**Fortune Cookies**

JavaScript Applications Exam, 10 September 2015

Implement a SPA application for fortune cookies.

**Application description**

The application must provide the following functionality

* **Users** can **Register**, **Login** and **Logout** in the application
  + *Users provide username and password*
* **Logged-in users** can:
  + **Share** a new fortune cookie
    - Providing text and category
  + **Re-share** an existing fortune cookie
    - This can be either:
      * A fortune cookie, shared by this user
      * A fortune cookie, shared by other user
  + **Like** or **dislike** a fortune cookie
  + **Get** their hourly fortune cookie
    - A random cookie from all shared cookies
    - This cookie is changed every hour
      * i.e. if the user asks for their fortune cookie at 11:30 and then again at 11:45, their fortune cookie will be the same
      * or if the user asks for their fortune cookie at 11:30 and then again at 12:00, the two fortune cookies may be different
        + It depends on the total count of fortune cookies
* **All users** (even not logged in) can **see** fortune cookies, that are shared by any user
* **Cookies** can be:
  + Sorted by likes or shareDate
  + Filtered by a single category
    - i.e. show only the fortune cookies in a given category

**Application routes**

Implement at least the following routes in your app:

* #/
* Redirects to #/home
* #/home
* Shows all fortune cookies
  + Available to all users, logged-in or not
  + Provides a way to sort the cookies by likes or shareDate
  + Provides a way to filter fortune cookies by category
* #/home?category=CCCC
* Shows only the fortune cookies in category **CCC**
* #/my-cookie
* Shows the current hourly fortune cookie for the logged-in user

**Application requirements**

**Mandatory** provide a good **User Experience(UX)** \* No need to be pretty, just usable \* Please do not make your colleagues wonder where to click, to share a fortune cookie

**Mandatory** use extensively the following libraries:

* jQuery
* For AJAX
* For DOM manipulation
* Handlebars.js
* For view templates

**Do NOT** use any of the following: \* AngularJS \* KendoUI framework \* Data-binding, routing, ViewModels, etc... \* Durandal \* Backbone.js \* Ember.js \* Batman.js

You can use libraries for: \* Notifications \* toastr or any other \* UI components \* jQueryUI, KendoUI UI components, Twitter Bootstrap \* Utils frameworks: \* Moment, Underscore/Lodash \* Libs for encryption \* etc... \* Routers \* Only Sammy.js is allowed \* Module loading \* System.js, RequireJS or other

**Server routes**

**Users**

* api/users
* GET
  + **Returns** all users
* POST
  + **Registers** a new user
  + Needs **username** and **passHash** to be sent in the body of the request
* api/auth
* PUT
  + **Logs in** an user
  + Needs **username** and **passHash** to be sent in the body of the request
  + If the request is valid returns **username** and **authKey**

**Fortune Cookies**

* api/cookies
* GET
  + **Returns** all shared fortune cookies
* POST
  + **Shares** or **re-shares** a new fortune cookie
  + User must be **logged-in**
  + Needs **text**, **category**, **img** to be sent in the body of the request and the current user's **authKey** as a header with name: x-auth-key
  + img is a string to an online image
  + img is optional and if not sent, a **default batman** image will be provided
* api/cookies/:id
* PUT
  + **Likes** or **dislikes** a fortune cookie
  + Needs type to be sent in the body of the request
  + type can only have values 'like' or 'dislike'

**My Fortune Cookies**

* api/my-cookie
* GET
  + **Returns** the hourly fortune cookie

**Categories**

* api/categories
  + GET
    - **Returns** an array with all categories

**Deliverables**

* **ZIP** all your code, including the server
* Remove only the node\_modules folder
* Send the ZIP file on the page, provided in http://telerikacademy.com

**Constraints and validation**

* **Username**
* A string
* Has length between 6 and 30
* Can contain only Latin letters, digits and the characters '\_' and '.'
* **Fortune Cookie Text**
* A string
* Has length between 6 and 30
* Can contain any characters
* **Fortune Cookie Category**
* A string
* Has length between 6 and 30
* Can contain any characters

* **Fortune Cookie Img**
* A string
* Must be a valid url address