

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 generated by sass |
| | bootstrap_custom.css.map | Css map file generated by sass |
| | bootstrap_custom.scss | sass file code |
| | bootstrap_custom_dark.css | css file dark theme generated by sass |
| | bootstrap_custom_dark.css.map | Css dark theme map file generated 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_modules | * | 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.

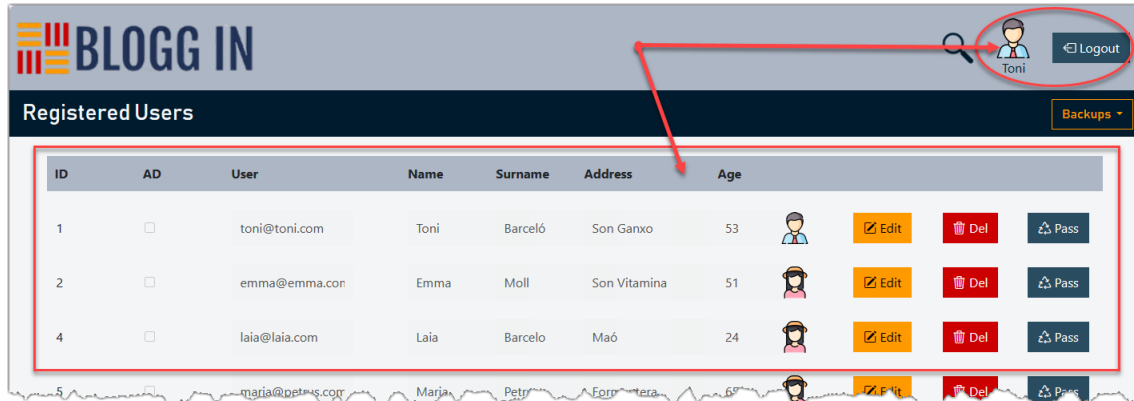
The admin page is *index_admin.html*

The user profile page is *index_profile.html*

USERS MANAGEMENT (admin user)

