UD5. Activity 1 (part 2)

MULTIMEDIA CONTENT IMPLEMENTATION

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UD5. Activity 1 (Part 2)

In this activity we are going to work with indexedDB to manage the users of our blog. Until now we only had blogger users, but we are going to add another user type: an administrator.

To do this we must add a checkbox on the registration page to mark whether the user to be registered is a standard user or an administrator.

In addition, when registering we must check the values entered by users so that the fields are not empty, that the format of an email is correct and that the password contains at least 8 characters, containing lowercase and uppercase letters, a number and a special character. The password will not be stored in plain text, but we will use an encryption system that uses md5. There are several libraries to use this function, such as CryptoJS.

When a user registers, they will automatically be logged in as well. To do this we must save in our database which user is logged in.

- If the logged in user is a standard user then we redirect to the main page and display the user name and avatar according to the initial design.
- If the logged in user is an administrator, we redirect to a new page with the list of created users with all their information (except the password).

Remember that when the homepage is loaded, it is necessary to check if there is a logged in user or not and redirect us to the corresponding page. Likewise, if we access the url of the administrator user, if there is no user of this type logged in, the page should redirect us to the homepage.

In both cases there will be an option to **log out**.

Actions that users can perform:

Administrator. On the administrator page, where we have the list of users, we will be able to do the following: edit user's data, reset the password and delete a user's account. Remember to ask for confirmation to perform these actions that cannot be undone.

Standard user and administrator. On the main page, in addition to displaying the user name and avatar, there will be an option to edit the user's profile and other user preferences. There, the user will be able to edit their personal data, change the password, change the avatar, delete their user account and change the theme of the page (light or dark).

- If a user deletes the account, he/she automatically has to log out.
- If the colour of the theme is changed, the change must be applied.

We will separate the deliverables for this task into **two parts**:

- In the first one, the entire user registration and login function will be done with the respective redirections: main page for standard users with the display of name and avatar; new page with the list of created users for administrators.
- In the next part we will add the actions of both pages: editing users and profiles and logging out.

Source Github project

If you clone the project, you will have all the activities I have done so far sorted by folders in "activities" root directory.

Source project:
https://github.com/abarcelogarcia/abarcelogarcia.github.io

Root folder for this activity: UD5. Activity 1 (Part 1)
activities/UD5A_1_IndexedDB (Part 2)

github-pages (latest version)
https://abarcelogarcia.github.io/

The website structure

Directory	Files	Concept
root	index.html	main website file.
	index_admin.html	admin web file
	index_profile.html	user profile web file
backups	UsersBK.json	json users backup file
css	avatar_effect.css	css file to apply avatar's effect without js
	bootstrap_custom.css	css file genered by sass
	bootstrap_custom.css.map	Css map file genered by sass
	bootstrap_custom.scss	sass file code
	bootstrap_custom_dark.css	css file dark theme genered by sass
	bootstrap_custom_dark.css.map	Css dark theme map file genered by sass
	bootstrap_custom_dark.scss	sass dark theme file code
js	common.js	Common JS file
	crypto.js	functions for encrypt the password
	form_password_validator	functions to reset user password
	form_validator.js	form validation functions
	index_admin.js	functions for admin page
	index_profile.js	functions for user profile
	index.js	functions for home page
fonts	BAHNSCHRIFT.TTF	typography chosen in the guide style.
img	*.png, *.jpg	images directory for the web.
node_modeules	*	Bootstrap sass modules
views	post.html	Post file

Anotations:

The name of the indexedDB database is **blogginDB.**

In the database there are 2 Objectstorage.

- **Users**: stores the users.
- **Login**: stores the user who has logged in.

When creating the database, in the users' storage I create an index for each form field so that in future updates it will be easier to search for a specific field.

