# Vehicle Buying and Selling System

## 1.0 Main Actors

* Guest
* Registered User
* Admin

## 2.0 Main use cases

\* Admin can do all that Registered users can do

\* Registered users can do all that Guests can do except for Registering

### 2.1 Guest

* View Latest Vehicle Ads
* Search for Vehicles
  + By Manufacturer/Make
    - Toyota
    - Mercedes…etc
  + Model
    - Yaris
    - Camry
    - I5
    - 520 D…etc
  + Vehicle Type
    - Any
    - Car
    - Van
    - SUV / Jeep …etc
  + Vehicle Condition
    - Antique
    - Brand New
    - Unregistered (Used)
    - Registered (Used)
  + Price Range
    - Min Price 🡪 Max Price
  + City
    - Colombo
    - Kandy
* View Vehicle Add

### 2.2 Registered User

* Login
* All Guest can do
* Message Seller
* Make an Offer
* Report a problem with a add
* Message Admin
* Sell Vehicle
  + Post Ads
  + Edit Ads
  + Upgrade to premium add (adds come to the top of the current adds list with a special Badge)
  + Remove add – once it is sold

### 2.3 Admin

* Admin Dashboard
  + Approve Adds
  + View reported problems and respond
  + Disable Adds
  + Disable Users

## 3.0 Technology Stack

|  |  |  |
| --- | --- | --- |
| **Front End Web** | **API** | **Database** |
| * Angular | * ASP.NET Core * EF Core * Code First | * MS SQL |

## 4.0 Deployment

|  |  |
| --- | --- |
| **Component** | **Deployment** |
| Angular App | Azure Web App - static |
| API | Azure Web App – Deployed from Visual Studio |
| DB | Azure SQL DB |