# Exercise: Source Control Systems

# Stage 3, Task 1 – Load Advertisements

**To begin, make sure Stage 2 is fully finished, committed and conflicts are resolved, then you may pull any changes from the master.**

It’s time to add the main functionality to our web application – loading some ads from the server and displaying them to the user. For now, only the administrator can add ads from the backend. Eventually, we’ll add the functionality for users to post their own ads, but in a later task.

At the end of this stage, your files should be identical to the ones in folder **3. Stage 3**

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| **Each task should be assigned to a different team member. Work on tasks 3-1 and 3-2 simultaneously and commit changes to the master in order.** |

Add a new anchor to the <head> element of the document and a new <section> just before the end of the <main> element, before the scripts are executed:

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| index.html |
| *↑*  *Existing code here …*  <**header id="menu" class="menu"**>  <**a href="#" id="linkHome" class="menu-item"** >Home</**a**>  <**a href="#" id="linkLogin" class="menu-item"**>Login</**a**>  <**a href="#" id="linkRegister" class="menu-item"**>Register</**a**>  <**a href="#" id="linkListAds" class="menu-item"**>List Advertisements</**a**>  <**a href="#" id="linkLogout" class="menu-item"**>Logout</**a**>  <**div**></**div**> </**header**>  <**main**>  *↑*  *Existing code here …*  *↓*  <**section id="viewAds" class="viewAds"**>  <**h1 class="titleForm"**>Advertisements</**h1**>  <**div id="ads" class="ads"**>  <**table**>  <**tr**>  <**th**>Title</**th**>  <**th**>Publisher</**th**>  <**th**>Price</**th**>  <**th**>Date Published</**th**>  </**tr**>  <**tr**>  <**td**>Ad title</**td**>  <**td**>Ad author</**td**>  <**td**>Price</**td**>  <**td**>Date published</**td**>  </**tr**>  </**table**>  </**div**>  </**section**>   <**script**>  *startApp*();  </**script**> </**main**>  *Existing code here …*  *↓* |

We’ll add the request to the server and the code required to display a list of advertisements. We’ve also made a change on the fly – we had to change our API keys. The new keys are reflected in the front-end requests, but the back-end is not yet updated – you will have to resolve this conflict when you commit your changes.

Since we’re using the API keys in a few places, it makes sense to move them to a constant somewhere for easier reuse. This change will have to be applied to existing functions.

Modify the **blue** lines and add the **gray** lines:

