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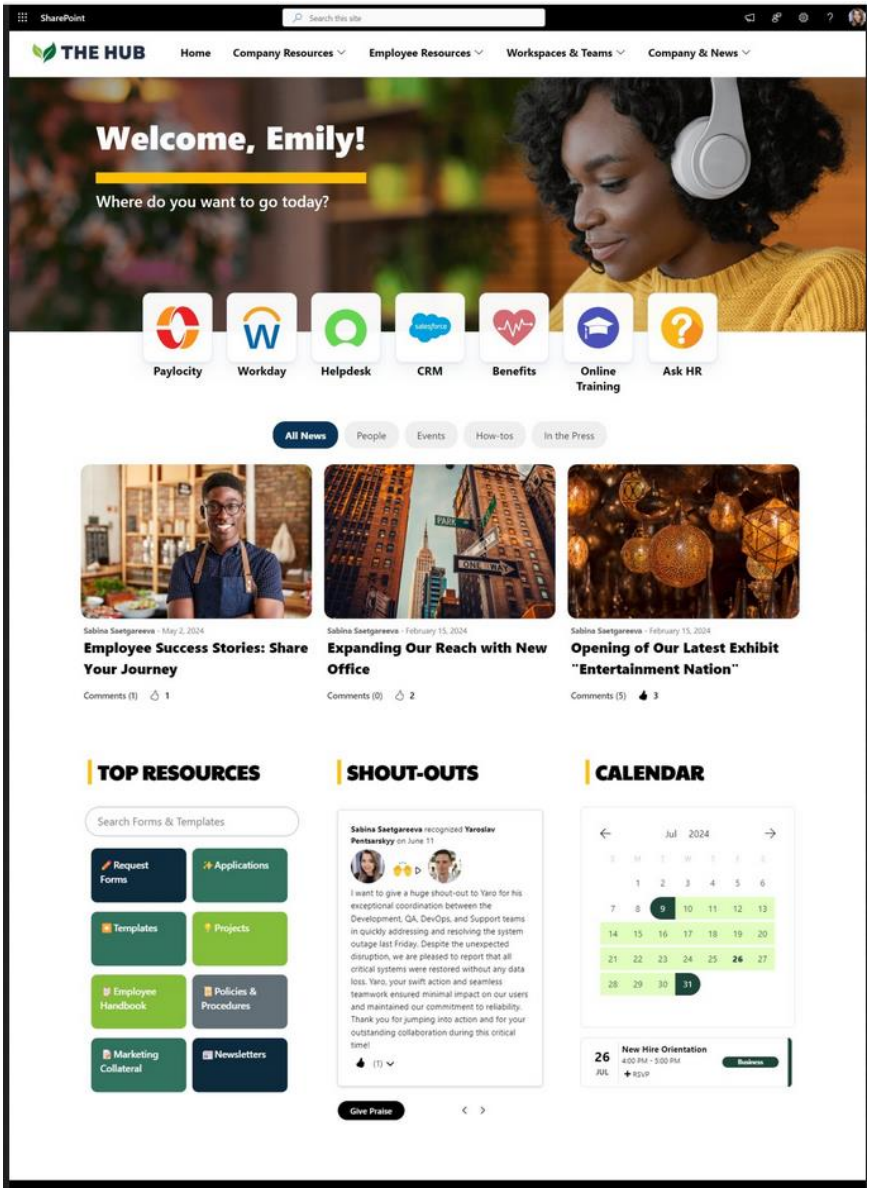
PROJECT 2 – News Portal Website (30 Points)

Project:

The project in the subject "Web Programming" for the 2024/2025 school year is to create a News Portal Website.

It is necessary that the home page shows listed news/news and that a calendar is visible where older news can be found.

An example of one such website:



The project needs to be implemented using the following technologies:

- Angular (if you do HTML5 yourself without the Angular framework, the maximum number of points you can earn is 20)

- HTML skeleton - 2 points
- Using HTML 5 - 3 points
- CSS (CSS + global style with defined theme must be done for each component) - 5 points
- JavaScript (JS or TS for each component must have sorted imports, inserted functionalities if any) - 5 points
- PHP scripts for CRUD operations with the database - 5 points
- Dependency injection within a service in an angular project - 5 points
- MySQL database according to models from angular applications with min 20 records per table - 5 points
- XAMPP/WAMP or LAMP for Linux.
- Upload to GitHub

Create a web application, where the student has the option of choosing any topic (e.g. library, cinema, show biz news, games reviews, etc.).

