# UNIVERSITY MODEL

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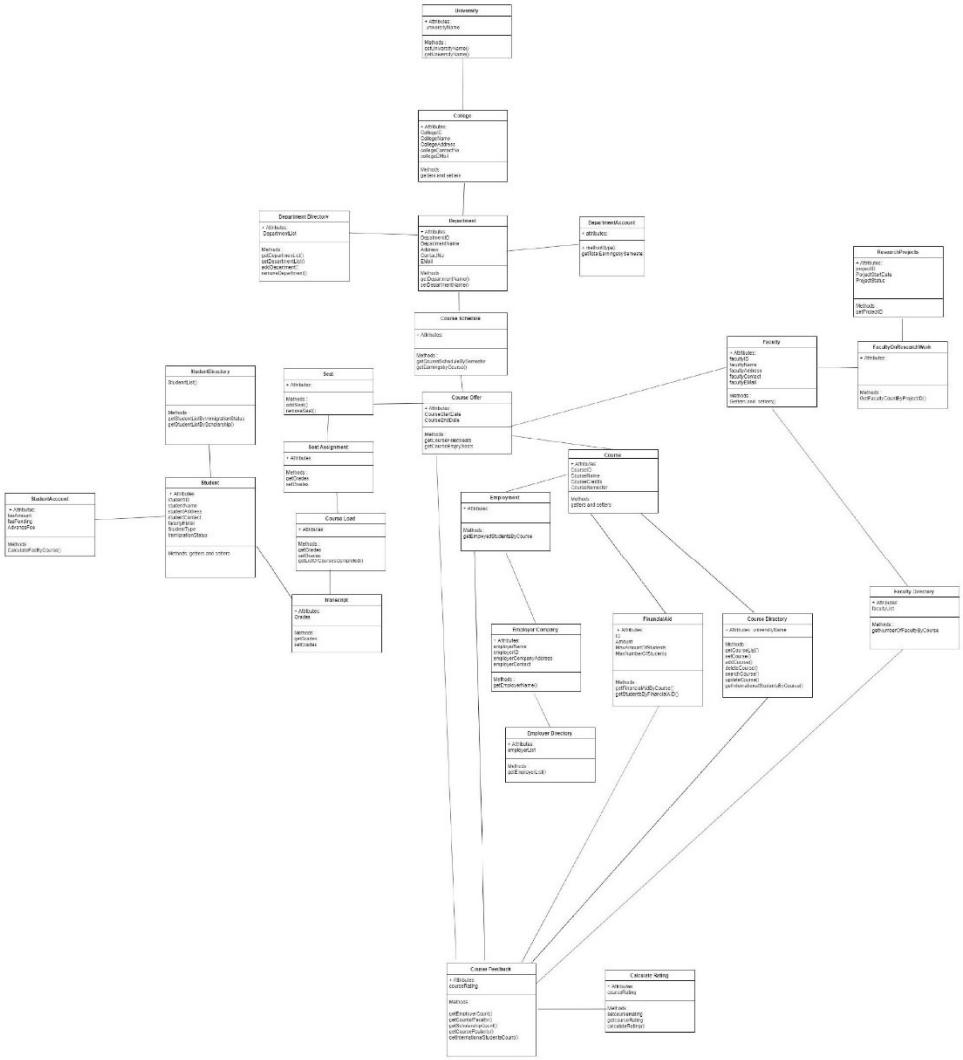
**Model Purpose:**

- The application's main purpose is for the University admins to monitor the university's performance, based on various factors. This model will take into consideration student performance, faculty performance, alumni performance, and other factors to maintain a score for each entity. Using test and data from faker class, we can keep track of the details of our alumni. Overall, we will maintain a score for each of the required entities and assign a rank based on their score which will be displayed to the University Admins.

**Basic Workflow of Our Ranking System:**

- Our system allows different login page each for Admin, Student and Faculty.
- As an Admin, capabilities are to add/delete a new course, department, faculty, college and view/edit a basic benchmark for ranking of courses, department, faculty, college based on various factors.
- As a Student, they can view courses taken in a semester and view grades for each course. Student can view rating of each course, faculty associated with that course and can add/drop courses accordingly. Student can also view dashboards depicting comparison of courses, faculty which help them pursue job-focused or research courses. Student can also provide feedback for each course which helps college and faculty to improve their courses.
- As a Faculty, they can view courses in given semester and see seats assigned for that course and students registered. Also, he can grade performance of students and view dashboard/feedback for any improvement of courses.

