

BAUET Transport Management System

1 Introduction

The BAUET Transport System is a digital platform designed to automate and streamline the university's transport operations. It provides efficient seat booking, driver management, route tracking, and fare collection for students, teachers, and staff.

2 Objectives

Automate transport booking and fare management.
Provide real-time route tracking and scheduling.
Reduce manual work for admin and drivers.

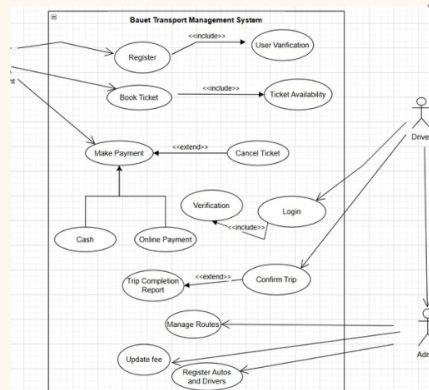
3 Information Gathering

Consulted with Transport Office and drivers for operational data.
Collected feedback from students and faculty about transport issues.
On-site Observation:
Studied existing manual booking and payment system.
Identified bottlenecks such as time delays and communication gaps.

5 Cost analysis

The total cost of the system, including development, setup, and staff training, is estimated at 1,00,000 BDT. The total annual benefit is projected to be around 3,00,000 BDT, considering savings from automated operations, reduced paperwork, and improved resource utilization. The present value of total cost is 85,000 BDT, while the present value of total benefit stands at approximately 2,70,000 BDT.

Use Case Diagram



4 Advantages

Reduces manual booking and fare handling.
Provides real-time updates and schedules.

6 conclusion

The BAUET Transport System is a modern and efficient solution for automating university transportation. It improves management, ensures transparency, and enhances user satisfaction. Future improvements may include mobile app integration, GPS-based tracking, and AI-based route optimization.

7 Limitations

Requires stable internet connection.
Regular maintenance needed for updates.