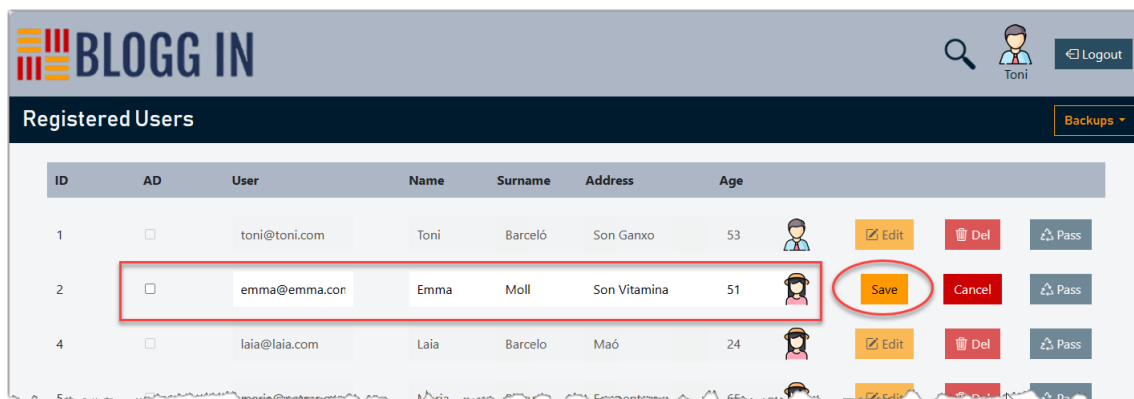
Login

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

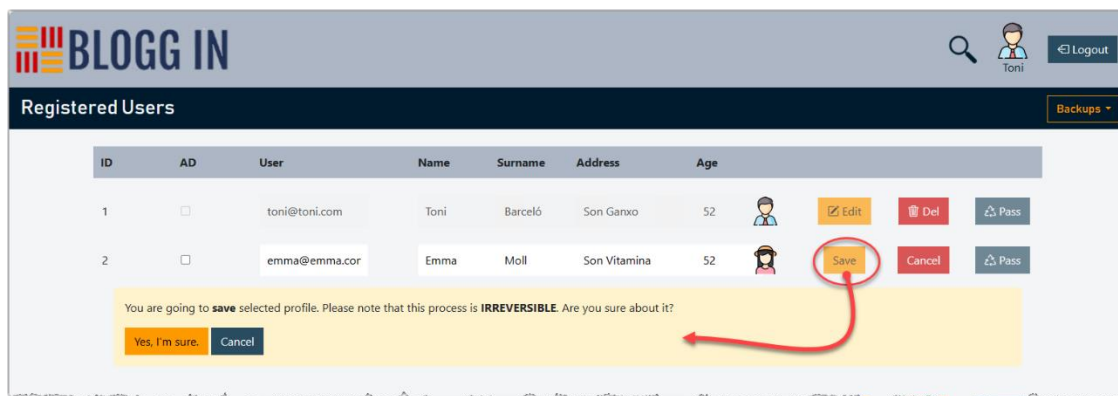


Editing

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.

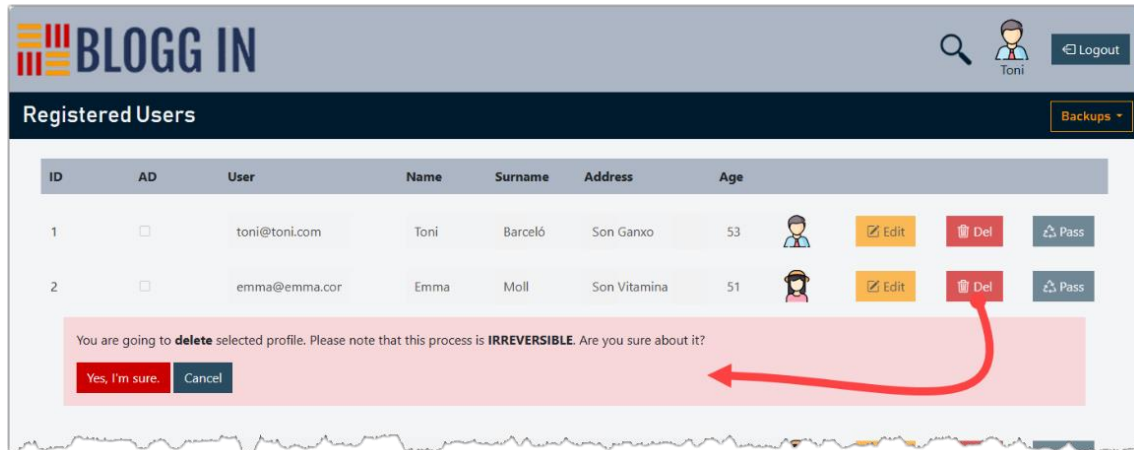


As this is an irreversible process, confirmation is requested from the user.



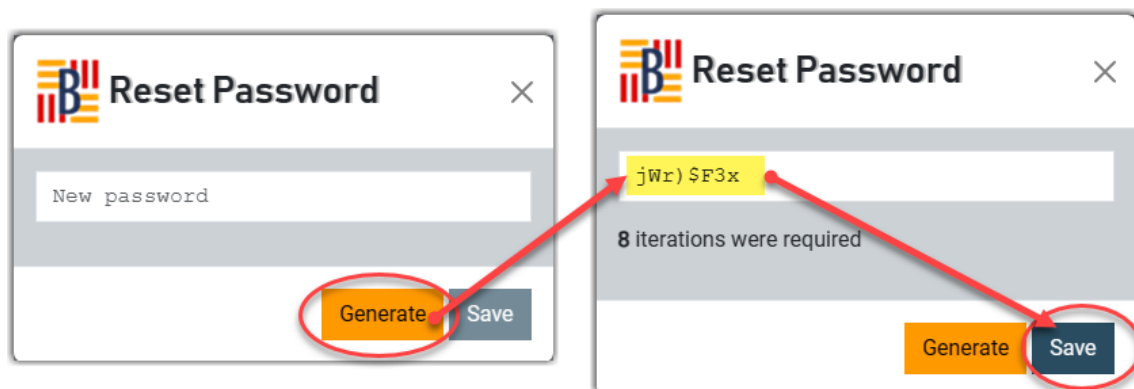
Delete

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.