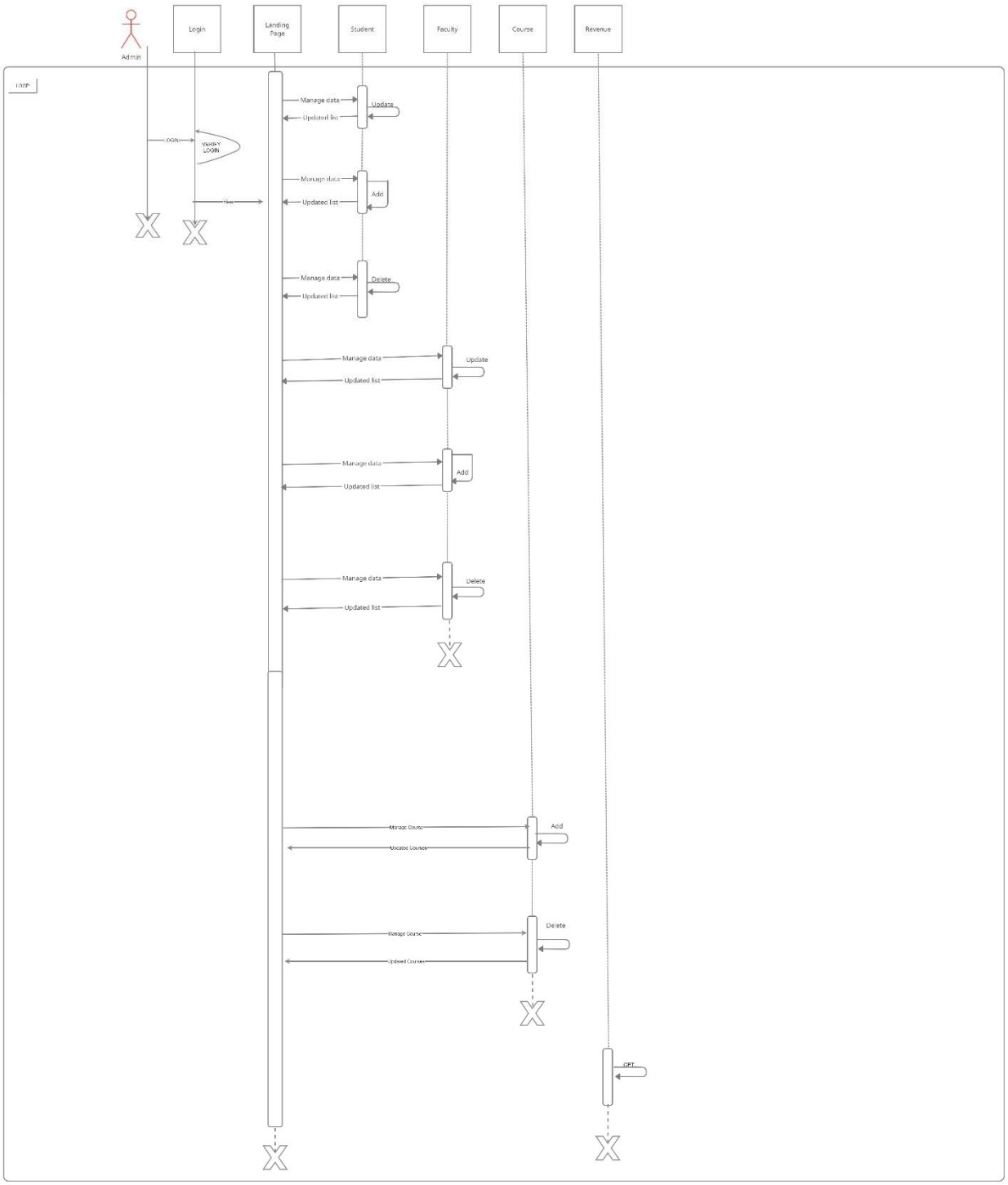
**UML Class Diagram:**



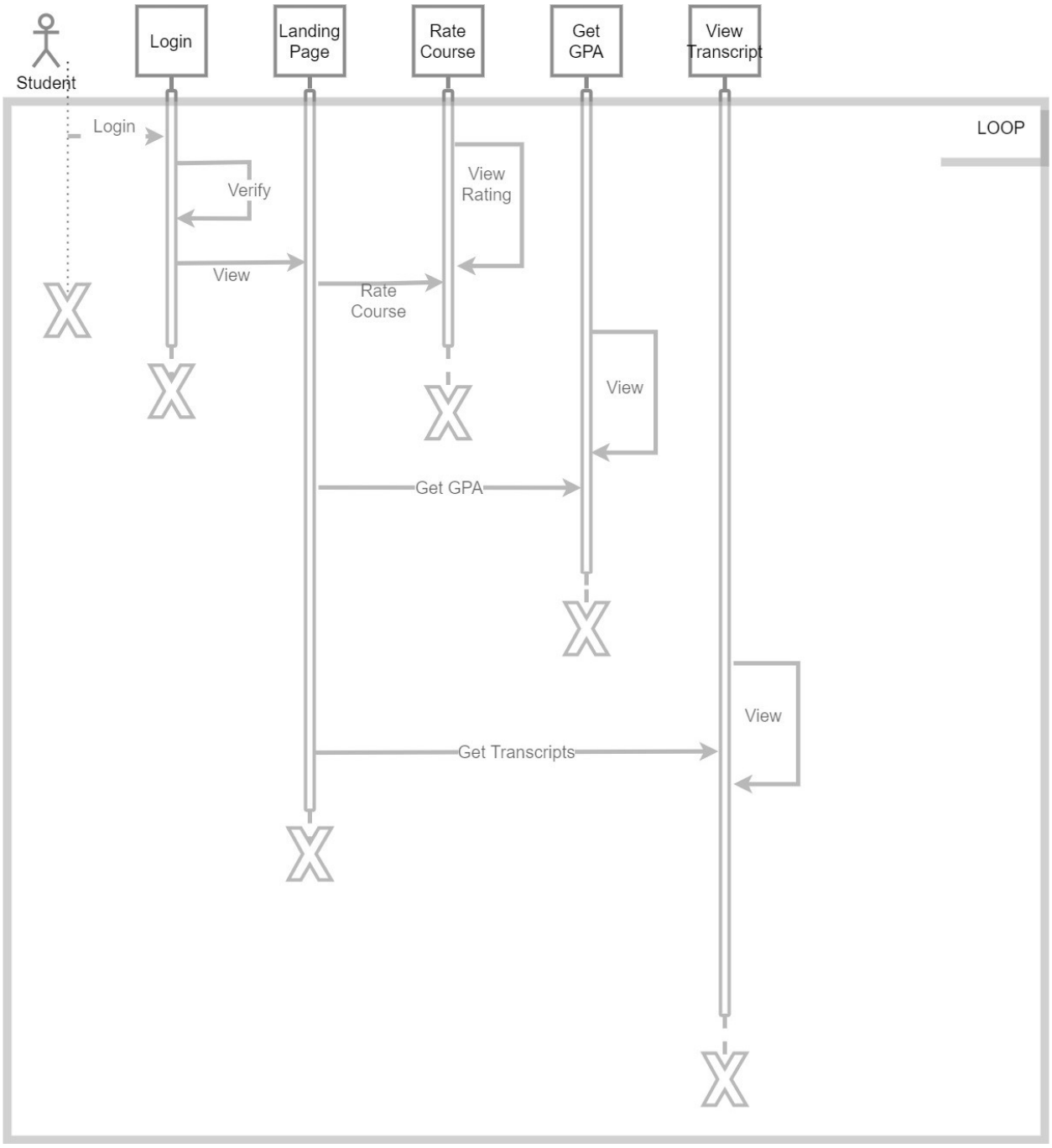
**Sequence Diagram:**

- Sequence diagram below depicts how to navigate through our current system to deliver performance metrics needed for performance and feedback. Below are three sequence diagrams depicting how admin, student and faculty navigate through our application.

