RTO Management System

Dhruvilsinh Mahida(202303023)

Prince Kaklotar(202303038)

Avish Jain(202303059)

Functional Requirements:

- 1. User apply for a license; a user can have multiple licenses but a license is associated with a particular user and license cannot exist without User.
- 2. User can apply for permit; a user can have multiple permits but a permit is assigned to a single user with participation constraint toward permit.
- 3. If a vehicle needs to be used in whole country it requires a permit and a vehicle can have only one permit associated with it like wise for the permit.
- 4. A RC book requires a vehicle associated with it, means a RC book cannot exist without a vehicle (complete participation) but a vehicle can exist without RC hence partial participation.
- 5. User apply for Carnet; user can have multiple catnets but one carnet is associated with one use only with participation constraint.
- 6. Vehicle requires a License plate to run on roads; a license plate exist when it is associated with a particular vehicle
- 7. A vehicle requires a carnet to be used on international roads; a vehicle can have only one carnet associated with it and same goes for carnet also with participation constraint that the carnet never exists without a vehicle.
- 8. Vehicle requires the insurance; a vehicle is one to one associated with the insurance but insurance cannot exist without the vehicle.
- 9. An Employee works on a particular RTO Branch; employee works on single branch but branch can have multiple employees with participation constraint that the employee cannot without a RTO Branch.
- 10. A user requires RC in his name as proof of ownership of vehicle; A user can have multiple RC books but a particular RC book is associated with only one user and also cannot exist without the user.
- 11. Vehicle type should be mentioned on license; license can have multiple vehicle type associated with it but vehicle class can be associated with multiple licenses
- 12. RTO branch maintains user details; RTO branch can maintain details of multiple users and user can be associated with multiple RTO branches.
- 13. A RTO branch issues license; RTO branch can issue multiple license but license has only one RTO branch associated with it.
- 14. A RTO branch issues RC; RTO branch can issue multiple RCs but RC has only one RTO branch associated with it.

- 15. A RTO branch issues permit; RTO branch can issue multiple permit but permit has only one RTO branch associated with it.
- 16. A RTO branch issues carnet; RTO branch can issue multiple carnet but carnet has only one RTO branch associated with it.
- 17. A RTO branch issues international driving license; RTO branch can issue multiple international driving license but international driving license has only one RTO branch associated with it.
- 18. An employee belongs to department; department can have multiple employees but an employee belongs to only one department. An employee cannot exist in RTO without department.
- 19. An employee verifies details of license before issuing it; an employee can verify multiple licenses but one license is checked by one employee only.
- 20. An employee verifies details of RC before issuing it; an employee can verify multiple RCs but one RC is checked by one employee only.
- 21. An employee verifies details of permit before issuing it; an employee can verify multiple permits but one permit is checked by one employee only.
- 22. An employee verifies details of carnet before issuing it; an employee can verify multiple carnets but one carnet is checked by one employee only.