

VEHICLE/DRIVER MANAGEMENT SYSTEM



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1 Introduction

Company: Inimegpac inc rents vehicles along with drivers

Target is to create a Vehicle and Driver management system, to manage vehicles, drivers and drivers access rights to a vehicles.

2 ELEMENT DEFINITIONS

2.1 Vehicle Defintion:

Fields = VehicleId, brand, model, color

2.1.1 SAMPLE DATA:

- v00001, Maruti, Dzire, blue
- v00002, Honda, City, green
- v00003, Maruti, Dzire, red
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2.2 Driver definition:

Fields = driverId, type, firstname, lastname, phoneNumber, email, password, joining-Date, admin

Note: Some drivers also perform the role of system administrator identified by the Boolean field ADMIN

2.2.1 SAMPLE DATA

- D0001, Raj, Patel, 999999999, raj.patel@inimegpac.com, password1, 10/10/2010, Y
- D0002, John, Smith, 8999999999, john.smith@inimegpac.com, password2, 10/10/2010, N
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Note: Raj is an administrator

2.3 Driver-vehicle association Definition (Access):

Fields: vehicleId, driverId

2.3.1 RULE:

- Associates the driver and vehicle.
- Driver:vehicle is a n:n relationship, means
 1 vehicle can be accessed by multiple drivers and 1 driver can access multiple cars

2.3.2 Sample Data:

- v00001, d0001
- v00001, d0002
- v00002, d0003
-



REQUIREMENTS:

- 1) Drivers should be able to login into the system.
- 2) Admin should be able to add, get, and update vehicle info . (only color can be updated)
- 3) Admin should be able to add, get, and update driver info
- 4) Admin should be able to associate a driver and a vehicle
- 5) NonAdmins should be allowed to update their own data (only phone number)
- 6) Negative flows should be reflected with appropriate message to the user on the screen

3 TASKS:

- Create a design document with the following:
 - Show components (high level) including screen components, doesn't have to be an actual browser window
 - o APIs: showing the input and output data. Exchange Format will be JSON.
 - o Class diagrams and sequence flow
 - o Unit Test cases
- Development (Coding + Unit Test)
- Testing
- Demo

4 TECHNOLOGIES

- 1. Front End: (Struts or Spring MVC), Browser(your choice)
- 2. BackEnd: AppServer (your choice), Spring, Hibernate, DB (your choice)
- 3. Eclipse, JDK-8

5 Dates and deliverables:

Completion: 14th Aug