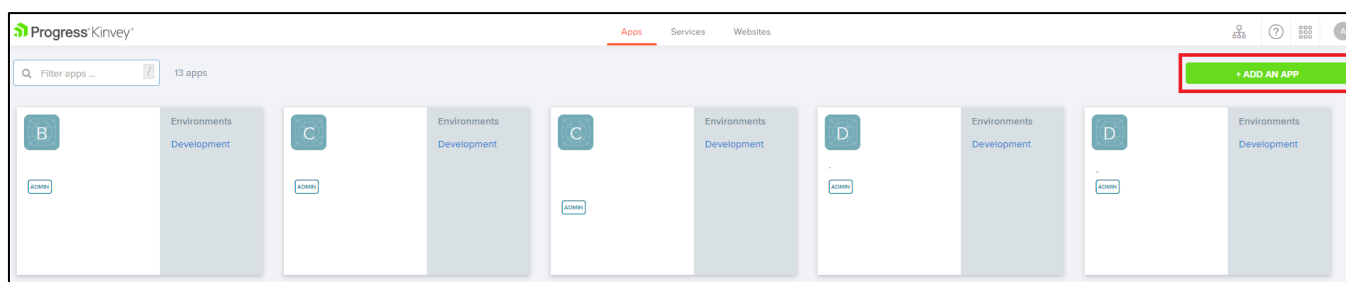


JS Applications Exam - DonUni SPA

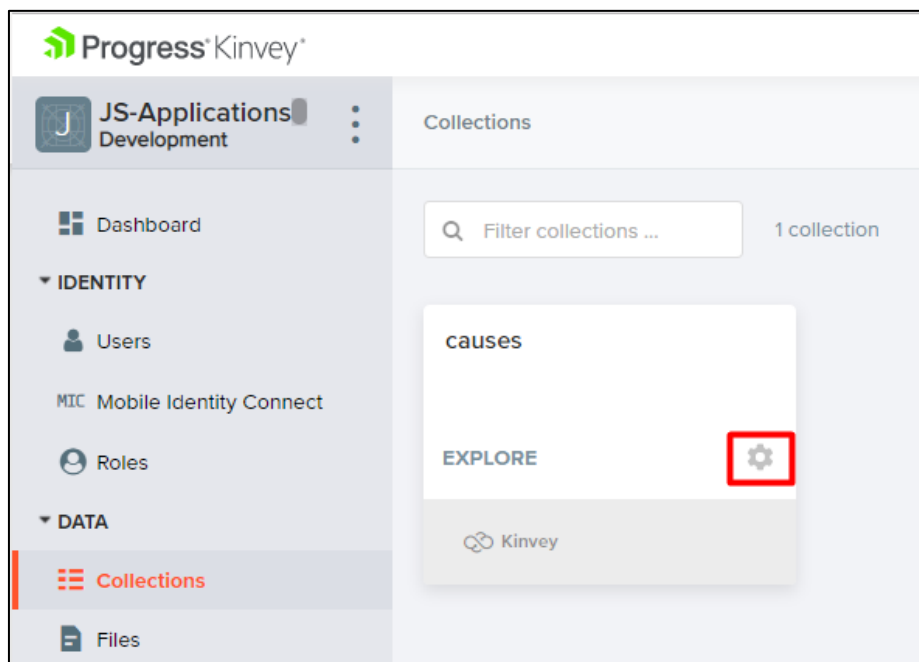
You are assigned to implement a **Web application** (SPA) using HTML5, JavaScript, AJAX, REST and JSON with cloud-based backend (Kinvey). Using libraries like **jQuery**, **Handlebars** and **Sammy** is allowed. The app keeps **users** and **causes**. **Guests** should be able to **register** and **login**. Logged-in users should be able to view **all causes (dashboard)**, **create and view cause** and **logout**. Logged-in users should also be able to **edit** or **delete** the causes **they have created**.