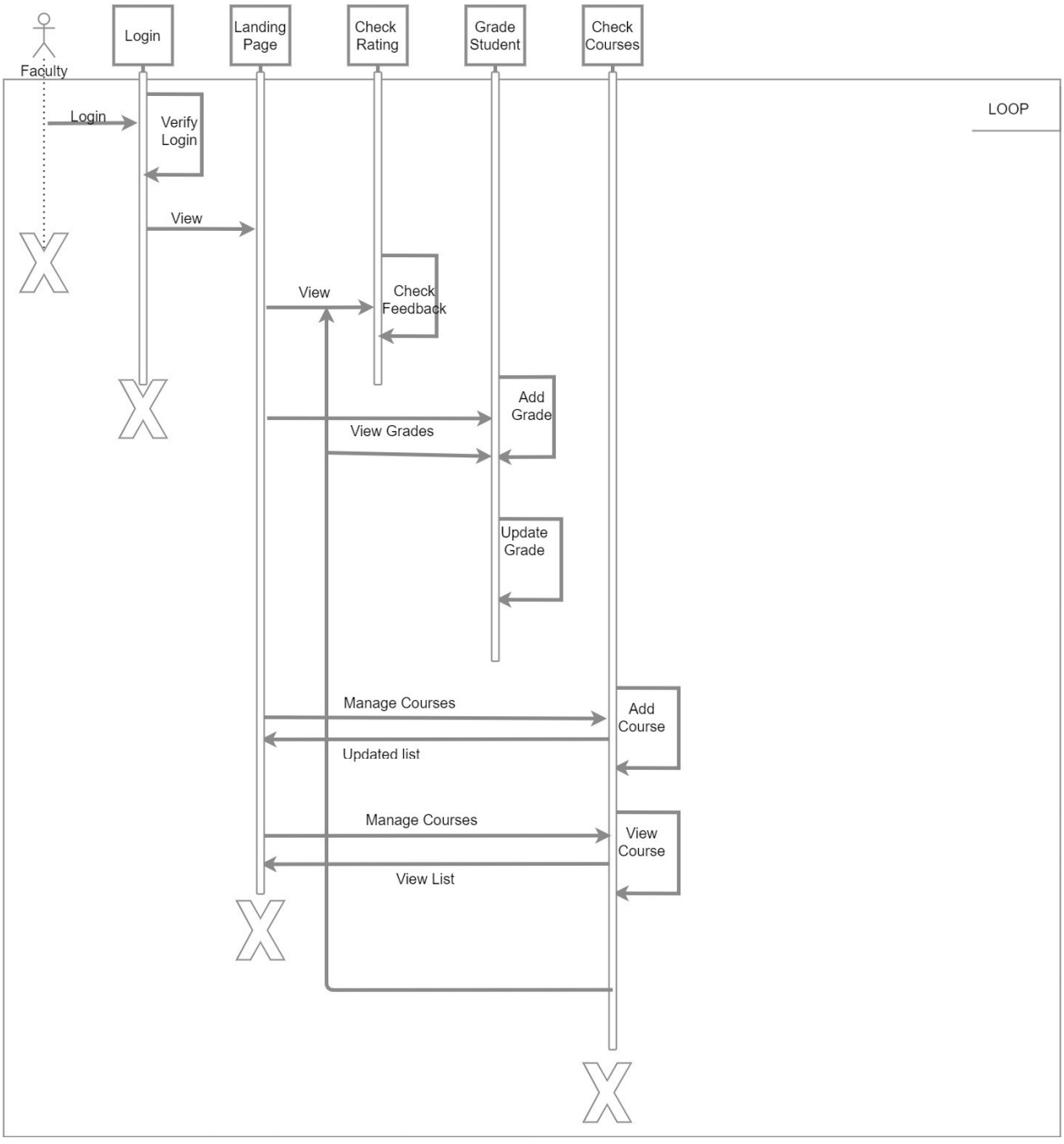
**Admin:**


Admin
Login
Landing Page
Student
Faculty
Course
Revenue
LOOP
Manage data
Update
Updated list
LOGIN
VERIFY LOGIN
Manage data
Add
Updated list
Manage data
Delete
Updated list
Manage data
Update
Updated list
Manage data
Add
Updated list
Manage data