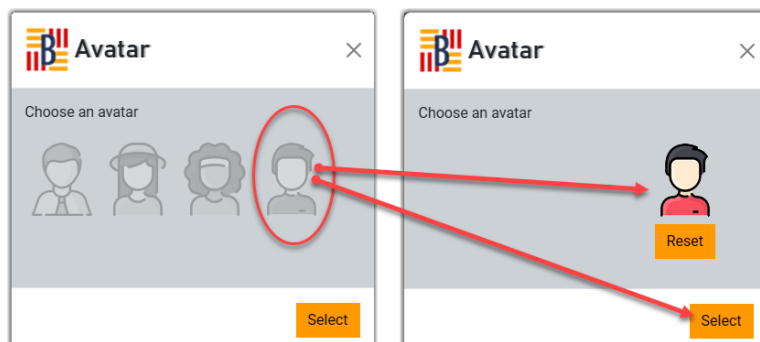
Change Password

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.



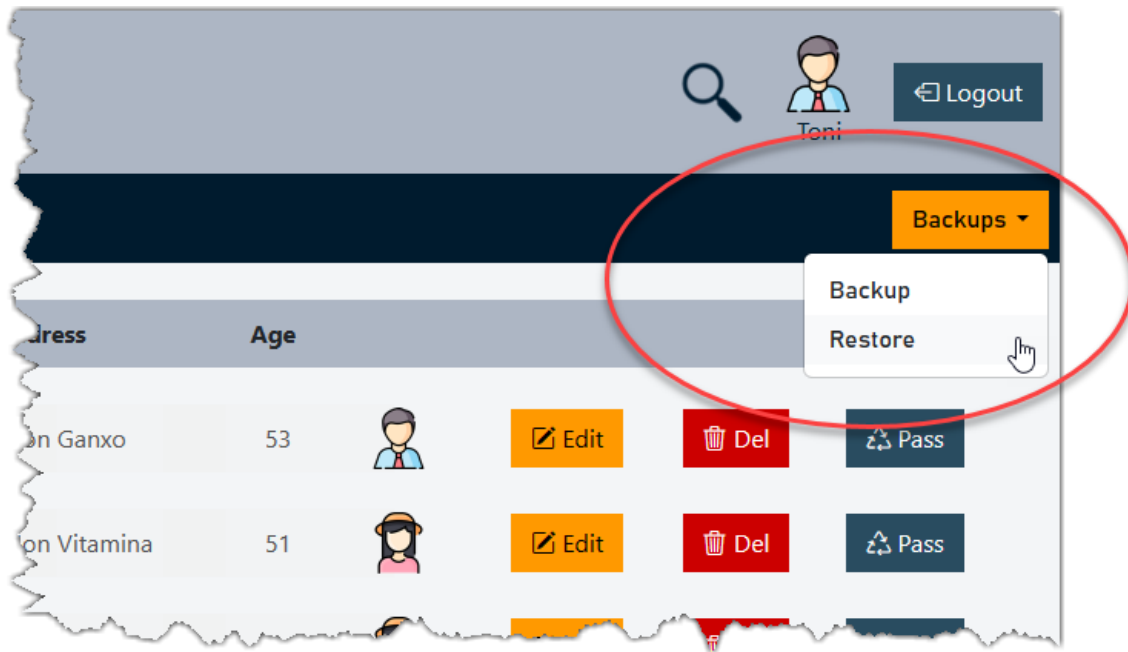
Editing avatar

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 registered 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.



BLOGG IN   Emma [Logout](#)

Profile User

[Password](#) [Edit](#) [Delete](#)

Name
Emma

Surname
Moll

Address
Son Vitamina

Age
51

Choose your avatar

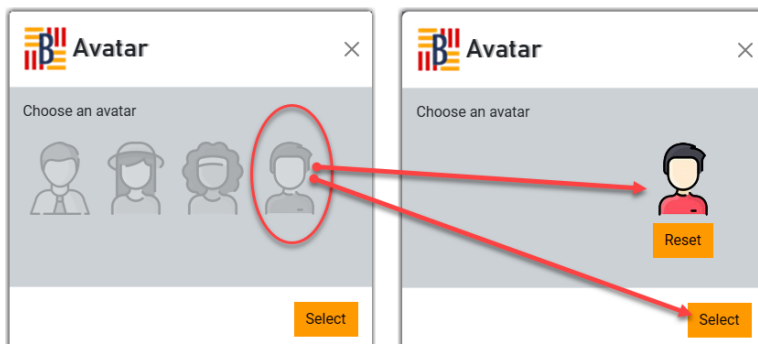
   

Web Style theme
Light 

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.

