# Use Cases and CRUD Technique

CRUD Verification for the use cases

|  |  |  |
| --- | --- | --- |
| **Domain Class** | **CRUD Operation** | **Use Case** |
| Customer | C | |  | | --- | | Customer Account Creation |  |  | | --- | |  | |
|  | R | Customer Reservation History Access, Loyalty Program Tracking |
|  | U | Customer Account Modification |
|  | D | Account deletion by admin or on request |
|  |  |  |
| Vehicle | C | Vehicle Fleet Registration |
|  | R | Vehicle Search and Reservation, Reporting |
|  | U | Update status during return, maintenance |
|  | D | Retire a vehicle from fleet |
|  |  |  |
| Reservation | C | Vehicle Search and Reservation |
|  | R | Customer Reservation History Access, Pickup/Return Verification |
|  | U | Modify or extend reservation details |
|  | D | Cancel reservation |
|  |  |  |
| Feedback | C | Feedback Submission |
|  | R | Reporting and Analytics, Admin Review |
|  | U | Allow minor edits if enabled |
|  | D | Admin deletes inappropriate feedback |
|  |  |  |
| Loyalty Points | C | Loyalty Program Tracking |
|  | R | View loyalty points, Reporting and Analytics |
|  | U | Adjust points |
|  | D | Clear points if account is closed |

CRUD Analysis Result: Use Case / Domain Class Matrix

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Use Case vs. Domain Class** | **Customer** | **Vehicle** | **Reservation** | **Feedback** | **Loyalty Points** |
| Customer Account Creation | C/R/U |  |  |  |  |
| Vehicle Search and Reservation | R | |  | | --- | | R |  |  | | --- | |  | | C |  |  |
| Vehicle Pickup and Identity Verification | R | R | R |  |  |
| Vehicle Return and Condition Logging | R | U | R |  |  |
| Feedback Submission | R |  |  | C |  |
| Loyalty Program Tracking | R |  |  |  | C/R/U |
| Reservation History Access | R/U |  | R |  | R |
| Reporting and Analytics Generation | R | R | R | R | R |