

# Ads – SPA with AngularJS Lab

The **goal of this lab** is to continue the development of the Online Ads AngularJS application: **publish new ad**.

## Problem 7. Publish New Ad

**Step 1.** Add "Publish New Ad" route in **app.js**:

app.js
<pre>\$routeProvider.when('/user/ads/publish', {   templateUrl: 'templates/user/publish-new-ad.html',   controller: 'UserPublishNewAdController' });</pre>

5 score

**Step 2.** Implement **global authorization check** to avoid anonymous site visitors to access user screens:

app.js
<pre>app.run(function (\$rootScope, \$location, authService) {   \$rootScope.\$on('\$locationChangeStart', function (event) {     if (\$location.path().indexOf("/user/") != -1 &amp;&amp; !authService.isLoggedIn()) {       // Authorization check: anonymous site visitors cannot access user routes       \$location.path("/");     }   }); });</pre>

5 score

**Step 3.** Create the "Publish New Ad" form (without the image upload for simplicity):

publish-new-ad.html
<pre>&lt;div class="box"&gt;   &lt;h2&gt;Publish New Ad&lt;/h2&gt;   &lt;p&gt;     &lt;label for="title"&gt;Title:&lt;/label&gt;     &lt;input type="text" id="title" ng-model="adData.title" required /&gt;   &lt;/p&gt;    &lt;!-- TODO: add "text" field --&gt;    &lt;p&gt;     &lt;label for="category"&gt;Category:&lt;/label&gt;     &lt;select id="category" ng-model="adData.categoryId"&gt;       &lt;option value="null"&gt;(None)&lt;/option&gt;       &lt;option ng-repeat="c in categories" value="{{c.id}}"&gt;{{c.name}}&lt;/option&gt;     &lt;/select&gt;   &lt;/p&gt;</pre>

```

<!-- TODO: add "town" drop-down field -->

<p>
  <a ng-click="publishAd(adData)" class="button">Publish</a>
  <a href="#/user/ads" class="button">Cancel</a>
</p>
</div>

```

10 score

**Step 4.** Implement the **UserPublishNewAdController.js**:

#### UserPublishNewAdController.js

```

'use strict';

app.controller('UserPublishNewAdController',
  function ($scope, $location, townsService, categoriesService,
    userService, notifyService) {
    $scope.adData = {townId: null, categoryId: null};
    $scope.categories = categoriesService.getCategories();
    $scope.towns = townsService.getTowns();

    $scope.publishAd = function(adData) {
      userService.createNewAd(adData,
        function success() {
          // TODO: show "success" info message
          $location.path("/user/ads");
        },
        function error(err) {
          // TODO: show error message
        }
      );
    };
  }
);

```

Don't forget to load the **UserPublishNewAdController.js** in your **index.html**.

10 score

**Step 5.** Define a service **userService** that will implement operations for logged in users:

#### userService.js

```

'use strict';

app.factory('userService',
  function ($http, baseServiceUrl, authService) {
    return {
      createNewAd: function (adData, success, error) {
        var request = {
          method: 'POST',
          url: baseServiceUrl + '/api/user/ads',
          headers: authService.getAuthHeaders(),
          data: adData
        };
      }
    };
  }
);