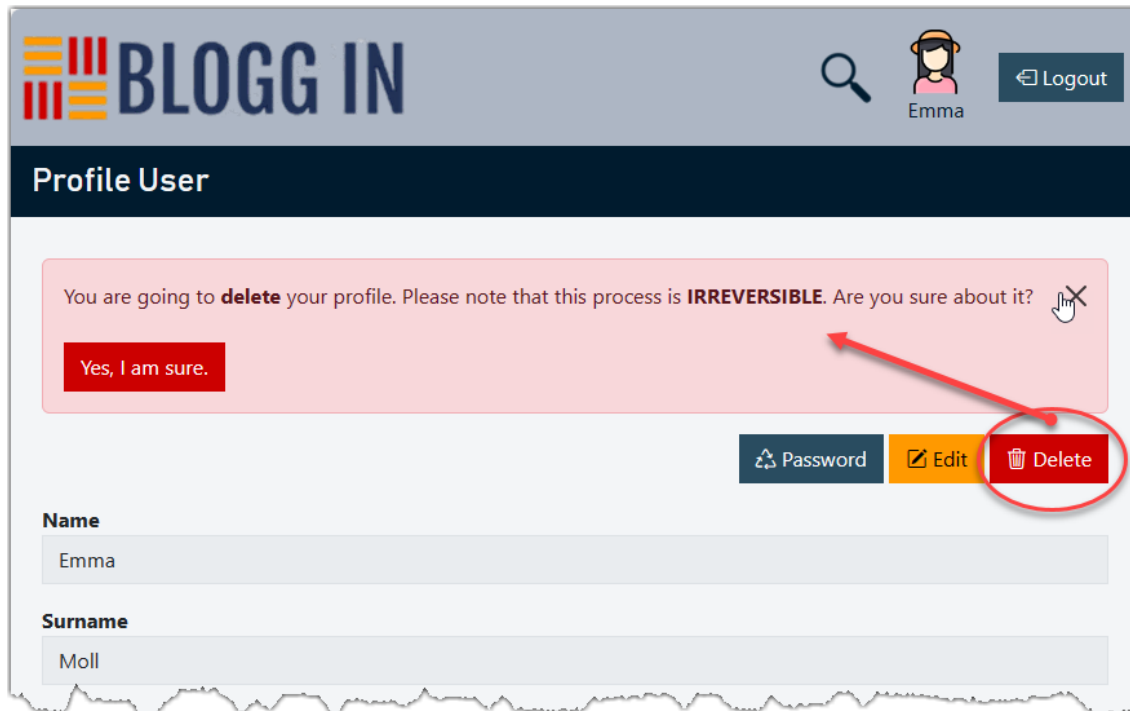


The avatar is edited in the same way as when creating the user.



Delete

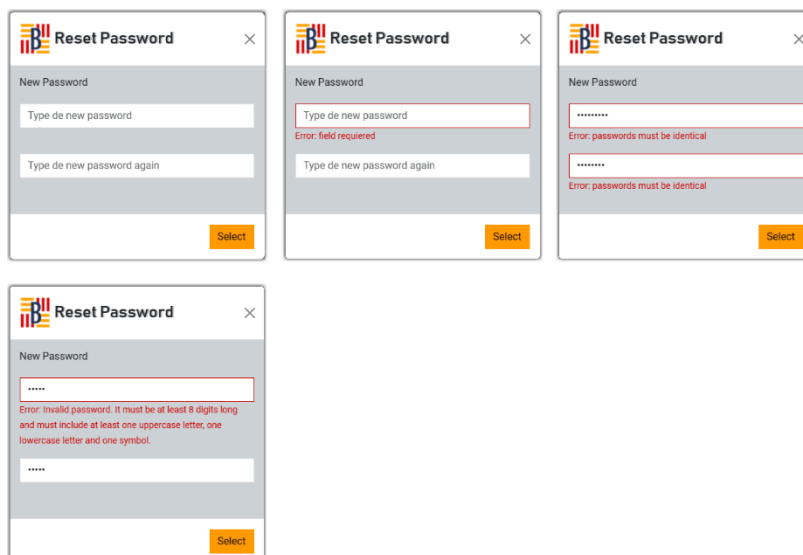
When we want to delete the profile, the system warns us that the process is irremediable.