1. Create a Kinvey REST Service

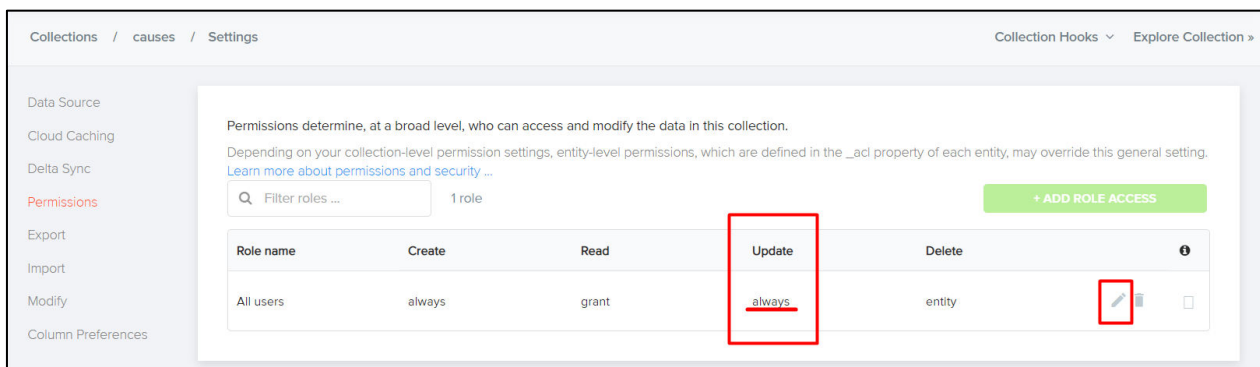
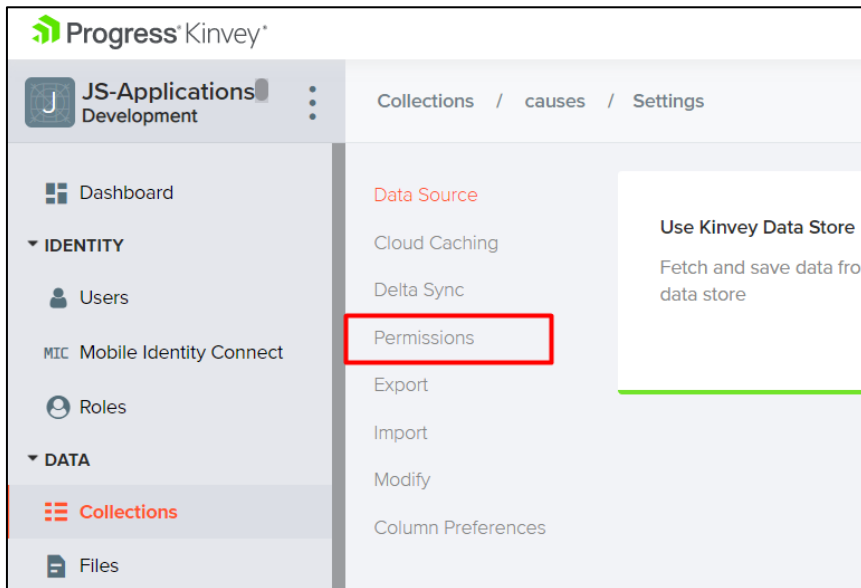
Register at **Kinvey.com** (<https://console.kinvey.com/login>) and create application to keep your data in the cloud.



Create a collection called **causes**. Each **cause** has a **donors**, **cause**, **pictureUrl**, **neededFunds**, **description** and **collectedFunds**.



In order to perform a successful donation to other person's cause, you should change the default permissions on the current kinvey collection, like the example below.



Here some example with already created cause:



2. Test the Kinvey REST Services

Using **Postman** or other HTTP client tool (you can use Kinvey's built-in **API Console**), test the REST service end points:

User Registration (Sign-Up)

The request needs **"Basic"** authentication. Use the Kinvey **App Key** and **App Secret** as credentials.