Delete
Updated list
Manage Course
Add
Updated Courses
Manage Course
Delete
Updated Courses
GET

**Student:**

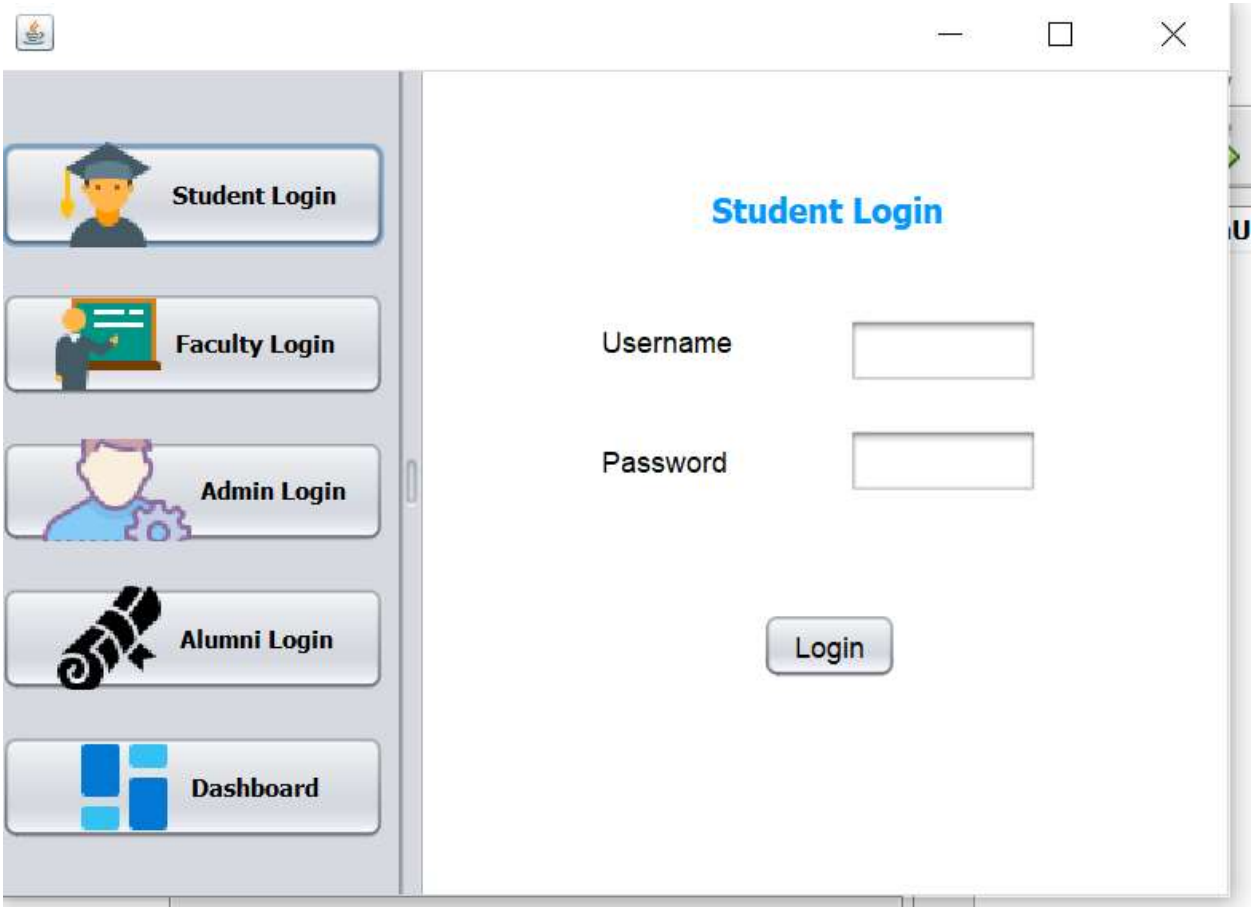

Student
Login
Landing Page
Rate Course
Get GPA
View Transcript
LOOP
Login
Verify
View
Rate Course
View Rating
View
Get GPA
View
Get Transcripts