The screenshot shows the 'Profile User' page for a user named Emma. At the top, there is a navigation bar with the Blogg IN logo, a search icon, a user profile icon labeled 'Emma', and a 'Logout' button. Below the navigation bar, the page title 'Profile User' is displayed. A red confirmation dialog box is open, asking: 'You are going to **delete** your profile. Please note that this process is **IRREVERSIBLE**. Are you sure about it?'. The dialog has a red 'Yes, I am sure.' button and a close button (X). Below the dialog, there are three buttons: 'Password', 'Edit', and 'Delete'. The 'Delete' button is highlighted with a red circle and a red arrow pointing to it. Below the buttons, there are input fields for 'Name' (Emma) and 'Surname' (Moll).

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.

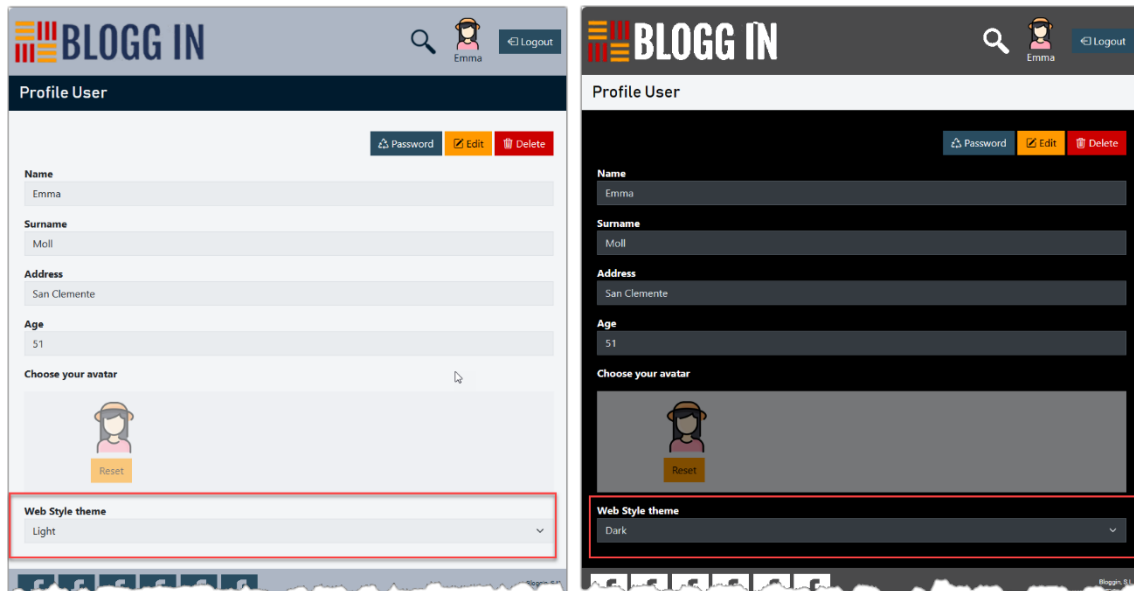


The four screenshots show the 'Reset Password' modal window with different error messages:

- First screenshot:** The modal is empty, showing the 'New Password' section with two input fields: 'Type de new password' and 'Type de new password again'. There is a 'Select' button at the bottom.
- Second screenshot:** The 'Type de new password' field has a red border and the error message 'Error: field required'.
- Third screenshot:** Both input fields have red borders and the error message 'Error: passwords must be identical'.
- Fourth screenshot:** Both input fields have red borders and the error message 'Error: Invalid password. It must be at least 8 digits long and must include at least one uppercase letter, one lowercase letter and one symbol.'

