# Exercises: Forms, Validation, Security

Problems for exercises and homework for the [“PHP MVC Frameworks - Symfony” course @ SoftUni](https://softuni.bg/courses/php-mvc-frameworks).

## Camera Bazaar

You need to create an **online store** for shop selling digital cameras. All visitors of the store should have access to the **list of cameras** and could see their **details**. All visitors could **register** into the store. The registered users can **add, edit** and **delete** cameras. Each user can **modify** only those cameras that are **added by him**.

The requirements for the **models** are:

* **User**
  + **Username** – must be between **4** and **20** symbols long and must contain **only letters**. Casing **does not** matter.
  + **Email** – must be a **valid email address**
  + **Password** – must be at least **3 symbols** long and can contain only **lowercase letters** and **digits**
  + **Phone** – must start with “**+**” sign followed by **10 to 12 digits**
* **Camera**
  + **Make** – makes can be only **Canon**, **Nikon**, **Penta** or **Sony**
  + **Model** – can contain **only uppercase letters**, **digits** and **dash** (“**-**“). Cannot be empty
  + **Price** – floating point number with precision to **2 digits** **after** floating point
  + **Quantity** – integer number in range **0 – 100**
  + **Min shutter speed** – integer number in range **1 to 30** (seconds)
  + **Max shutter speed** – integer number in range **2000 to 8000** (fraction of a second)
  + **Min ISO** – can be **50 or 100**
  + **Max ISO** – integer number in range **200 to 409600** and must be **dividable by 100**
  + **Is Full Frame** – **yes** or **no**
  + **Video Resolution** – described with text **no longer than 15 symbols**
  + **Light Metering** – can be **spot**, **center-weighted** and **evaluative**
  + **Description** – details for the camera with no more than **6000 symbols**
  + **Image URL** – must start with **http://** or **https://**

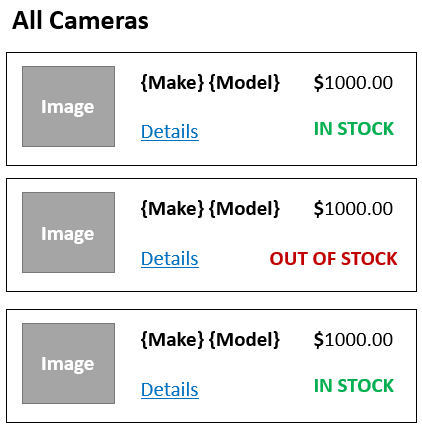
In each form that **add** or **edit data** if there is a mistake anywhere **fill** the **form** fields from the model, **notify the user** and provide him information **what exactly is the mistake** and why some data cannot be accepted.

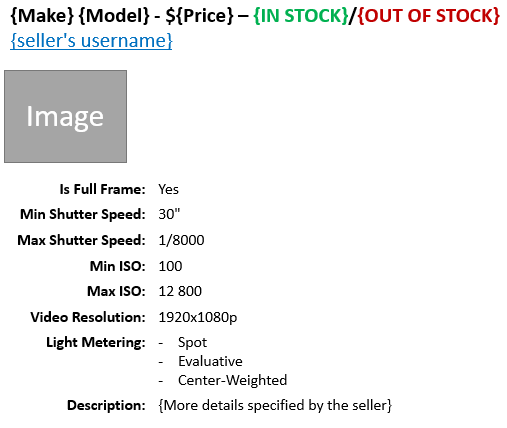
Each **user** should have **profile page** that contains information about **him, list of all his cameras** and summarized count of in stock or out of stock cameras. Profile pages should be accessible **only by registered users**. Each user can **change** his **email,** **phone** or **password**.

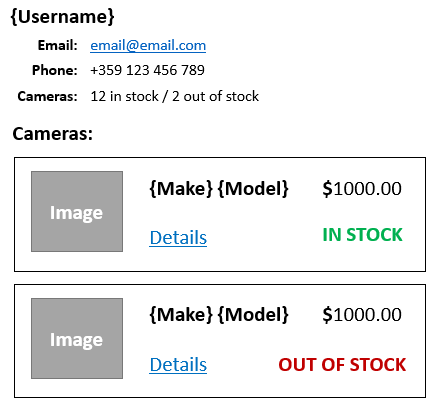
Each **camera** should have page where **all details** about it can be seen as well as **link** to the profile to the user who added it.

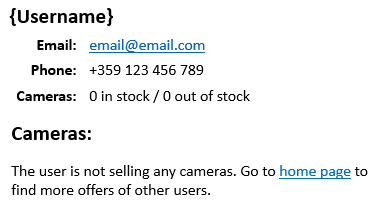
On the **list of cameras**, the visitors should be able to see clearly whether the **camera is** **in stock or not**. For example, if it in stock add green text “IN STOCK” otherwise red text “OUT OF STOCK”.

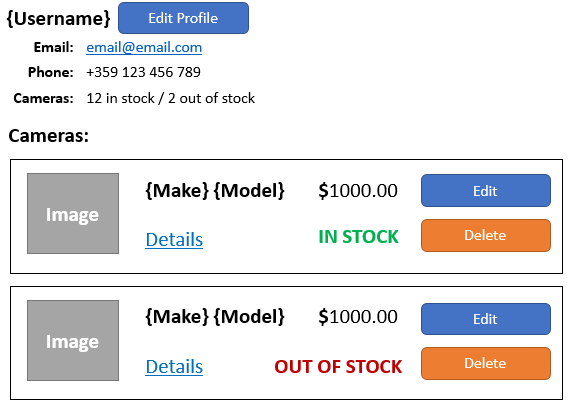


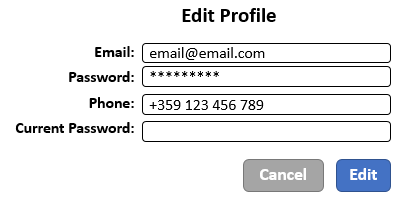












## Camera Bazaar Roles

Add user roles to the Camera Bazaar application. There are **three** main roles:

* **Guests** (unregistered users) – can view all offers
* **Logged in users** – can see profiles of other users
* **Administrators** – can restrict users from posting new offers

Create at least two users in each role. You don’t need to create a special role for guests.