This document shows sample projects for the **teamwork assignment** for Telerik Academy students **JavaScript Frameworks** course.

# Sample Projects

## Car Dealership System

### Description

Develop an application that makes the rental of cars easy and joyful.

The application consists of two parts – client application and admin application

### Client Application

The client application allows the users to register and login in the application. After registration users can view and rent cars, that are free at the moment. If a car is already rented, it cannot be rented by another user while the first does not return it. Registered users can view all dealership store near their position.

When a user registers an account in the system, he immediately receives a bonus of 100 lv in his account. A user can always request to withdraw cash from his account. Yet the user can always have at least 100lv in his account after a withdraw.

Users can view all stores near them (by a geolocation)

Each car costs a certain amount of money per day. A user can rent as many cars as he wants, but money will be taken from his account for every car for every day.

Users can request to send their own car into a dealership. If the administrators approve the request, the owner of the car gets a given amount of money for every day his car is in the dealership.

### Admin Application

The administrators (admin users) can approve the following requests from clients (regular users):

* When a client wants to withdraw cash from their account
* When a client offers their car to a dealership

## My newsfeed application

### Description

Develop an application that shows the newsfeed of the users.

The application consists of two parts – client application and admin application

### Client Application

The client application allows the users to register and login in the application. After registration users can befriend other clients. When two clients are friends, they can see each other's wall. Users can post text, images, videos and audio. Users can put their friends in groups. When a user creates a post on their wall, they can make the post public (visible to everybody, even not registered users), protected (visible to all registered users) or private (visible only to a group of friends)

### Admin Application

The administrators of this application are the users themselves. Each user can

* Create a group of friends and label it
* Create a post and restrict it to be public, protected or private
* Delete groups and posts
* Approve/revoke friendship

## Heroes of Web and JavaScript

### Description

Develop a game application, playable by ultra geeks.

The application consists of two parts – client application and admin application

### Client Application

The client application allows the users to register and login in the application. After registration can play games against other players. The games can be played in turns by two or more players.

Players have a nickname and a Web master level and they can collect codes of JavaScript. JavaScript codes have exceptions in them, and exceptions are used to fight other players. JavaScript codes with less exceptions give more web master experience, yet they don't give you exceptions to fight others.

Games are played as follows:

* The players not in turn wait for the player in turn
* The player in turn sees the map of the game
  + S/he can walk around the map
  + S/he can collects JavaScript codes (found on the map)
  + Each time a js code is collected, the player gains Web experience
  + Each played has a certain amount of energy, that is depleted when walking
  + Redbull gives the player wings, and he can walk more distance for a certain amount of time
  + Players can attack other players
    - The damage of a player's attack is calculated by the formula (Web master level \* exceptions quality)
* When the power of the player is depleted, s/he gives the turn to the next player
* Exceptions have quality
  + Exceptions with message like "An error occurred" or "Something is wrong" have low quality and therefor provide less damage
  + Exceptions with message like "This is parse error" or "Cannot call function XXX on a null or undefined" are with high quality are provide more damage

### Admin Application

The administrators of this application are the users themselves. Each user can

* Create a custom map
* Add custom JavaScript codes and their exceptions