



SILESIAIAN UNIVERSITY OF TECHNOLOGY
FACULTY OF AUTOMATIC CONTROL, ELECTRONICS AND
COMPUTER SCIENCE

Internet Technologies – project work

Moody web

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1. Introduction

Moody web is a website application dedicated to control robotic arm model. IT project is combined with SM project. We want to include on our website sections like:

- Main site – with basic control panel of the robot and statistics.
- Login page – to give access only for admins and trusted people.
- About project page – site with information about project
- Developers page – site with brief information about us
- Stats and diagnostic page – site with basic statistics and diagnostics

Main purpose of website like we said is to control robotic arm through online website, with desktop resolution and mobile phone resolution. It means that we want to do responsive website. With basic control comes basic simulations, that's why we also want to add them to visualize basic moves of robot. Additionally we want to implement database with basic move sequences and in future add new ones by user interface on MoodyWeb.

Communication with robot will be by ESP8266 wifi module integrated on Arduino, by today we don't know how to communicate with the module.

Whole page will be hosted on Github pages and our work can be viewed live everyday. By checking repository: [TheKureq/UniversityProject](https://github.com/TheKureq/UniversityProject) Website: [This is a university project including website \(github.com\)](https://the-kureq.github.io) you can observe source code everyday.

Link for hosted page: [UniversityProject \(the-kureq.github.io\)](https://the-kureq.github.io)

This part should contain approx. 1 page.

2. Aim and scope of the project – work in progress

Describe the aim and scope of the project and how the results may be used. Determine the requirements of the hardware or software needed for the project.

Exemplary stages of the project may include the following:

- Identification of the problem and formulation of assumptions.
- Analysis of possible solutions, along with selection criteria.
- Selection on the basis of established criteria and reasons for such solution.
- Implementation of the project.
- Start-up, verification and tests of the applications.
- Outline the possible directions of development of the project.
- Conclusions.

This part should contain approx. 1-2 page.

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3. Schedule

3.1. Schedule approved at the beginning

Week 3:

- Learning the basics of website development (Html + Css)
- Github repository initialization

Week 4:

- Learning the basics of website development (Html + Css)
- Building basic structure of project website (navigation etc.)

Week 5:

- Learning the basics of website development (Html + Css + Php + Sql)
- Creating database and login system (Php)

Week 6:

- Learning the basics of website development (Js)
- Adding custom made graphics to the website
- Preparing animations and graphic design, basic vector objects

Week 7:

- Including responsive design for website

Week 8:

- Working on a simple robot controlling section (Js)
- Working with database, creating move sequences (optionally)

Week 9:

- Improving website appearance
- Providing wireless connection from website to board

Week 10:

- Checking everything and fixing mistakes
- Adding text content, photos for gallery etc.

Week 11:

- Improving website with additional functionalities (online hosting, privacy politics, ssl certificate, domain)
- Improving website with additional functionalities (sql database for move sequences, working with Arduino communication improvement, online host)

3.2. Schedule reflecting actual work

Week 3: - as planned

- Learning the basics of website development (Html + Css)
- Github repository initialization

Week 4: - as planned

- Learning the basics of website development (Html + Css)
- Building basic structure of project website (navigation etc.)

Week 5: - as planned

- Learning the basics of website development (Html + Css + Php + Sql)
- Creating database and login system (Php)

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4. Software and/or hardware implementation (correct section title)

WEEK 3:

1. Learning basic of website development (html + css + sass)

At first we were doing some courses on udemy including frontend part of website development. Where we have learned basics like building structure in html, styling site using css and sass, we prepared files for work, and basic variables like colors.