The admin page is *index_admin.html*

The user profile page is *index_profile.html*

USERS MANAGEMENT (admin user)

Login

When you log in as an administrator, you go to the registered user management page. The user's avatar, name and logout button appear.
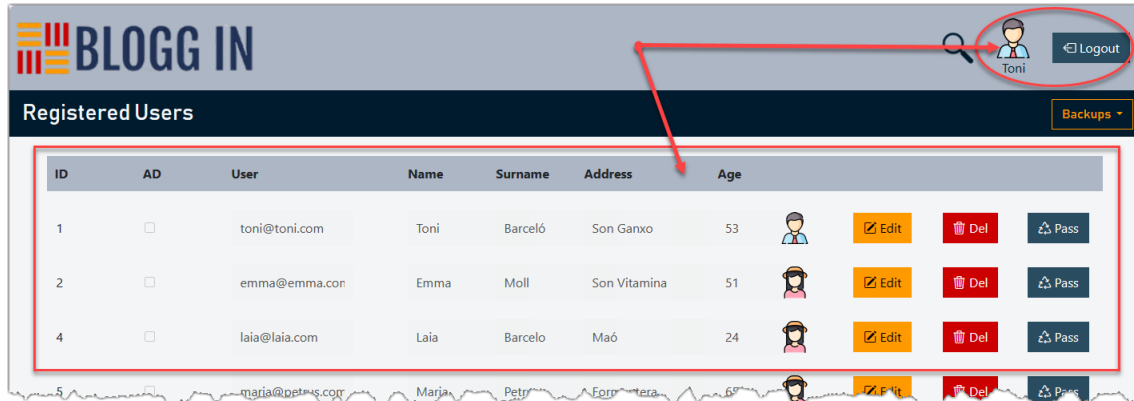
Editing

On this page, you can edit any field for any user. Clicking on the edit button of one of the records activates the edit mode that allows you to edit the field.
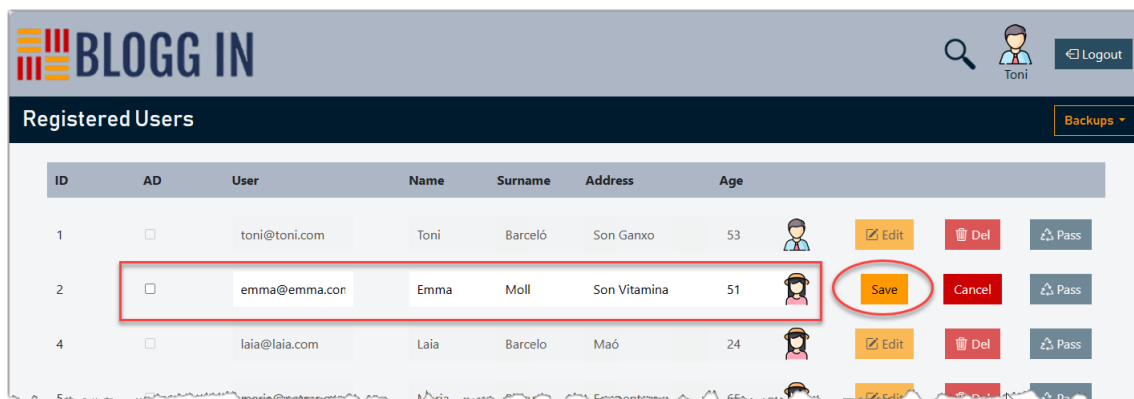
As this is an irreversible process, confirmation is requested from the user.
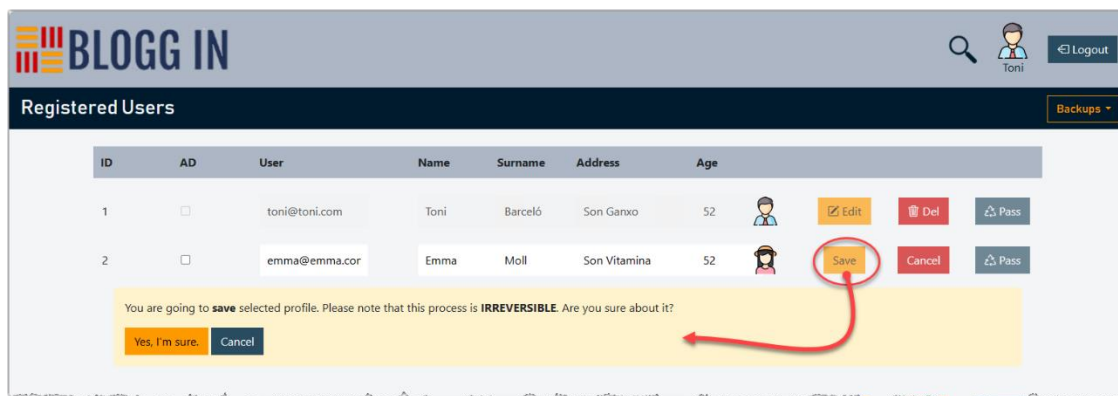
Delete