```

```

    };
    $http(request).success(success).error(error);
  },

  getUserAds: function (params, success, error) {
    var request = {
      method: 'GET',
      url: baseServiceUrl + '/api/user/ads',
      headers: authService.getAuthHeaders(),
      params: params
    };
    $http(request).success(success).error(error);
  },

  deactivateAd: function (id, success, error) {
    // TODO
  },

  publishAgainAd: function (id, success, error) {
    // TODO
  }
}
);

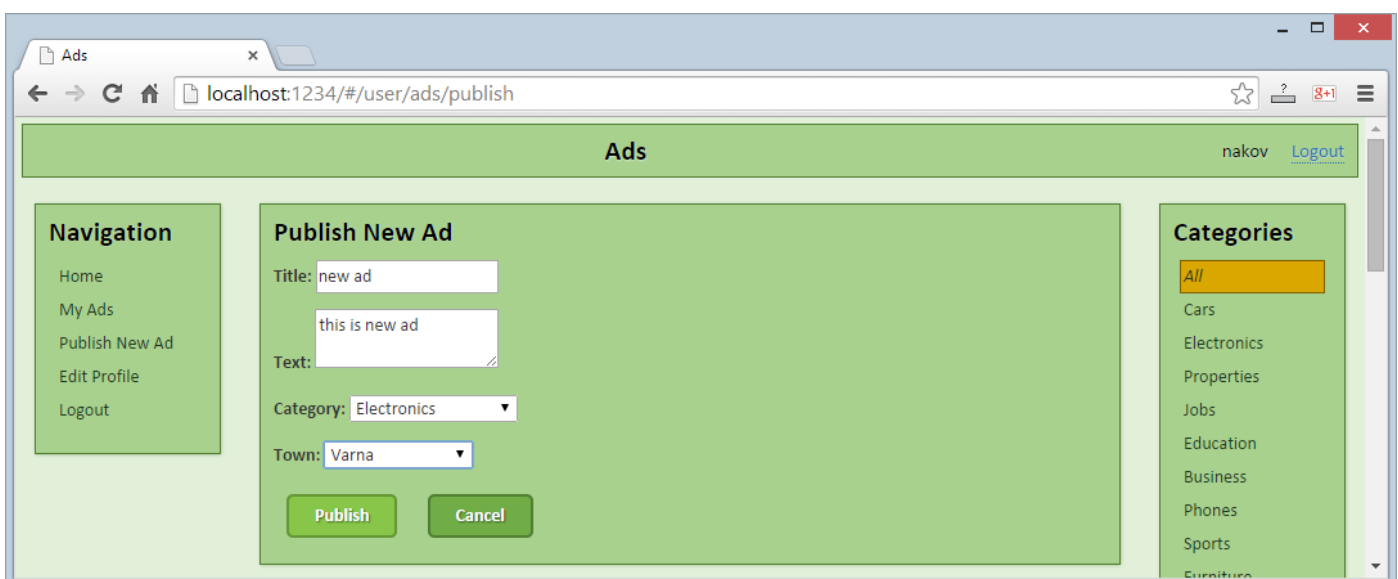
```

Don't forget to load the **userService.js** in your **index.html**.

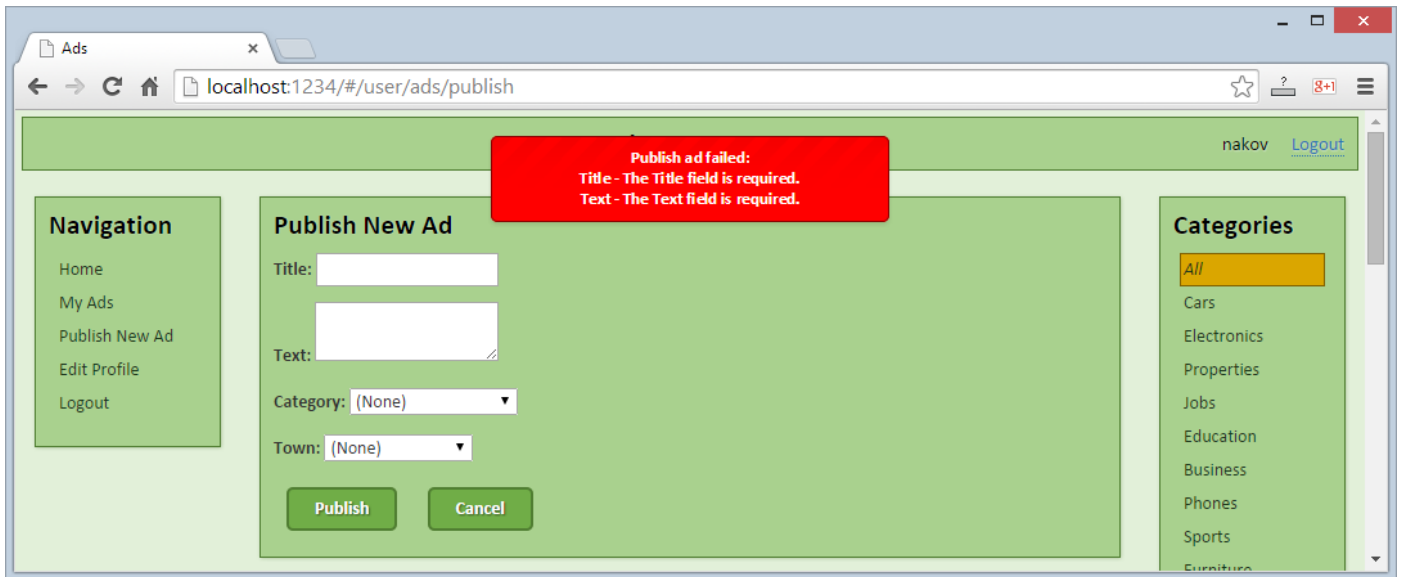
Note that the user service works for logged in users only. It relies on **authService.getAuthHeaders()** function to prepare the bearer authorization headers.

