



Introduction

The Academic Resource Management System is a website that helps students manage and find study materials easily. Students can share, sell, or donate books, lab kits, notes, and question papers, saving time and money while making resources easy to get.

Objective

- To create a simple and accessible platform for BAUET students]
- To enable students to buy, sell, or donate academic materials.
- To reduce waste and promote resource sharing.

Problem Analysis

1. Difficulty in collecting academic resources every semester.
2. Dependence on seniors or library for materials.
3. High cost and time needed to buy new books or instruments.

Feasibility Study

- Technical: Feasible using modern web technologies (HTML, CSS, JavaScript, Firebase).
- Economic:
 - 1) Development cost: BDT 110,000 (Year 1)
 - 2) Maintenance: BDT 40,000/year (from Year 2)
 - 3) Annual savings: 50000 -70000 BDT
- Operational: User-friendly interface; suitable for students
- Scalable: Can easily integrate new features, reports And additional user roles in future updates.

Use Case Diagram

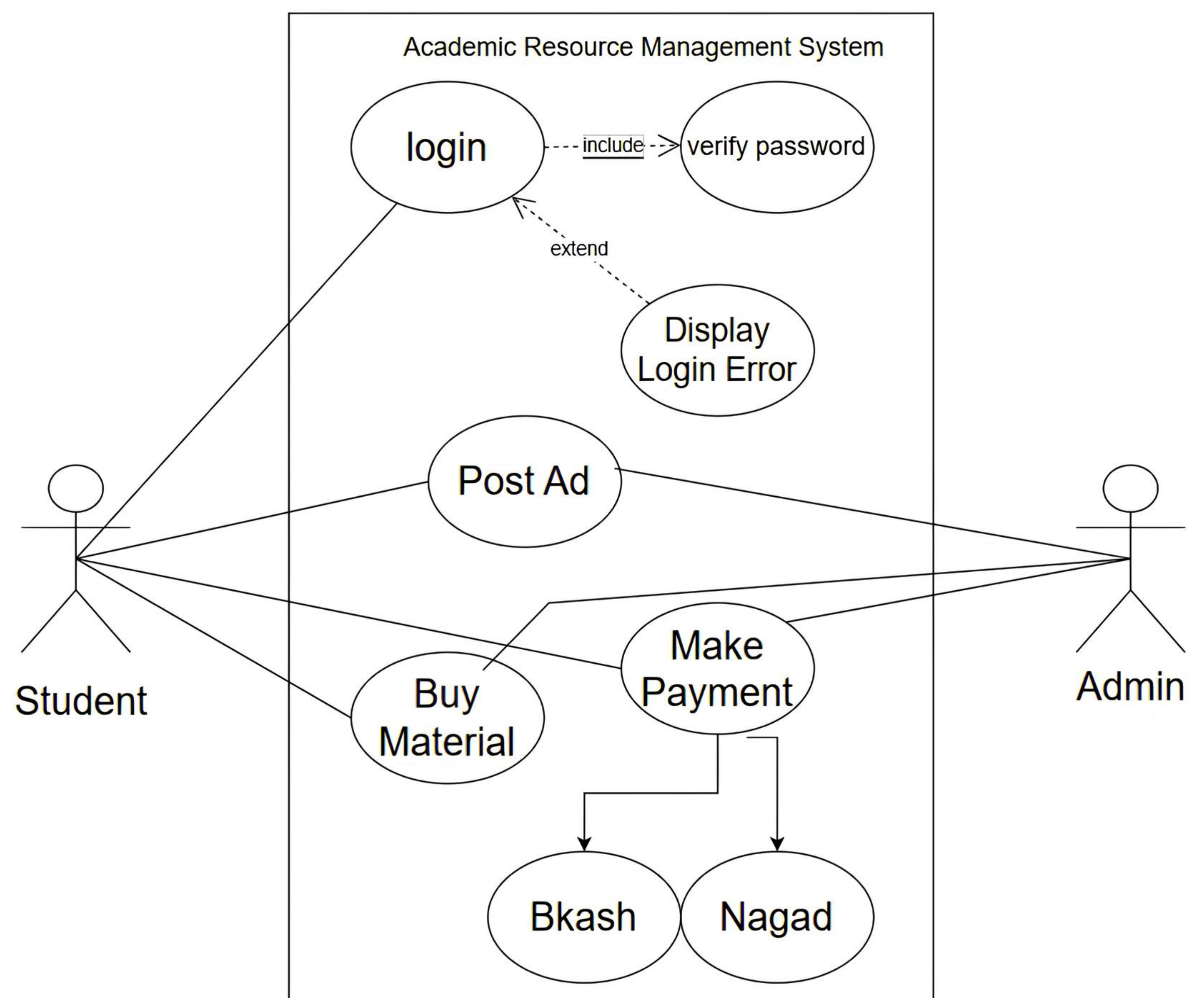


Fig. : Use case diagram

Advantages

- Saves time and money.
- All resources in one place.
- Helps students share and get materials easily.
- Builds a helpful student community.

Limitations

- Needs internet connection.
- Works only if students upload materials.
- Some items may not be available.
- Needs regular updates.

Conclusion

This system makes it easy for students to share and get academic resources. It saves time, reduces cost, and helps everyone study better.