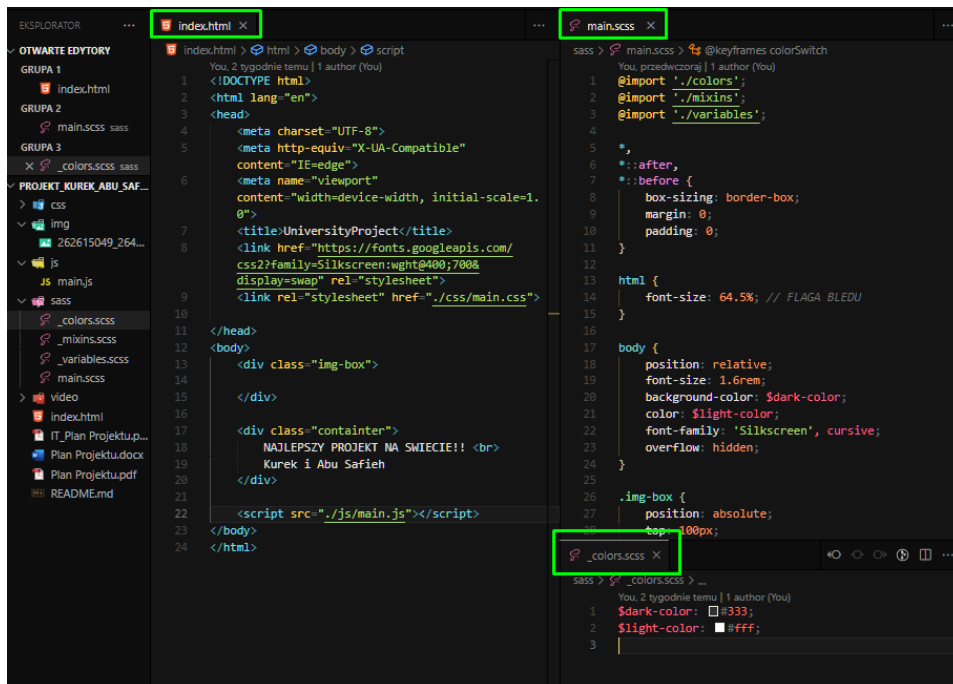


Figure 1: file structure and pieces of code examples

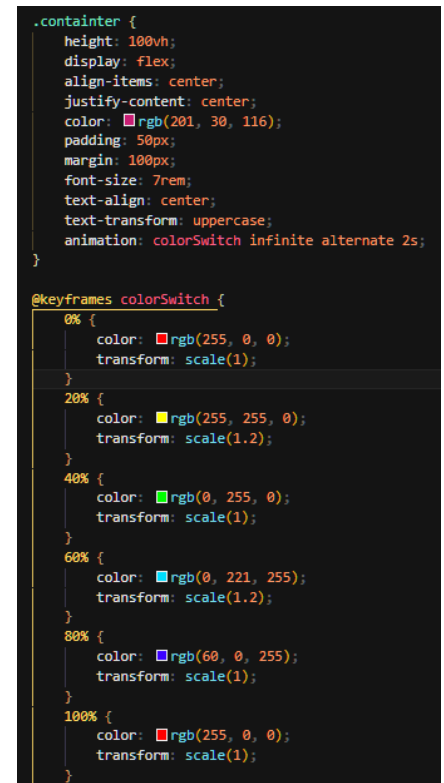


Figure 2: learning basic animations

2. Github / Git repository initialization

Whole page is hosted on Github pages and our work can be viewed live everyday. By checking repository: [TheKureq/UniversityProject](https://github.com/TheKureq/UniversityProject) Website: [This is a university project including website \(github.com\)](https://www.thekureq.com/) you can observe source code everyday.

Link for hosted page: [UniversityProject \(thekureq.github.io\)](https://www.thekureq.com/)

By learning git we can upload our files in around 10sec for repository by typing 3 commands in visual studio terminal:

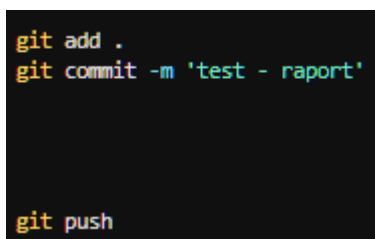


Figure 3: terminal git comments to push changes to repository on Github

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3. Working with courses.

