# Exercise: Source Control Systems

# Stage 4, Task 1 – Notifications

**To begin, checkout locally the branch Notifications created in Task 4-0 and make sure it’s up-to-date with the master from Stage 3.**

Right now, there is no personalization, so we’re going to add a little greeting to the header of our app. When browsing around the user cannot tell if the page is loading or if it’s stuck – we need notifications that inform the user the app is loading or when an action completed successfully or an error occurred. We’ll do all of that in a separate branch, while the rest of the app is published and operational.

At the end of this stage, your files should be identical to the ones in folder **4. Branch1**

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| **Each task should be assigned to a different team member. Work on tasks 4-1 and 4-2 simultaneously and commit changes to the Notifications branch in order.** |

Add the highlighted sections to the beginning of the document’s <main> element for our notification system:

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| index.html |
| *↑*  *Existing code here …*  <**main**>  <**section id="loadingBox" class="loadingBox"**>Loading ...</**section**>   <**section id="infoBox" class="infoBox"**>Info</**section**>   <**section id="errorBox" class="errorBox"**>Error</**section**>   <**section id="viewHome" class="viewHome"**>  <**h1 class="title"**>Welcome</**h1**>  <**p class="body-text"**>Welcome to our advertisement site.</**p**>  </**section**>  *Existing code here …*  *↓* |

Append the following lines to the end of the file, to apply a style to the notifications:

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| prodavachnik.css |
| *↑*  *Existing code here …*  **#infoBox**, **#errorBox**, **#loadingBox** {  **width**: 100%;  **color**: **white**;  **text-align**: **center**;  **padding**: 15**px**;  **transition**: .5**s ease-in**; }  **#loadingBox** {  **background**: **#7CB3E9**; } **#infoBox** {  **background**: **#393**; } **#errorBox** {  **background**: **#F50**; } |

In our front-end script, add only the highlighted lines (lookup the names of functions as a guide). Don’t miss the commas when adding new properties!

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| prodavachnik.js |
| *↑*  *Existing code here …*  *// Bind the form submit buttons* $(**"#buttonLoginUser"**).click(*loginUser*);  $(**"#buttonRegisterUser"**).click(*registerUser*);   *// Bind the info / error boxes* $(**"#infoBox, #errorBox"**).click(**function**() {  $(**this**).**fadeOut**();  });   *// Attach AJAX "loading" event listener* $(**document**).on({  ajaxStart: **function**() { $(**"#loadingBox"**).show() },  ajaxStop: **function**() { $(**"#loadingBox"**).hide() }  });   **const** kinveyBaseUrl = **"https://mock.api.com/"**;  **const** kinveyAppKey = **"kid\_rk"**;  **const** kinveyAppSecret = **"736804a668"**;  *↑*  *Existing code here …*  *↓*  $(**"#linkLogout"**).show();  }  }   **function** *showInfo*(message) {  $(**'#infoBox'**).text(message);  $(**'#infoBox'**).show();  setTimeout(**function**() {  $(**'#infoBox'**).**fadeOut**();  }, 3000);  }   **function** *showError*(errorMsg) {  $(**'#errorBox'**).text(**"Error: "** + errorMsg);  $(**'#errorBox'**).show();  }   **function** *handleAjaxError*(response) {  **let** errorMsg = ***JSON***.stringify(response);  **if** (response.readyState === 0)  errorMsg = **"Cannot connect due to network error."**;  **if** (response.responseJSON && response.responseJSON.**description**)  errorMsg = response.responseJSON.**description**;  *showError*(errorMsg);  }   **function** *showHomeView*() {  *showView*(**'viewHome'**);  }  *↑*  *Existing code here …*  *↓*  *// 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*,  **error**: *handleAjaxError* });   **function** *loginSuccess*(userInfo) {  *saveAuthInSession*(userInfo);  *showHideMenuLinks*();  *listAdverts*();  *showInfo*(**'Login successful.'**);  }  }  *↑*  *Existing code here …*  *↓*  *// 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*,  **error**: *handleAjaxError* });   **function** *registerSuccess*(userInfo) {  **console**.log(userInfo);  *saveAuthInSession*(userInfo);  *showHideMenuLinks*();  *listAdverts*();  *showInfo*(**'User registration successful.'**);  }  }   *// user/logout* **function** *logoutUser*() {  **sessionStorage**.clear();  $(**'#loggedInUser'**).text(**""**);  *showHideMenuLinks*();  *showHomeView*();  *showInfo*(**'Logout successful.'**);  }   *// 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*,  **error**: *handleAjaxError* });   **function** *loadAdvertsSuccess*(adverts) {  *showInfo*(**'Advertisements loaded.'**);  **if** (adverts.length === 0) {  $(**'#ads'**).text(**'No advertisements available.'**);  } **else** {  *Existing code here …*  *↓* |