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| prodavachnik.js |
| **function** *startApp*() {  *showHideMenuLinks*();  *showHomeView*();   *// Bind the navigation menu links* $(**"#linkHome"**).click(*showHomeView*);  $(**"#linkLogin"**).click(*showLoginView*);  $(**"#linkRegister"**).click(*showRegisterView*);  $(**"#linkListAds"**).click(*listAdverts*);  $(**"#linkLogout"**).click(*logoutUser*);   *// Bind the form submit buttons* $(**"#buttonLoginUser"**).click(*loginUser*);  $(**"#buttonRegisterUser"**).click(*registerUser*);   **const** kinveyBaseUrl = **"https://mock.api.com/"**;  **const** kinveyAppKey = **"kid\_rk"**;  **const** kinveyAppSecret = **"736804a668"**;   **function** *showView*(viewName) {  *// Hide all views and show the selected view only* $(**'main > section'**).hide();  $(**'#'** + viewName).show();  }   **function** *showHideMenuLinks*() {  $(**"#linkHome"**).show();  **if** (**sessionStorage**.getItem(**'authToken'**) === **null**) {  *// No logged in user* $(**"#linkLogin"**).show();  $(**"#linkRegister"**).show();  $(**"#linkListAds"**).hide();  $(**"#linkLogout"**).hide();  } **else** {  *// We have logged in user* $(**"#linkLogin"**).hide();  $(**"#linkRegister"**).hide();  $(**"#linkListAds"**).show();  $(**"#linkLogout"**).show();  }  }   **function** *showHomeView*() {  *showView*(**'viewHome'**);  }   **function** *showLoginView*() {  *showView*(**'viewLogin'**);  $(**'#formLogin'**).trigger(**'reset'**);  }   **function** *showRegisterView*() {  $(**'#formRegister'**).trigger(**'reset'**);  *showView*(**'viewRegister'**);  }   *// user/login* **function** *loginUser*() {  **const** kinveyLoginUrl = kinveyBaseUrl + **"user/"** + kinveyAppKey + **"/login"**;  **const** kinveyAuthHeaders = {  **'Authorization'**: **"Basic "** + btoa(kinveyAppKey + **":"** + kinveyAppSecret),  };  **let** userData = {  **username**: $(**'#formLogin input[name=username]'**).val(),  **password**: $(**'#formLogin input[name=passwd]'**).val()  };   $.ajax({  **method**: **"POST"**,  **url**: kinveyLoginUrl,  **headers**: kinveyAuthHeaders,  **data**: userData,  success: *loginSuccess* });   **function** *loginSuccess*(userInfo) {  *saveAuthInSession*(userInfo);  *showHideMenuLinks*();  *listAdverts*();  }  }   **function** *saveAuthInSession*(userInfo) {  **let** userAuth = userInfo.\_kmd.authtoken;  **sessionStorage**.setItem(**'authToken'**, userAuth);  **let** userId = userInfo.\_id;  **sessionStorage**.setItem(**'userId'**, userId);  }   *// user/register* **function** *registerUser*() {  **const** kinveyRegisterUrl = kinveyBaseUrl + **"user/"** + kinveyAppKey + **"/"**;  **const** kinveyAuthHeaders = {  **'Authorization'**: **"Basic "** + btoa(kinveyAppKey + **":"** + kinveyAppSecret),  };   **let** userData = {  **username**: $(**'#formRegister input[name=username]'**).val(),  **password**: $(**'#formRegister input[name=passwd]'**).val()  };   $.ajax({  **method**: **"POST"**,  **url**: kinveyRegisterUrl,  **headers**: kinveyAuthHeaders,  **data**: userData,  success: *registerSuccess* });   **function** *registerSuccess*(userInfo) {  **console**.log(userInfo);  *saveAuthInSession*(userInfo);  *showHideMenuLinks*();  *listAdverts*();  }  }   *// user/logout* **function** *logoutUser*() {  **sessionStorage**.clear();  $(**'#loggedInUser'**).text(**""**);  *showHideMenuLinks*();  *showHomeView*();  }   *// advertisement/all* **function** *listAdverts*() {  $(**'#ads'**).empty();  *showView*(**'viewAds'**);   **const** kinveyAdvertsUrl = kinveyBaseUrl + **"appdata/"** + kinveyAppKey + **"/adverts"**;  **const** kinveyAuthHeaders = {  **'Authorization'**: **"Kinvey "** + **sessionStorage**.getItem(**'authToken'**),  };  $.ajax({  **method**: **"GET"**,  **url**: kinveyAdvertsUrl,  **headers**: kinveyAuthHeaders,  success: *loadAdvertsSuccess* });   **function** *loadAdvertsSuccess*(adverts) {  **if** (adverts.length === 0) {  $(**'#ads'**).text(**'No advertisements available.'**);  } **else** {  **let** advertsTable = $(**'<table>'**)  .append($(**'<tr>'**).append(  **'<th>Title</th>'**,  **'<th>Publisher</th>'**,  **'<th>Date Published</th>'**,  **'<th>Price</th>'**)  );   **for** (**let** advert **of** adverts) {  advertsTable.append($(**'<tr>'**).append(  $(**'<td>'**).text(advert.title),  $(**'<td>'**).text(advert.**publisher**),  $(**'<td>'**).text(advert.**datePublished**),  $(**'<td>'**).text(advert.**price**)  ));  }   $(**'#ads'**).append(advertsTable);  }  }  } } |

Change the expected API keys in the back-end script on lines 32 & 54:

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| api.js |
| *↑*  *Existing code here …*  *// User login* $.mockjax(**function** (requestSettings) {  **if** (requestSettings.url === **"https://mock.api.com/user/kid\_rk/login"**) {  **return** {  *↑*  *Existing code here …*  *↓*  *// User create* $.mockjax(**function** (requestSettings) {  **if** (requestSettings.url === **"https://mock.api.com/user/kid\_rk/"** &&  requestSettings.method === **"POST"**) {  **return** {  *Existing code here …*  *↓* |