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**Project**: Bus Ticket Management System

**Part**: Ticket Reservation, Cancellation

**Ticket Reservation**:

Ticket Reservation is one of the most vital parts of Bus Ticket Management System. We can divide this part into some steps.

1. User Interface:

* User friendly interface for customers to search, select.
* Clear display of available routes, dates and times.
* Integration with payment gateways to facilitate secure online transaction.

2. Booking Management:

* Ability to manage and track bus schedules, routes and seat availability.
* Real time updating of seat availability.
* Booking Confirmation.

3. Payment Integration:

* Integration with secure payment gateways to process online transaction.
* Support various payment method such as debit/credit card, net banking.

4. Admin Panel:

* Administrative interface for managing bus schedules, routes, fares and seat availability.
* Reporting capability to generate sales report.

5. Security and Performance:

* Security login and authentication mechanism
* Encryption of sensitive data
* Regular backups and data recovery.

**Ticket Cancellation**:

After reservation, if you decide that you would not travel, you can cancel the ticket. To cancel the ticket, the admin panel needs to change the database and reallocate the tickets.

1. Cancellation Process and Policies:

* Implementation of cancellation polices defined by the bus operator or ticketing system.
* Handling of refund calculation based on cancellation timeframes and rules.
* Ability to enforce non-refundable tickets or apply partial refund based on specific condition.

1. Database Management:

* Database to store and manage ticket booking information, including cancellation status.
* Integration with payment gateways to handle refund transactions.
* Logging and tracking of canceled tickets for record-keeping purposes.