**Faculty:**

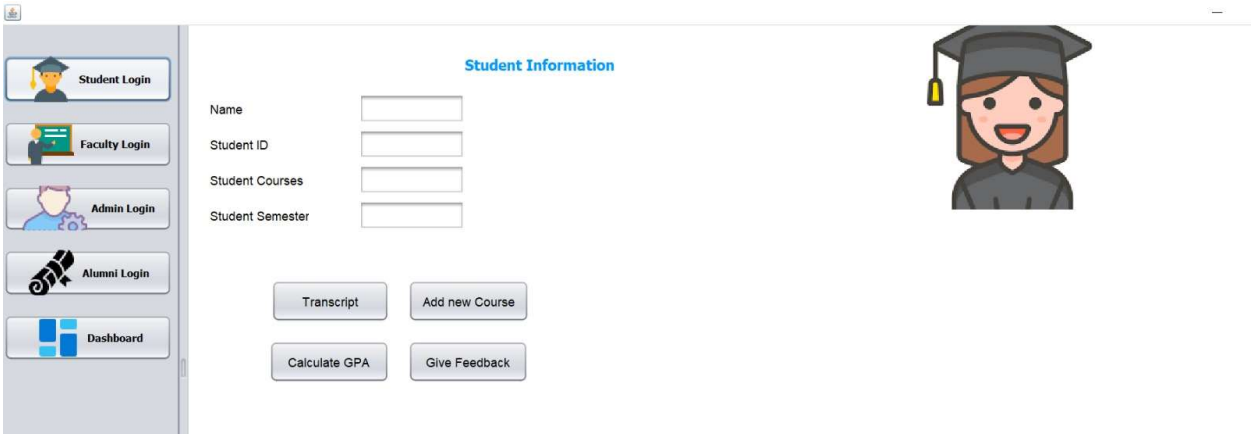

Faculty
Login
Landing Page
Check Rating
Grade Student
Check Courses
LOOP
Login
Verify Login
View
View
Check Feedback
Add Grade
View Grades
Update Grade
Manage Courses
Add Course
Updated list
Manage Courses
View Course
View List