POST https://baas.kinvey.com/user/app_key/	
Request headers	Authorization: Basic base64(app_key:app_secret) Content-Type: application/json
Request body	<pre>{ "username": "testuser", "password": "weakpass123" }</pre>
Response 201 Created	<pre>{ "_id": "59930c78a743e20c7d3fca77", "username": "testuser", "password": "weakpass123" }</pre>
Error response 409 Conflict	<pre>{ "error": "UserAlreadyExists", "description": "This username is already taken. Please retry your request with a different username", "debug": "" }</pre>
Error response 401 Unauthorized	<pre>{ "error": "InvalidCredentials", "description": "Invalid credentials. Please retry your request with correct credentials", "debug": "" }</pre>

User Login (Sign-In)

Successful login returns an **authtoken** which is later used to authenticate the CRUD operations.

POST https://baas.kinvey.com/user/app_key/login	
Request headers	Authorization: Basic base64(user_username:user_password) Content-Type: application/json
Request body	<pre>{ "username": "testuser", "password": "weakpass123" }</pre>

Response 200 OK	<pre>{ "_id": "59930c78a743e20c7d3fca77", "username": "testuser" "_kmd": { "authtoken": "8e6471bc-3712-4cfb-b92e-50e62a0c80....Duj5fHdM/7XHie6KdY=" ... }, ... }</pre>
Error response 401 Unauthorized	<pre>{ "error": "InvalidCredentials", "description": "Invalid credentials. Please retry your request with correct credentials", "debug": "" }</pre>

User Logout

To logout, you need to provide the **authtoken** given by login/register as "**Kinvey**" authorization header.

POST https://baas.kinvey.com/user/app_key/logout	
Request headers	Authorization: Kinvey authtoken
Response 204 No Content	null
Error response 401 Unauthorized	<pre>{ "error": "InvalidCredentials", "description": "Invalid credentials. Please retry your request with correct credentials", "debug": "" }</pre>

Dashboard (List All Causes)

GET https://baas.kinvey.com/appdata/app_key/causes	
Request headers	Authorization: Kinvey authtoken
Response	[{

200 OK	<pre> "cause": "...", "donors": [...], "pictureUrl": "https://....", "neededFunds": ..., "description": ..., "collectedFunds": ..., "_acl": { "creator": "5bfd4674682ae23931b4f91c" }, "_kmd": { "lmt": "2018-11-28T15:25:24.521Z", "ect": "2018-11-28T14:55:00.958Z" } }, ...]</pre>
Error response 401 Unauthorized	<pre> { "error": "InvalidCredentials", "description": "Invalid credentials. Please retry your request with correct credentials", "debug": "" }</pre>

Create Cause

POST https://baas.kinvey.com/appdata/app_key/causes	
Request headers	<p>Authorization: Kinvey authtoken</p> <p>Content-Type: application/json</p>
Request body	<pre> { "cause": "...", "donors": [...], "pictureUrl": "https://....", "neededFunds": ..., "description": ...,</pre>

	<pre>"collectedFunds": ..., }</pre>
Response 201 Created	<pre>{ "cause": "...", "donors": [...], "pictureUrl": "https://....", "neededFunds": ..., "description": ..., "collectedFunds": ..., "_acl": { "creator": "5bfd4674682ae23931b4f91c" }, "_kmd": { "lmt": "2018-11-28T15:39:58.801Z", "ect": "2018-11-28T15:39:58.801Z" }, "_id": "5bfeb6ce682ae23931bf7d26" }</pre>
Error response 401 Unauthorized	<pre>{ "error": "InvalidCredentials", "description": "Invalid credentials. Please retry your request with correct credentials", "debug": "" }</pre>

Edit Cause

PUT https://baas.kinvey.com/appdata/app_key/causes/cause_id	
Request headers	Authorization: Kinvey authtoken Content-Type: application/json
Request body	<pre>{ "cause": "...", "donors": [...], "pictureUrl": "https://....",</pre>