In the same register there is a button to delete a record. If you delete a record, you will be asked to confirm that this is an irreversible process.
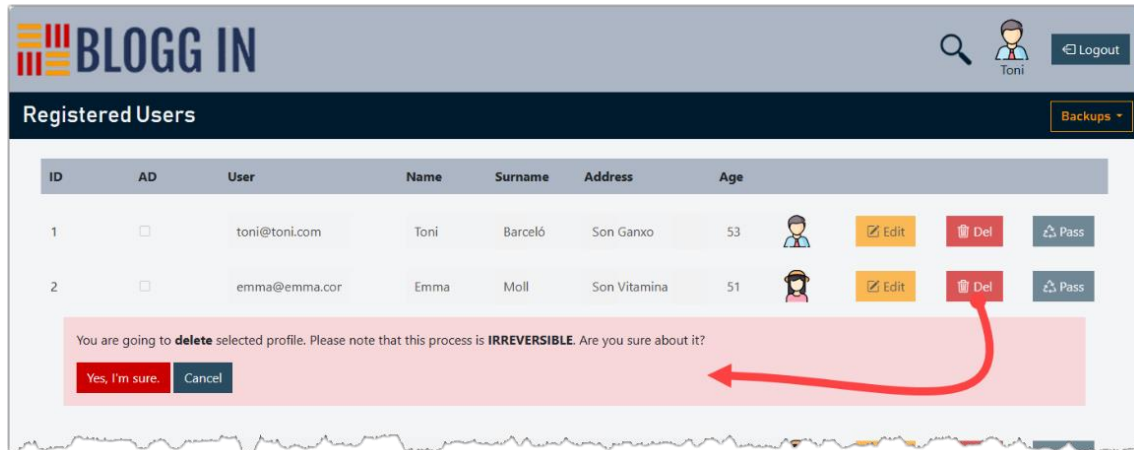
Change Password

There is a third button that allows us to change the password. When you click on it, a modal window appears where you can auto-generate and assign a new secure password.
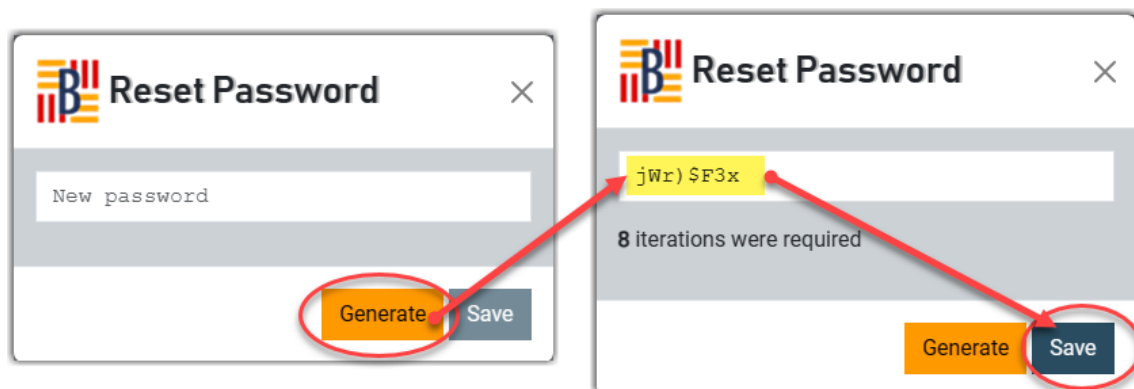
Editing avatar