**Screenshots of our application:**

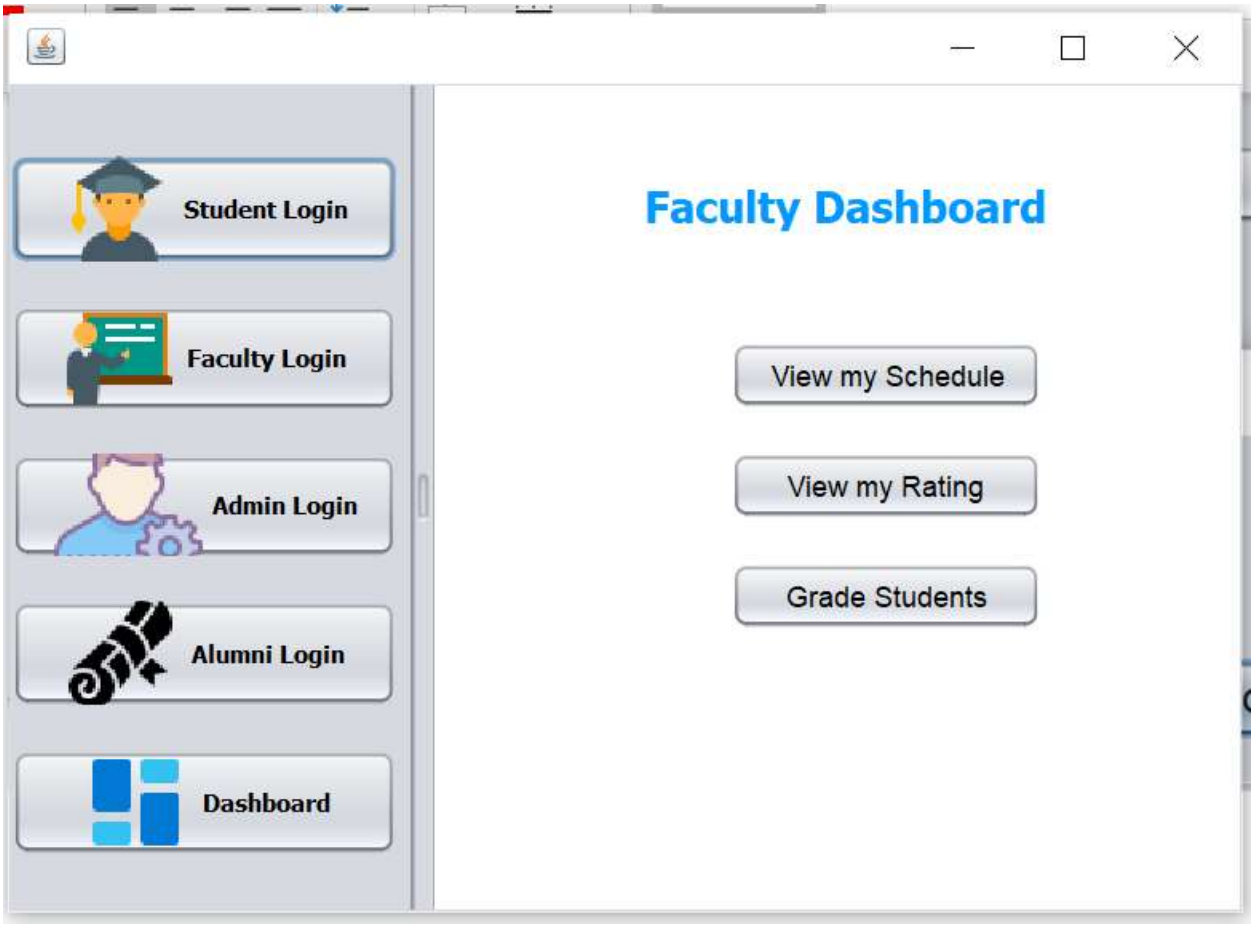
1. **Student Login Page:**



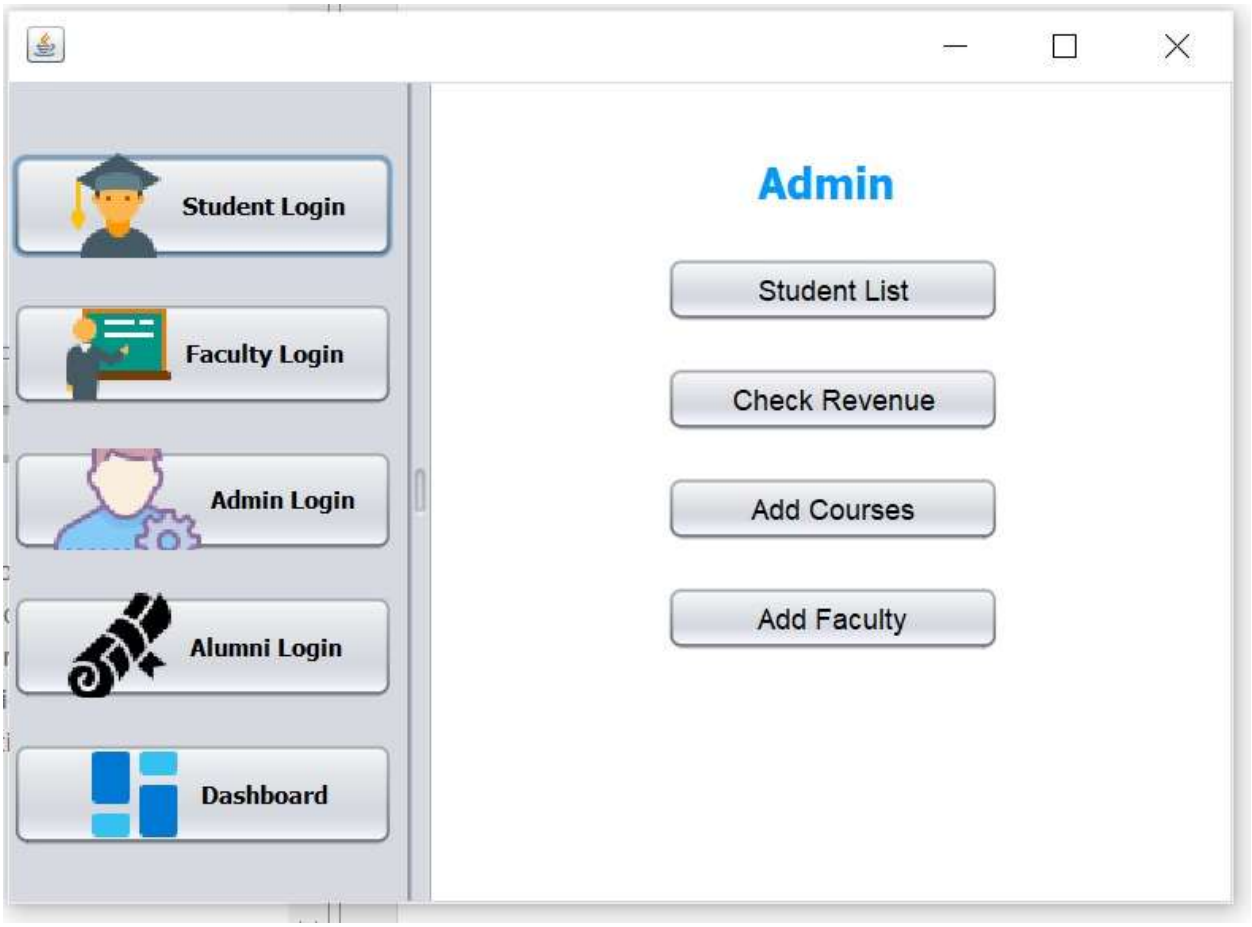