	<pre> "neededFunds": ..., "description": ..., "collectedFunds": ..., } </pre>
Response 200 Ok	<pre> { "_id": "59931398996ab5127d2a84d1", "cause": "...", "donors": [...], "pictureUrl": "https://.....", "neededFunds": ..., "description": ..., "collectedFunds": ..., ... } </pre>
Error response 401 Unauthorized	<pre> { "error": "InvalidCredentials", "description": "Invalid credentials. Please retry your request with correct credentials", "debug": "" } </pre>

Delete Cause

DELETE https://baas.kinvey.com/appdata/app_id/causes/cause_id	
Request headers	Authorization: Kinvey authToken
Response 200 OK	<pre> { "count": 1 } </pre>
Error response 404 Not Found	<pre> { "error": "EntityNotFound", "description": "This entity not found in the collection", "debug": "" } </pre>
Error response 401 Unauthorized	<pre> { "error": "InvalidCredentials", "description": "Invalid credentials. Please retry your request with correct credentials", "debug": "" } </pre>

3. DonUni - HTML and CSS

You have been given the web design of the application as **HTML + CSS** files.

Initially all views and forms are shown by the HTML. Initially, all views and forms are shown by the HTML. Your application must display the current views depends on the routing URL. You may render the views/forms/components with **Handlebars**.

Important

Don't change the elements' **class names** and **ids**. You are **allowed** to add **data attributes** to any elements. You may modify **href attributes** of links and add **action/method attributes** to **forms**, to allow the use of a routing library.

4. DonUni - Client-Side Web Application

Design and **implement** a client-side front-end app (SPA) for managing **causes and donations**. Implement the functionality described below.

Navigation Bar (Header) (5)

Navigation links should correctly change the current page (view).

Clicking on the links in the **NavBar** should display the view behind the link (views are represented as sections in the HTML code).

Your application must display the views it needs to display.

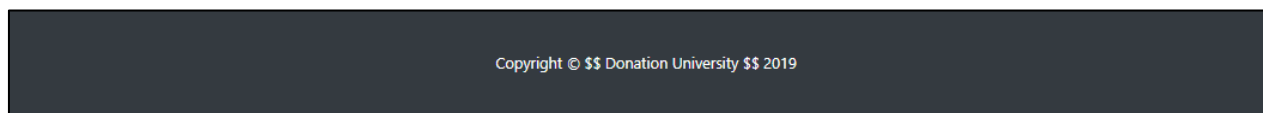
The **Logged-in user** navbar should contain the following elements: **[DonUni]**, **[\$\$\$\$\$\$\$\$\$\$\$\$]**, and **[Logout ({username})]**.



The guest users navbar should contain the following elements: **[DonUni]**, **[Login]** and **[Register]**



Footer



Register Page (5)

By given **username** and **password**, the app should register a new user in the system.

- The following validations should be made:

- The **username** and **password** must be non-empty string
- The **re-password** should be **equal to the password**
- After a **successful registration**, **home page** should be displayed **with the right navbar**.
- Keep the user session data in the browser's **session or local storage**.

DonUni

Login

Register

Your username

Your password

Your re-password

Register

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Login Page (5)

By given **username** and **password**, the app should login an existing user.

- After a **successful login**, a **home page** should be displayed with the **right navbar**.
- Keep the user session data in the browser's **session or local storage**.

DonUni Login

Login

Your username

Your password

Logged In

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Logout (5)

Successfully logged in users should be able to **logout** from the app.