To edit the avatar, when cycling over it in edit mode, a modal window appears with the same effects code as when creating the user.
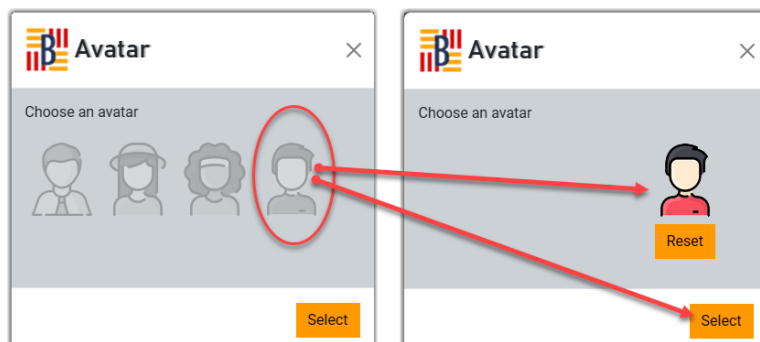
Extra: backups

I have created a backup process that generates a json with the current database data. Also the import of that json file to restore the database.
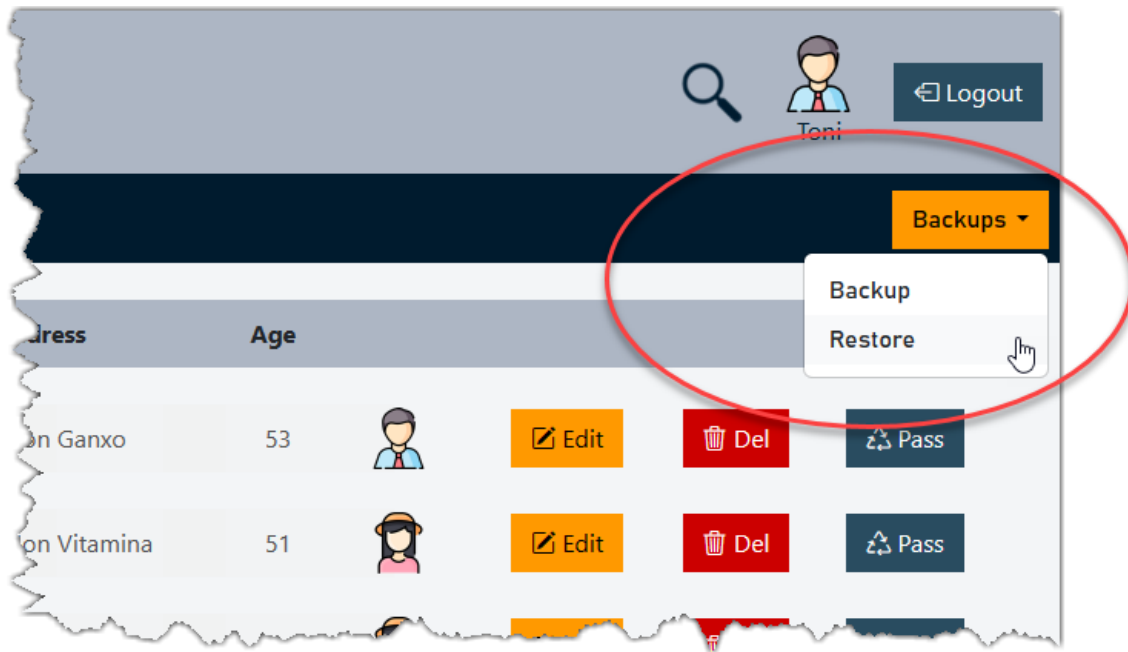
USERS MANAGEMENT (user)

Login

When you log in with a resgistered user who is not an administrator, redirect to the home page, set the user's avatar and name and reformat the login button to logout.

Editing profile

By clicking on the avatar, we are redirected to a page where we can edit, delete, change the password and change the user's theme.