10 score

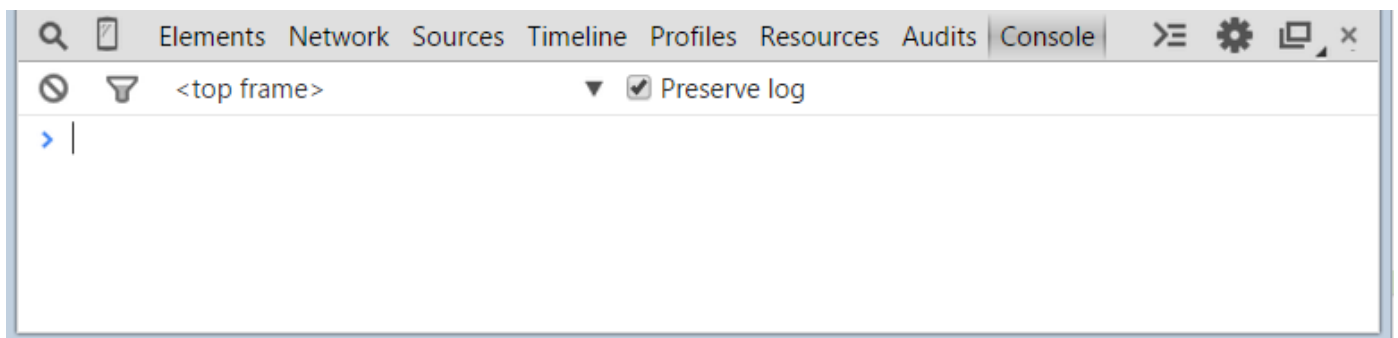
**Step 6.** Test your application to ensure that "Publish Advertisement" functionality works correctly:



- Check also the **incorrect "Publish Ad" functionality**:



- Try to access the **"Publish Ad"** functionality without login (after logout), by typing directly the URL: <http://localhost:1234/#/user/ads/publish>. You should be redirected to the login screen.
- Check for errors at the Web browser's development console:



10 score

**Step 7.** Implement **"Image Upload with Live Preview"** functionality.

First, add the following code in the **"Publish New Ad"** view:

```
publish-new-ad.html

<p>
  <label for="image">Image:</label>
  <input type="file" id="image"
    onchange="angular.element(this).scope().fileSelected(this)" />
  <div class="image-box">
    <p>Image Preview</p>
  </div>
</p>
```

Second, add the following code in the **UserPublishNewAdController**:

```
UserPublishNewAdController.js
```

