



PROJECT: FULL STACK ANGULAR TO DATABASE CLIENT SIDE
(CONNECTED TO NODEJS SERVER)
SPECIFICATION DOCUMENT

The project's target

- Managing my shifts in my various jobs.
- Create an administrator side that can manage the shifts of all the workers.
- Management of hours by workplace.
- Generate reports and statistics according to various filters.
- Create a responsive page suitable for desktop and cell phones screens.

Goals

- Connecting to a REST api server using angular.
- Writing client side with angular.
- Working in a team.

The app will work in the following environments

- Internet environment.
- Suitable for tablets and smartphones.

Infrastructures

- Angular
- html
- css
- js

Each developer will work on another mode of the client side. When you submit the project please specify the role you chose:

- A. The administrator mode
- B. The regular worker mode

In the final phase you will connect with each other to gain a full working web application.



Architectural and Technological Requirements

Regular Worker - Developer A

Flowchart Application Usage

Registration page (1/2 day)

- Email - An email field in an email format (Mandatory).
- Password - (at least 6 characters long).
- Password Confirmation - must be the same as the first inserted password.
- First name - including at least 2 characters or more.
- Last name - including at least 2 characters or more.
- Birth Date - the derived age must be between 6 and 130.
- Register button - Clicking on the register checks that all conditions are true and the data is saved via the server.
- After a successful registration, the user will go to the home page, which includes a top bar menu.

If the user forgets the password, he can reset it. But resetting the password at this point will delete all user data.

Error message types

- Username and password are too short.
- A username must contain letters, numbers and a character that is neither a letter nor a number.
- If the input is inserted correctly, the data is saved via the server.

Login Page (1/2 day)

The user will open the app with a link to a password registration screen that will be saved via the server. The user will be asked to put user information that will be saved via the server for 60 minutes.

Login page content

- username input - (at least 6 characters long) will be saved via the server.
- password input - (at least 6 characters long) will be saved via the server.
- login button - after clicking the login button, the data is saved via the server.



Home Page (1 day)

- Top navbar menu that will contain
 - The company logo
 - Navigation Buttons:
 - i. My Shifts page
 - ii. Add a shift page
 - iii. Editing profile page
 - The right part of the item will display Hello - Username
 - Log out
- The body of the homepage will contain statistics components about the shifts:
 - Component that shows the upcoming shift.
 - Component that shows this week's past shifts.
- At the bottom of the table will be a presentation of the month in which you earned the highest earnings.

My Shifts Page (1 day)

- A table that shows all the shifts with the following column names. Clicking on a shift will navigate you to the edit a shift page.
 - i. Date
 - ii. Beginning time
 - iii. End time
 - iv. Price per hour
 - v. Shift place
 - vi. Total profit per shift
- Search options according to two parameters
 - Shift place
 - From date to date



Adding a Shift Page (1 day)

Page Content:

- Date Selection Button
- Start time - Start time selection button
- End time - End time selection button
- Hourly wage - textbox
- Workplace - dropdown list
- Shift name (unique name)
 - Each shift has a unique name. The user will be notified if the name already exists and the user will have to choose a new name.
- Comments - textarea
- Save button - After pressing the save button there will be a rotating progress bar.

The data is saved via the server.

Editing a Shift Page (1/2 day)

Page Content Editing a Date Shift is similar to add a shift:

- Date Selection Button
- Start time - Start time selection button
- End time - End time selection button
- Hourly wage - textbox
- Workplace - dropdown list
- Shift name (unique name)
 - Each shift has a unique name. The user will be notified if the name already exists and the user will have to choose a new name.
- Comments - textarea
- Save button - After pressing the save button there will be a rotating progress bar.

The data is saved via the server.



Profile Editing Page (1/2 day)

On this page the user will be able to edit his details.

The page includes the following:

- The following fields with the same validation as the registration page:
 - Email
 - Password
 - Password Confirmation
 - First name
 - Last name
 - Birth date
- Update button - Clicking on the update checks that all conditions are true and the data is saved via the server.
- After a successful update, the user will go to the home page.

Administrator - Developer B

Flowchart Application Usage

Registration page (1/2 day)

same registration page of regular workers.

Login Page (1/2 day)

same login page of regular workers.

Home Page (1 day)

- Top navbar menu that will contain:
 - The company logo
 - Navigation Buttons
 - All Shifts page
 - All workers page
 - Log out
- The body of the homepage will contain statistics components about the workers:
 - Component that shows the worker of the month (the one with most shifts).



- Component that shows this week's past shifts with the worker name.
- At the bottom of the table will be a presentation of the month in which you earned the highest earnings (summary of all the workers).

All Shifts Page (1/2 day)

Some of the logic in this page is also written by developer A on his side. You may and should use his feature and add the relevant content.

- A table that shows all the shifts of all the workers with the following column names (Clicking on a shift will navigate you to the edit a shift page)
 - Worker name
 - Date
 - Beginning time
 - End time
 - Price per hour
 - Shift place
 - Total profit per shift
- Search options according to three parameters:
 - Worker name
 - Shift place
 - From date to date

All Workers Page (1 day)

A table that shows the profiles of all the workers with the following column names

(Clicking on a worker will navigate you to edit its profile page). The following fields with the same validation in the registration page of a regular worker:

- Email
- Password
- Password Confirmation
- First name
- Last name
- Birth date





Worker Profile Editing Page (1/2 day)

On this page the user will be able to edit his details

The page will include the following:

- The following fields with the same validation in the registration page of a regular worker:
 - Email
 - Password
 - Password Confirmation
 - First name
 - Last name
 - Birth date
- Filter Shifts button - Will navigate you to the filter shifts page of this worker.
- Update button - Clicking on the update checks that all conditions are true, and the data is saved via the server.
- Delete Worker button - Removes the worker via the server.
- After a successful update/deletion, the user will go to the home page.

Filter Shifts Of A Single Worker Page (1 day)

- A table that shows all the shifts of the chosen worker with the following column names:
 - Worker name
 - Date
 - Beginning time
 - End time
 - Price per hour
 - Shift place
 - Total profit per shift
- Search options according to two parameters
 - Shift place
 - From date to date



The development will be done in the following order:

Developer A - Regular User:

- Register page - 1/2 day
- Login page - 1/2 day
- Home page - 1 day
- My Shift page - 1 day
- Add Shift page - 1 day
- Edit Shift page - 1/2 day
- Profile editing page - 1/2 page

Developer B - Administrator:

- Register page - 1/2 day
- Login page - 1/2 day
- Home page - 1 day
- All shifts page - 1/2 day
- All workers page - 1 day
- Worker Profile Editing Page - 1/2 day
- Filter shifts of a single worker - 1 day

Total: 5 days

Upon completion please submit the project in the LMS for us to review.

Good luck!