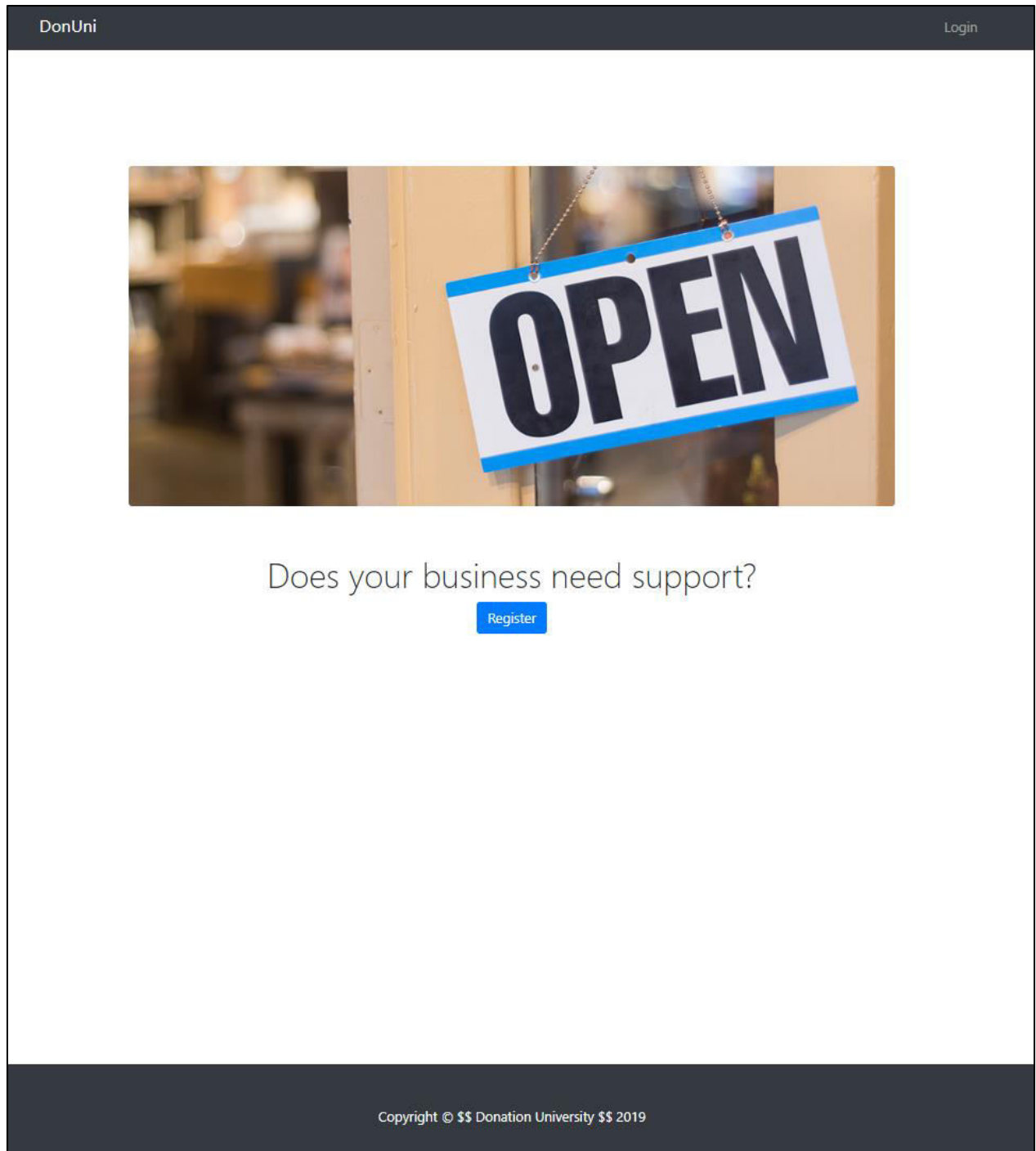
- After a **successful** logout the **home page for guest users** should be shown
- The **"logout" REST service** at the back-end **must** be called at logout
- All local information in the browser (**user session data**) about the current user **should be deleted**

Home Page (5)

The initial page (view) should display the **navigation bar for guest users + Home Page + Footer**.

[DonUni] button should refer to the home page (view)


[Register] button should refer to the register view.



If user is logged-in the page (view) should display the **navigation bar logged-in users + Home Page + Footer**. And the **[Create your cause and seek for donors]** button should refer to the **create cause view**.

DonUni

\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ Logout (MIROLL)



Does your business need support?

Create your cause and seek for donors

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Create Cause (15)

Logged-in users should be able to **Create causes**.