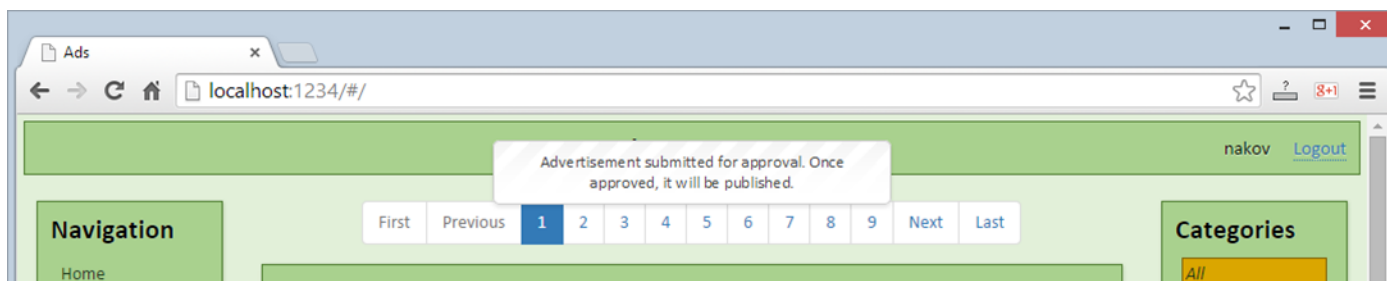
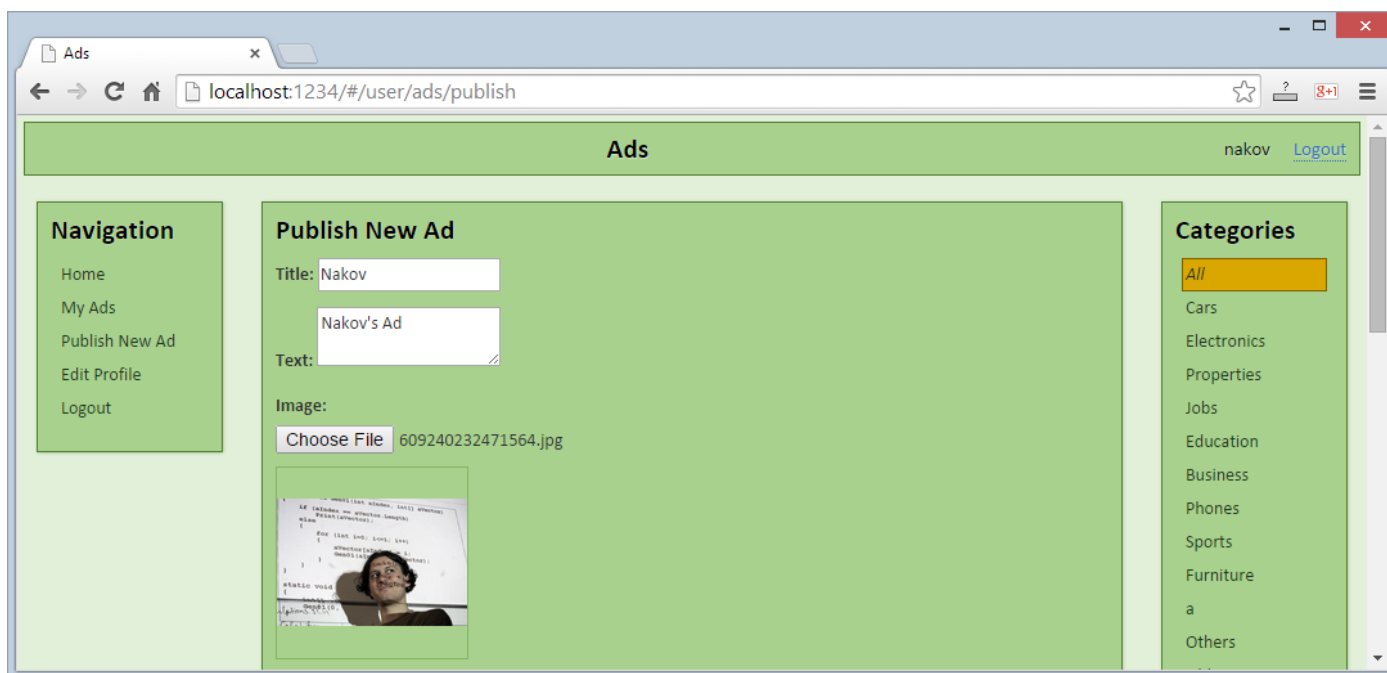
```

$scope.fileSelected = function(fileInputField) {
    delete $scope.adData.imageUrl;
    var file = fileInputField.files[0];
    if (file.type.match(/image\/.*/)) {
        var reader = new FileReader();
        reader.onload = function() {
            $scope.adData.imageUrl = reader.result;
            $(".image-box").html("<img src='" + reader.result + "'>");
        };
        reader.readAsDataURL(file);
    } else {
        $(".image-box").html("<p>File type not supported!</p>");
    }
};

```

10 score

**Step 8.** Test your application to ensure that "Image Upload with Live Preview" functionality works correctly:



5 score