No other form of framework for the mentioned web technologies may be used to create the application.

The web application should be able to work with at least two types of users. A standard user with limited privileges and a system administrator. All users should be able to log in to the system. The user has the option to continue working with the rest of the system after entering the data correctly. In case of incorrect data, display an appropriate message.

In addition to logging into the system, the user should be able to change their password and register on the home screen, in case the user is new to the system.

Registration should allow entering the following data:

- Name,
- Last name,
- Username,
- Code,
- Password confirmation,
- Email.

The system administrator should be able to review incoming requests, and the outcome may be acceptance or rejection of the request. When changing the password, it is necessary to, in addition to entering

username and password, the user also enters a new password. If the username does not exist or the password is incorrect, an appropriate message should be displayed. When the password is successfully changed, the user returns to the system login screen.

After successfully logging into the system, depending on the selected web application theme, the user needs to be enabled to work with the data recorded in the database.

Enable a tabular display of data from the database, whereby it is necessary to enable the logged-in user, depending on the assigned rights, to perform basic manipulations of data in the table (CRUD – Create, Insert, Update, Delete).

Design the application to have a uniform appearance using CSS. Each page should contain a menu and a header (header and footer). On all screens where the desired content is displayed, a return to the home screen with user options should be enabled.

The application should keep track of user sessions (which user is logged into the application), and it is also necessary to enable a link on all screens that leads to the initial login screen (option: Log out).

Perform the necessary client-side validation on all forms used for data entry, using JavaScript.

Using JavaScript, print an error if the wrong password is entered during login.

Add an event listener - if the user clicks on a field in the form (which requires mandatory input) and does not enter anything, print an error (eg as in the image below).

On the page where you will implement tabular printing of data from the database, it is necessary to implement the possibility of filtering them via JavaScript (do not create new queries to the database, filter already loaded data on the web page.)

Notes:

- The project in the Web Programming course is done independently.
- The project is evaluated with 30 points.
- The project CANNOT be defended after the final exam date.
- The deadline for project submission is**09.01.2025. until 23:59h**.
- All projects sent after 09.01.2025. they will be able to score a maximum of 15 points.
- All projects must be packaged (zipped) and named as WP_2_name_surname,
- (for example WP_2_selena_kurtic) and send to**selena.kurtic@yahoo.com** with subject **WP_2_first_last name**until it is**09.01.2025. until 23:59h.**
- All projects are exiting**January 10, 2025 at 3 p.m.**
- Only students who have a valid reason (they reported on time WHY they cannot present) will be given a date when they can present their project.
- All incomplete projects, incorrectly named projects, and projects submitted after the specified time will not be reviewed. The requirement for taking the final exam is to submit Project 1 and Project 2.
- Projects that are done in another program or by someone else will receive 0
- (zero) which he will not be able to fix until the end of the 2024/2025 school year.
- If the student decides not to do the project, he cannot take the final exam.
- The project can be defended in the last week of classes or at another time before the final exam (possibly during the exam period) in agreement with the subject professor, only for students with a valid reason WHY they could not attend the planned project defense.
- The student is required to upload the complete project to GitHub, and submit a link to their website via email along with the zipped complete project (project+base).

Important!

- At the oral defense of the project, the student must independently install all the necessary programs necessary for the correct operation of the submitted solution (if they are not already installed in the computer center).
- The student is required to check before defending the project whether his/her link to the posted page is working correctly, and to have a backup version of it ready.
- The student must possess the necessary level of knowledge about the task, must be aware of the shortcomings of the provided solution and the ability to resolve these shortcomings.

- The student must also correctly answer a certain number of questions that deal with the topic of the project itself. If any of the functionalities does not work during the defense itself, the student may be asked to correct such an error (if it is a minor error).
- It is necessary to bring a database filled with data that allows for an overview of all application functionalities to the defense, otherwise -5 points will be deducted.
- It is necessary to use images/photos and valid text, not placeholders and lorem ipsum text.