2. **Student Landing Page:**



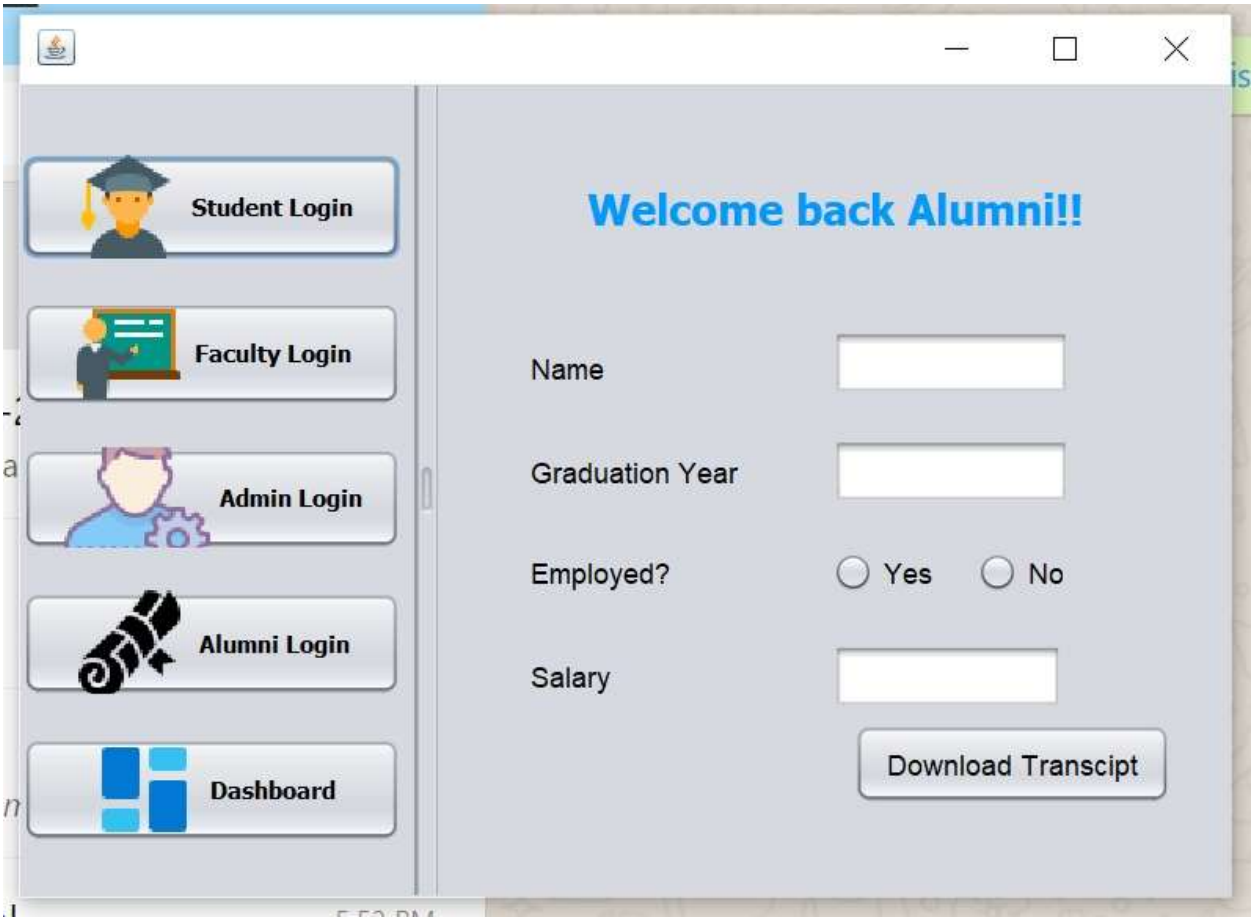
3. **Faculty Landing Page:**



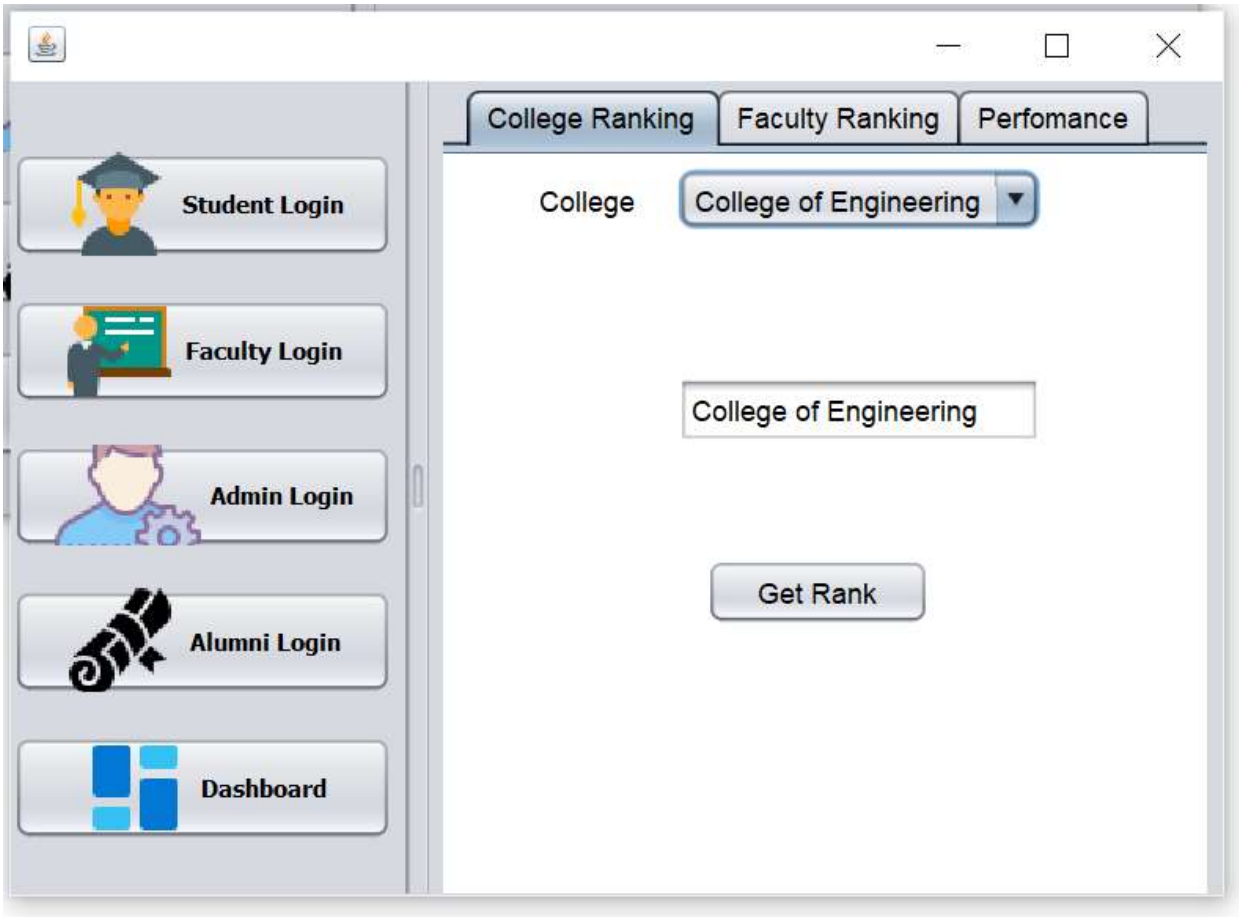
4. **Admin Landing:**