Clicking the **[Create your cause and seek for donors]** button in the **Home page view** should **display** the **Create Cause View**.

- The input fields must be **non-empty strings**
- Note that you should add additional two properties (**donors** and **collectedFunds**)
- After a **successful** offer creation the **Dashboard** or **Home Page** should be shown

The newly created offer should be stored in the Kinvey collection "**causes**".

DonUni

\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ Logout (MIROLL)

Look for a donation

Your cause

Collage...

Your cause picture...

https://...

Your needed funds...

2400.00

Your cause description...

I'm looking for funds because...

Send

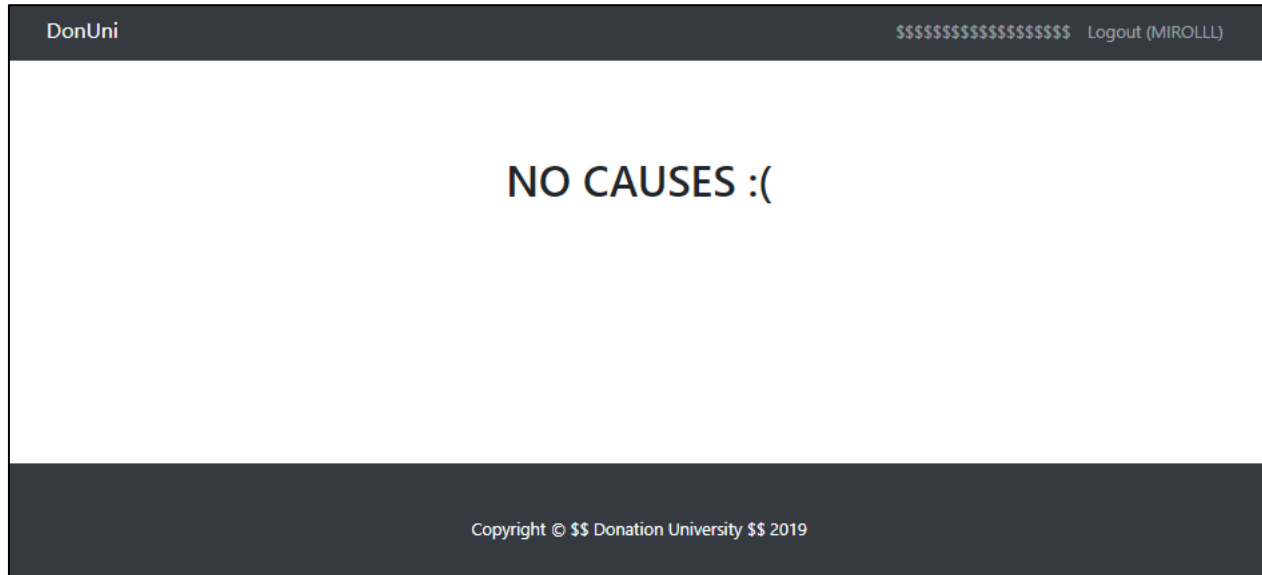
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Dashboard (25)

By clicking over [\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$] button, the currently logged-in user should be able to see all created causes.

The initial page (view) should display the **navigation bar for logged-in users + Dashboard + Footer**.

If there are **NO** such causes, the following view should be displayed.



If there is at least **one registered cause**, the causes must be shown like the example below:



Traveling

I want to travel so much

Become a donor \$\$\$

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Cause Details (15)

Logged-in users should be able to **view details** about causes and their donations.

Clicking the [**Become a donor \$\$\$**] link in of a **particular cause** should **display** the **Cause Details view**, where the cause's **name**, **pictureUrl**, **collected** and **needed funds**, **description** and **donors** are shown in the format below on the picture.

[Make a donation](#)



Traveling

Collected **\$15718** from **\$4000.00**

Description:

I want to travel so much

Donors:

Kiko Momo SAKE 1 miroLLL r r

My donation:

Make the donation

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Edit Cause (15)


Logged-in users should be able to **edit (Make a donations)** to others causes.

