**CRC Cards for GangOfFour Application**

Template of CRC Card:

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| Class Name | |
| Responsibilities | Collaborators |

ClassName: AppController

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| AppController | |
| * To get all the user details * To approve the user once he attempts to Login * To retrieve, save, edit and delete all the vehicle information when ever admin wants to add a new vehicle or delete an existing one. * To add, remove or edit any new rental application. * To retrieve all vehicles available on the system for rent. | * Userdetails * Vehicledetails * Reservation * AdminDetails * AddressDetails * CreditCard(Payment) Details * LicenseDetails |

ClassName: LoginController

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| LoginController | |
| * Can register the user with the system using his/her email id or password. * Can register the admin with the system using his/her email id or password. * Enable login for the user after he creates an account with the application. * Enable login for the admin after he created an account with the application. | * UserDetails * AdminDetails * AddressDetails * CreditCard(Payment) Details * LicenseDetails |

ClassName: UserController

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| UserController | |
| * User can retrieve all the available Vehicle types available for rent. * User can retrieve all the rental locations available for rent. * User can get his own details to edit/modify any details. * User can deactivate his account from the system. * He can retrieve his history of all reservations he made including those that are currently active. * User can reserve a vehicle (or) make a booking. * User can cancel a vehicle (or) cancel a booking. | * Reservation * AppController * UserDetails * AddressDetails * CreditCard(Payment) Details * AddressDetails |

ClassName: Reservation

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| Reservation | |
| * Make Reservation for the user * Generate a reservation ID for the user. * Display the reservation status to the user. * Estimate the final charges of a booking. * Calculate the late fees for any cancellation of reservation * Generate the final charges and display to the user. |  |

ClassName: User details

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| User Details | |
| * Store following details of the user * Email of the user * Password * First Name of User * Last Name of User * Age of the User * Address of User * Card details(if any) * License details of User |  |

ClassName: VehicleDetails

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| VehicleDetails | |
| * Set a Vehicle Id for each vehicle * Set a vehicle Type – SUV, Sedan, etc * Store vehicles details like model, make, year of manufacturing, current mileage,etc. * Also store the vehicle’s condition and any other special status. |  |

ClassName: CreditCard(Payment) Details

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| CreditCard(Payment) Details | |
| * Store attributes of the Card of the registered user like: * Card Number * Date of issue * Expiry Date * Name of the Card Holder * CVV |  |

ClassName: AdminDetails

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| AdminDetails | |
| * Contains Email Id of the Admin/Employee * Password * First Name of the Admin/Employee * Last Name of the Admin/Employee |  |

ClassName: LicenseDetails

|  |  |
| --- | --- |
| LicenseDetails | |
| * Contain License ID of the user * Contain expiry date of the license * Contain license type of each user * Contain state Of Issue of each user |  |

ClassName: AddressDetails

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| --- | --- |
| AddressDetails | |
| * Contain Street Number * Contain City * Contain State * Contain ZipCode |  |

Class Name: App(application main class)

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| --- | --- |
| App | |
| * contains main() | * Appcontroller * LoginController * UserContoller |