.properties
project.properties
project.xml
src
student
information
system
images
[JFrame] - Navigator
Form MainMenu
Other Components
[JFrame]
Login.java
bk4.jpg
DbUtils.java
MainMenu.java
StudentInformation.java
Source
Design
History
File
11/17/2023 Time
Username :
Password :
Division :
Admin
Login
Palette
Swing Containers
Panel
Tabbed Pane
Split Pane
Scroll Pane
Tool Bar
Desktop Pane
Internal Frame
Layered Pane
Swing Controls
Label
Button
Toggle Button
Check Box
Radio Button
Button Group
Combo Box
List
Text Field
Text Area
Scroll Bar
Slider
Progress Bar
Formatted Field
Password Field
Spinner
[JFrame] - Properties
Properties
Events
Code
defaultCloseOperation
DISPOSE
title
Other Properties
alwaysOnTop
alwaysOnTopSupported
autoRequestFocus
background
[242,242,242]
bounds
<Not Set>
[JFrame]
Output - Student Information System (run)
run:
Student Information System (run)
running...
INS
24°C
Haze
Search
ENG
IN
02:14
17-11-2023

LOGIN PAGE


File Edit View Navigate Source Refactor Run Debug Profile Team Tools Window Help
Student Information System - Apache NetBeans IDE 19
Projects Files Services
Login.java bk4.jpg DbUtils.java MainMenu.java StudentInformation.java
Source Design History
Palette
Swing Containers
Panel Tabbed Pane Split Pane
Scroll Pane Tool Bar Desktop Pane
Internal Frame Layered Pane
Swing Controls
Label Button
Toggle Button Check Box
Radio Button Button Group
Combo Box List
Text Field Text Area
Scroll Bar Slider
Progress Bar Formatted Field
Password Field Spinner
[JFrame] - Properties
Properties Events Code
defaultCloseOperation DISPOSE
title
Other Properties
alwaysOnTop
alwaysOnTopSupported
autoRequestFocus
background [242,242,242]
bounds <Not Set>
[JFrame]
[JFrame] - Navigator
Form MainMenu
Other Components
[JFrame]
File
Login_Information
Select Users Admin
Id
Division
Username
Password
Add
Update
Delete
Clear
Student Manager
Student Information System (run) running...
INS
24°C Haze
Search
ENG IN
02:14 17-11-2023

Students Record Page



CONCLUSION

In conclusion, our Student Information System represents a transformative solution, fostering efficiency, security, and collaboration within educational institutions. By seamlessly managing student data, promoting informed decision-making, and ensuring scalability, we empower educators and administrators to focus on what truly matters – the success and growth of each student.

THANK YOU