Theme

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



The image displays two side-by-side screenshots of the 'Profile User' page in the 'BLOGG IN' application. The left screenshot shows the 'Light' theme, and the right screenshot shows the 'Dark' theme. Both pages have a red box highlighting the 'Web Style theme' dropdown menu at the bottom.

Left Screenshot (Light Theme):

- Header:** BLOGG IN logo, search icon, user profile icon (Emma), and a Logout button.
- Page Title:** Profile User
- Actions:** Password, Edit, and Delete buttons.
- Form Fields:**
 - Name:** Emma
 - Surname:** Moll
 - Address:** San Clemente
 - Age:** 51
- Avatar:** Choose your avatar section with a user icon and a Reset button.
- Web Style theme:** A dropdown menu currently set to 'Light'.

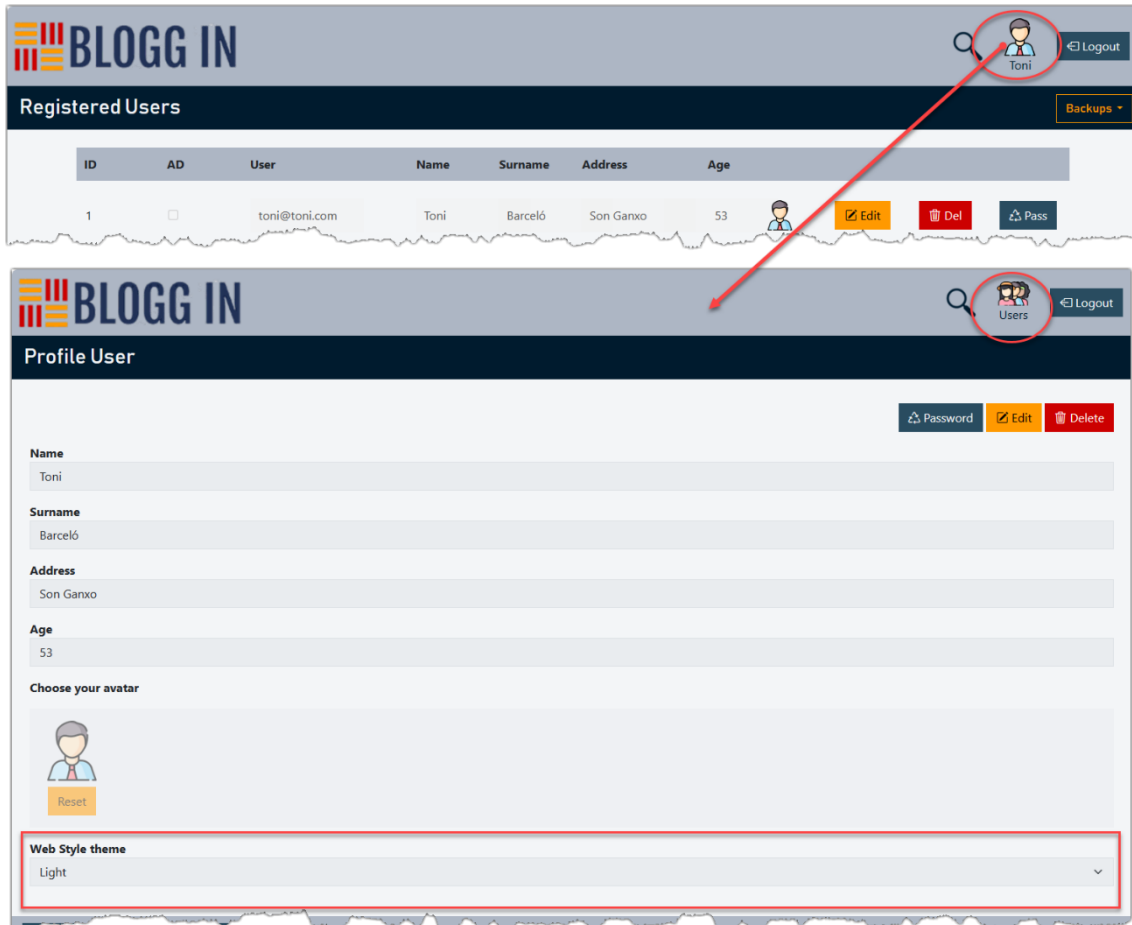
Right Screenshot (Dark Theme):

- Header:** BLOGG IN logo, search icon, user profile icon (Emma), and a Logout button.
- Page Title:** Profile User
- Actions:** Password, Edit, and Delete buttons.
- Form Fields:**
 - Name:** Emma
 - Surname:** Moll
 - Address:** San Clemente
 - Age:** 51
- Avatar:** Choose your avatar section with a user icon and a Reset button.
- Web Style theme:** A dropdown menu currently set to 'Dark'.