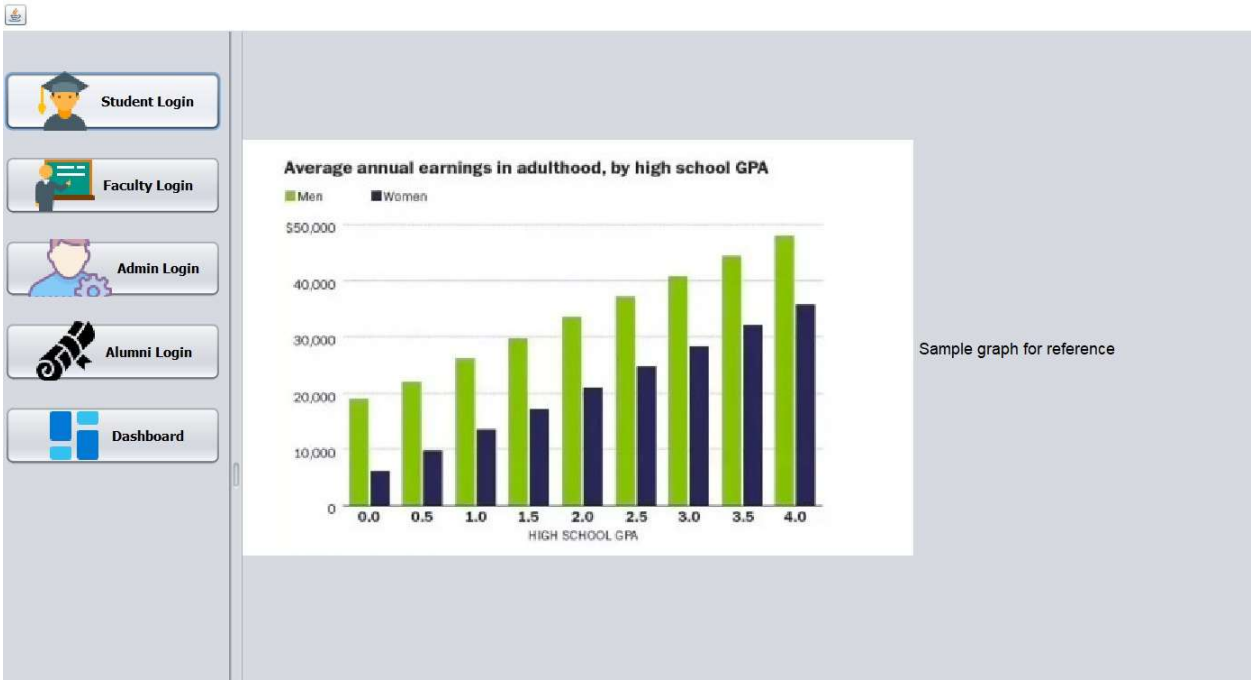
5. **Alumni Landing Page:**



6. **Dashboard Options**



## 7. Reports for reference:




Sample graph for reference