Clicking the **[Make the donation]** link of a **particular cause**, a put request should be send to the **causes collections** and the current cause's **collected funds** should be changed (**increased** with the **given value**).

DonUni

\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ Logout (MIROLL)

Make a donation



Traveling

Collected \$15718 from \$4000.00

Description:

I want to travel so much

Donors:

Kiko Momo SAKE 1 miroLLL r r

My donation:

Make the donation

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Delete Offer (5)

Logged-in users should be able to **delete their** causes.

Clicking the **[Delete]** link of an **particular offer** the **Offer Delete page** should be displayed with already filled information about that offer, but all input fields are disabled.


If the [Close the cause] button in the **Cause Details View**, the current offer must be **deleted** from the DOM and from the Kinvey collection.

After **successful offer delete** a **Dashboard page** must be shown.

DonUni

\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ Logout (NEWNAME)

Make a donation



Traveling

Collected \$15718 from \$4000.00

Description:
I want to travel so much

Donors:
Kiko Momo SAKE 1 miroLLL r r

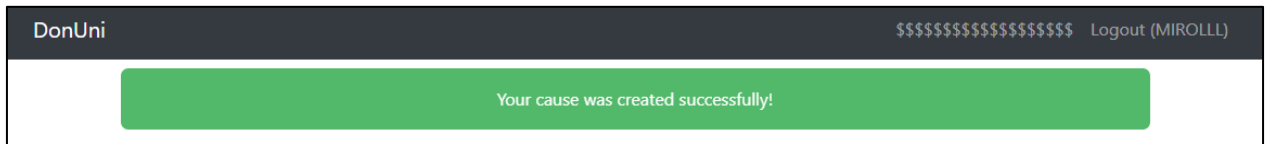
Close the cause

Copyright © \$\$ Donation University \$\$ 2019

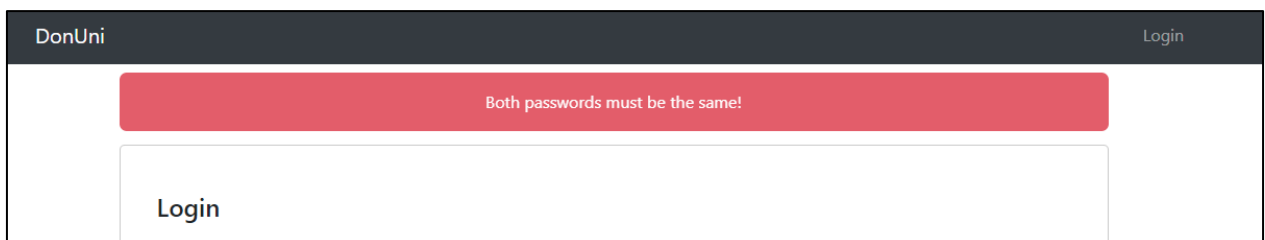
BONUSES (5)

Notifications (5)

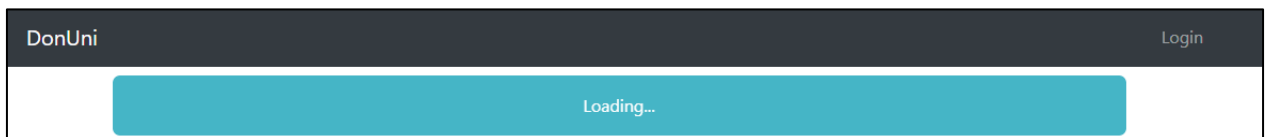
- In case of a **successful** action (create cause, login, registration, edit, delete), a **notification message (green)** should be shown, which disappears manually when the user clicks it.



- In case of **error** (wrong passwords, wrong ajax call, authorization, etc...), an **error notification message (red)** should be shown, which disappears on user click.



- During the **AJAX calls** a **loading notification message (blue)** should be shown. It should disappear automatically as soon as the AJAX call is completed.



Note

Each view should have his own unique and properly named action (url), to be able to get the full points from each section.

GOOD LUCK! 😊