General

Change theme user admin tartor

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.



Registered Users

| ID | AD | User | Name | Surname | Address | Age | | | | |
|----|--------------------------|---------------|------|---------|-----------|-----|--|----------------------|---------------------|----------------------|
| 1 | <input type="checkbox"/> | toni@toni.com | Toni | Barceló | Son Ganxo | 53 | | Edit | Del | Pass |

Profile User

[Password](#) [Edit](#) [Delete](#)


Name
Toni

Surname
Barceló

Address
Son Ganxo

Age
53

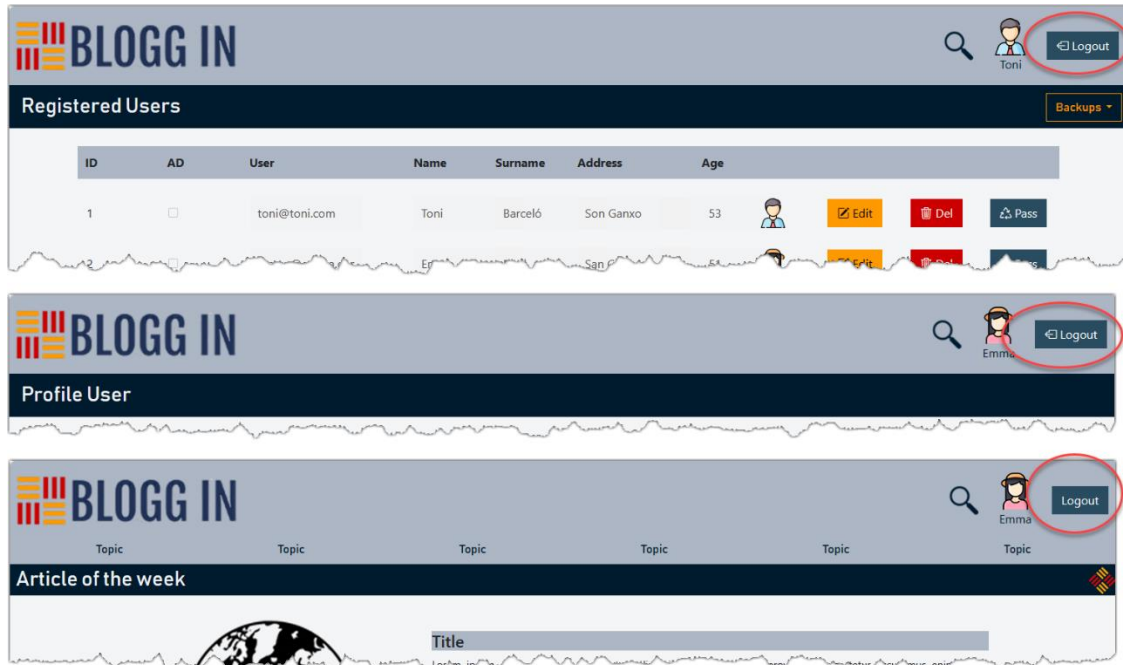
Choose your avatar

 [Reset](#)

Web Style theme
Light

Logout

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



The first screenshot shows the 'Registered Users' page. The user 'Toni' is logged in, and the 'Logout' button is circled in red. The table below lists registered users:

| ID | AD | User | Name | Surname | Address | Age |
|----|--------------------------|---------------|------|---------|-----------|-----|
| 1 | <input type="checkbox"/> | toni@toni.com | Toni | Barceló | Son Ganxo | 53 |
| 2 | <input type="checkbox"/> | Emma | Emma | San | | |

The second screenshot shows the 'Profile User' page for Emma. The 'Logout' button is circled in red.

The third screenshot shows the 'Article of the week' page. The 'Logout' button is circled in red.