

**AMERICAN INTERNATIONAL UNIVERSITY–BANGLADESH (AIUB)**

**FACULTY OF SCIENCE & TECHNOLOGY**

**OBJECT ORIENTED PROGRAMMING 2 [P]**

**FALL 23-24**

**Section: P**

**REPORT ON : Metro Rail Ticket Booking System**

**Supervised By**

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**Submitted By**

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**Title: Metro Rail Ticket Booking System.**

**As a user, I want to be able to book train tickets online so that I can efficiently plan my travel.**

**Acceptance Criteria:**

1. **User Authentication:**
   * Users should be able to create an account with a unique username and password.
   * Existing users should be able to log in securely.
2. **Passenger Types:**
   * Users should be able to specify different passenger types, including adults, children, senior citizens, and students, during the booking process.
   * The system should apply appropriate fare adjustments based on the selected passenger types.
3. **Offers and Discounts:**
   * Users should be presented with a range of offers and discounts during the booking process, such as early bird discounts, group discounts, and festival-specific offers.
   * The system should clearly display the details and conditions of each offer.
4. **Search for Trains:**
   * Users should be able to search for trains based on source and destination stations, date, and time.
   * The system should display a list of available trains that match the search criteria.
5. **Select Seats and Class:**
   * Users should be able to select the class (e.g., economy, business) for their journey.
   * Users should be able to choose their preferred seats from the available options.
6. **Review and Confirm Booking:**
   * Users should be able to review their selected journey details, including train, date, time, class, and seats.
   * The system should display the total fare for the selected booking.
   * Users should have the option to confirm and proceed with the booking.
7. **Payment Processing:**
   * Users should be able to make secure online payments using various payment methods (credit/debit cards, digital wallets, etc.).
   * The system should provide confirmation of successful payment.
8. **Generate E-Ticket:**
   * Upon successful booking and payment, the system should generate an electronic ticket (e-ticket) containing all relevant details.
   * Users should have the option to download or receive the e-ticket via email.
9. **View Booking History:**
   * Users should be able to view their booking history, including past and upcoming journeys.
   * The system should display details such as booking date, train details, class, and status.
10. **Cancel Booking:**
    * Users should have the ability to cancel a booked ticket.
    * The system should follow a refund policy and update the booking status accordingly.