**VehicleRentingSystem**

**Nonfunctional Requirements:**

1. The search function in the system must be display a result at most 30 seconds.
2. The search panel on the main page of the website must be auto-scaled for different types of resolutions.
3. In the search results of the Vehicles, at most 10 cars must be displayed on one page.
4. VehicleRentingSystem must be written in Java by using JavaServer Faces library.
5. VehicleRentingSystem must support the .pdf and .word document types.
6. VehicleRentingSystem must support the .jpg and .png image types.
7. A person which is never use any vehicle renting system before, must be able to rent a vehicle from VehicleRentingSystem in 15 minutes.
8. VehicleRentingSystem must send e-mails to the users in 1 minutes after a user completed a renting.
9. A searching panel to list avaliable vehicles for renting must be presented only on the main page of the website.
10. The VehicleRentingSystem must prevent to rent the Vehicles with the “damaged” physical status.

**Functional Requirements:**

1. A User can list avaliable vehicles by providing receiving date, receiving office, returning date and returning office.
2. A RegisteredUser can rent vehicles by providing his/her billing information and personal information.
3. A RegisteredUser can display the information of the vehichles that she/he rented.
4. A RegisteredUser can extend the date of the his or her rents.
5. A RegisteredUser can change the returning Office of a current renting.
6. An Administrator can add new Offices to system and remove Offices from the system.
7. An Administrator can update the Offices in the system.
8. An Administrator an add new Vehicles to system and remove Vehicles from the system.
9. An Administrator can update the Vehicles in the system.
10. A RegisteredUser can change his/her personal information in the system which are name, surname, phone, e-mail, birthdate, gender, driver’s licence information, address, city and country.
11. A Visitor can register the system through providing his/her name, surname, username, e-mail and password.
12. A SystemUser can enter the system by providing his/her username and password.
13. A OfficeUser can view and update the rentings of the Users.
14. A RegisteredUser can use discounts when rent a vehicle.
15. A User can filter the search results of the Vehicles in terms of classes, gear types and fuel types after done a search for a specific instance.
16. A User can change the receiving date, receiving office, returning date and returning office of the search after completed a search for a specific instance.
17. An Administrator can update the OfficeUsers in the system.
18. \*A SystemUser can change his/her password in the system.
19. An Administrator can add OfficeUsers to the system and remove OfficeUsers from the system.
20. There must be six type of users in the system which are User, Visitor, SystemUser, RegisteredUser, OfficeUser and Administrator.
21. RegisteredUser, OfficeUser and Administrator are SystemUsers.
22. SystemUsers and Visitors are Users.
23. In the system, there must be Offices denoted as their name, address, e-mail, phone, fax, working-hours, city and country.
24. In the system, there must be Vehicles denoted as their model number, plate number, physical status, renting status, daily price, class, gear type, fuel type, number of seats, avaliable luggage, minimum driver’s age, minimum years of license, brake system, avaliability of airbags, avaliability of air conditioning and the name of the current Office.
25. In the system, there must be RegisteredUsers denoted as their name, surname,username, password, birthdate, phone, e-mail, gender, address, city, country and driver-license information.
26. In the system, there must be Administrators denoted as their name, username and e-mail.
27. In the system, there must be OfficeUsers denoted as their name, surname, birthdate, phone,office, e-mail, username, password, gender, address, city and country.
28. Offices and Vehicles of the VehicleRentingSystem must be displayed on the website to all type of users. Offices must be categorized as their countries and cities, in the other hand, the Vehicles must be categorized as their classess.