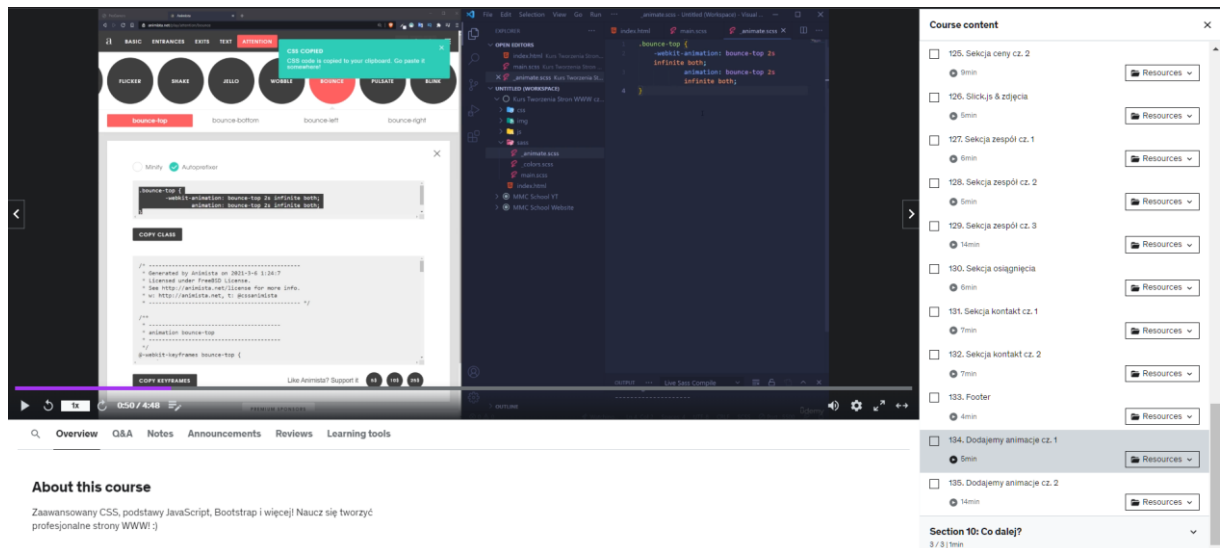


Figure 4: Doing course on udemy - working with animations

WEEK 4:

1. Constructing the basics structure of Moody Website.

For the 2nd week we were planning to construct the website. And we did so. We created the files and basics of every subpage we want to implement in later work. Also we made our logo and the HOMEPAGE. We also styled it all out using Css. The whole process took a lot of time because of making everything symmetric and evened out. We created navigation and footer that will be used in every subpage. We implemented and created simple animations that are used for navigation section. Additionally we decided on website main design.

This week we also started to prepare for the next week since we will implement database to our website and we studied SQL and PHP in hope that everything will go smoothly next week.