The already saved data are already pre-set in the inputs. By clicking on the edit button, the inputs are enabled and can be edited. Finally, when saving, the changes are recorded in the database.
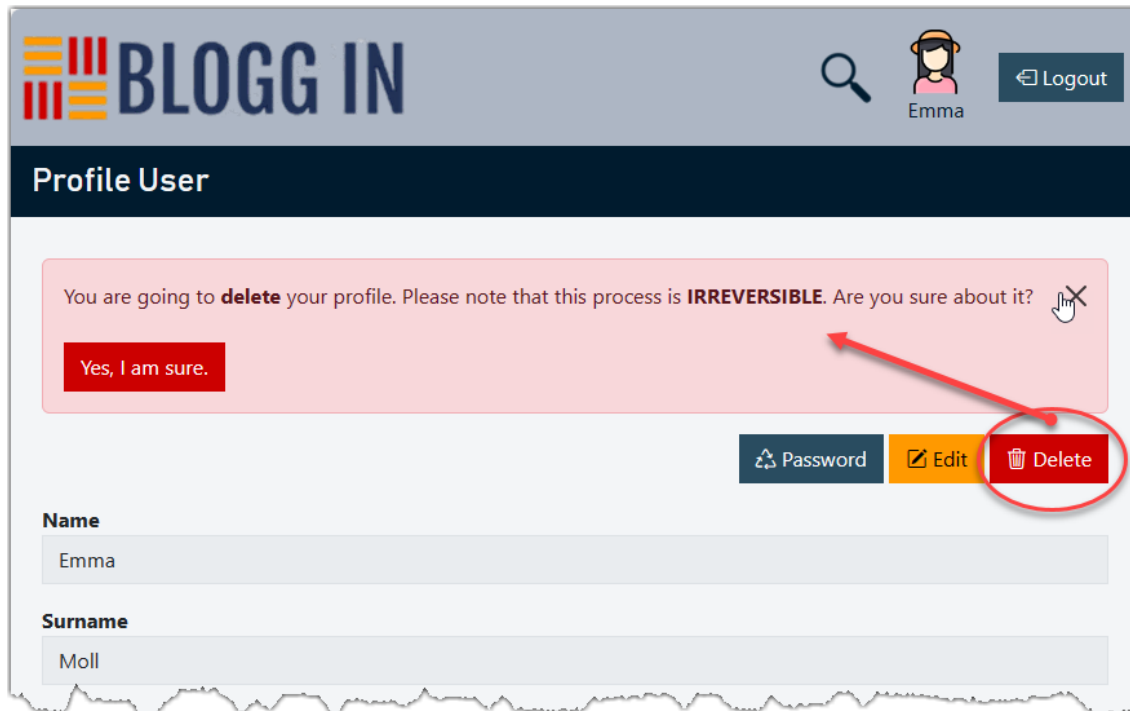
The avatar is edited in the same way as when creating the user.
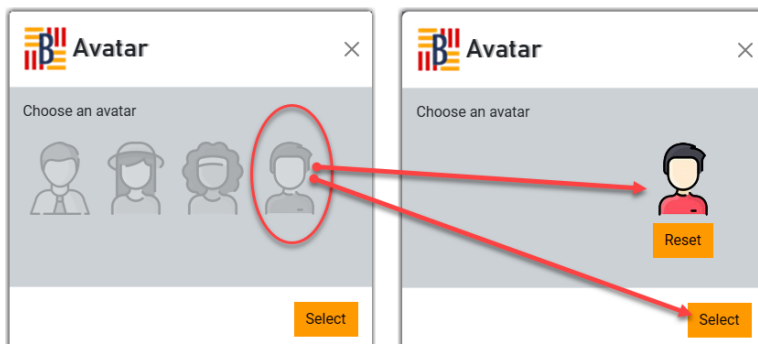
Delete
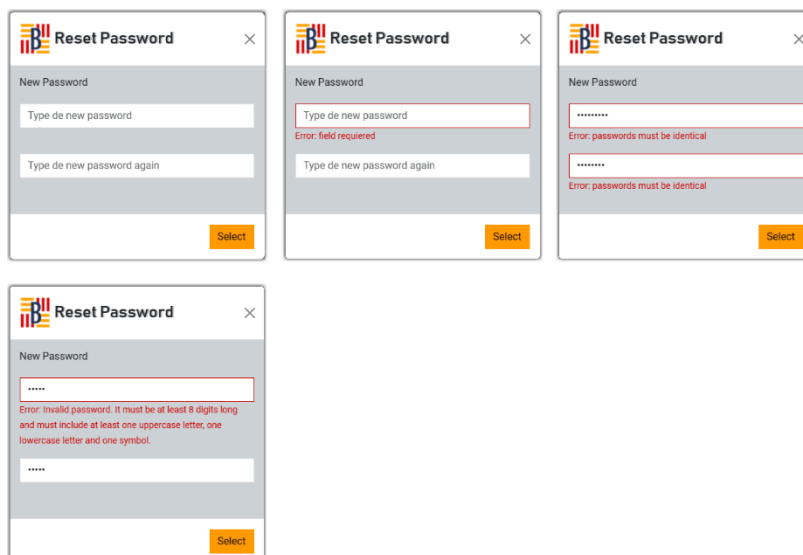
When we want to delete the profile, the system warns us that the process is irremediable.

Change Password

When we click on the change password button, we are shown a modal window where we must enter the password. There is a secure password checker to help us in the process.

Theme

In the profile editing you can also change the theme of the website. When saving it is automatically applied to the whole site.

General

Change theme user admintartor

To select the theme of an administrator user's website, go to their profile and select it. From there we can go back to user management by clicking again on the avatar.
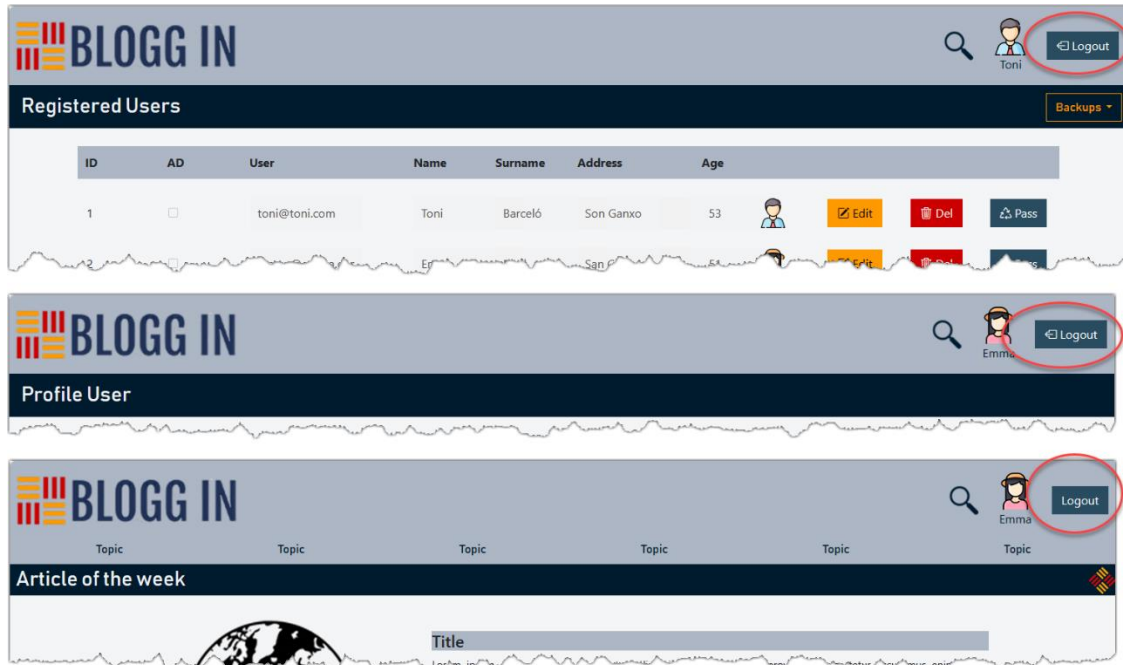
Logout

Once logged in, on any page you will find the logout button to exit at any time.