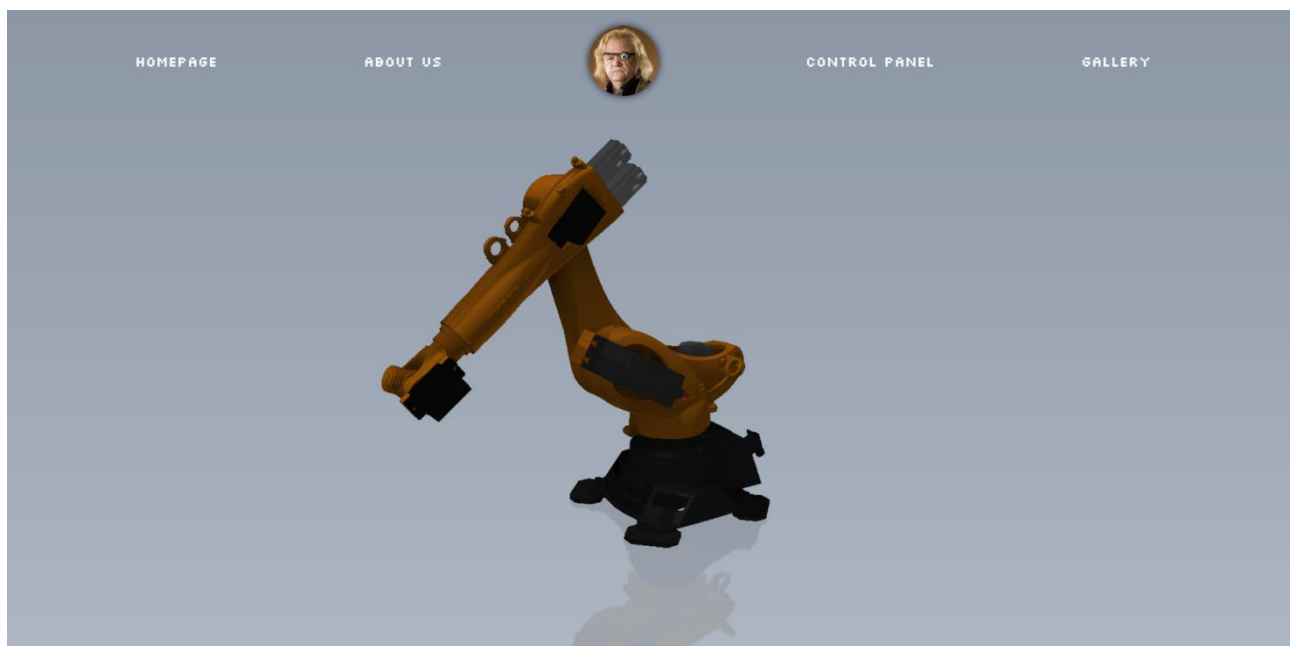


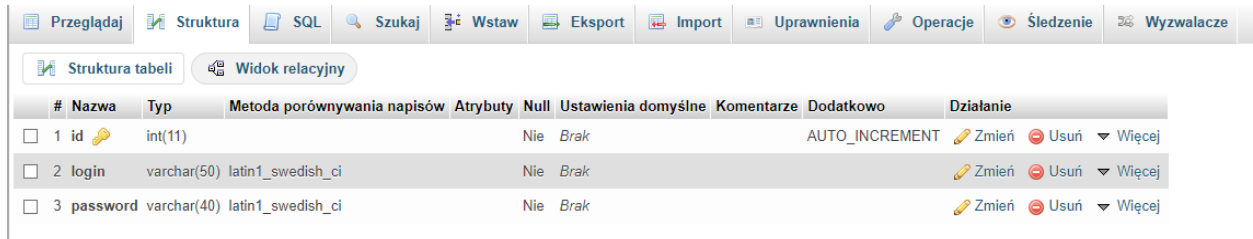
Figure 5: First version of Moody Website

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WEEK 5:

1. Constructing simple Login menu to access Control Panel

For the 3rd we were planning to construct a SQL database to connect with our website for Log In function. We did that and additionally we made some design features to show that we are either logged in or logged out. Whole function was made in PHP language. We constructed very small database with just one LOGIN informations since we only want the designers to control the robot.



The screenshot shows a database management interface with a table structure view. The table has three columns: 'id' (int(11)), 'login' (varchar(50)), and 'password' (varchar(40)). The 'id' column is marked as a primary key and has an 'AUTO_INCREMENT' attribute. The 'login' and 'password' columns are marked as 'Nie Brak' (Not Null). The interface includes various menu items like 'Przeglądaj', 'Struktura', 'SQL', 'Szukaj', 'Wstaw', 'Eksport', 'Import', 'Uprawnienia', 'Operacje', 'Śledzenie', and 'Wyzwalacze'.

#	Nazwa	Typ	Metoda porównywania napisów	Atrybuty	Null	Ustawienia domyślne	Komentarze	Dodatkowo	Działanie
1	id	int(11)			Nie	Brak		AUTO_INCREMENT	Zmień Usuń Więcej
2	login	varchar(50)	latin1_swedish_ci		Nie	Brak			Zmień Usuń Więcej
3	password	varchar(40)	latin1_swedish_ci		Nie	Brak			Zmień Usuń Więcej

Figure 6: SQL database

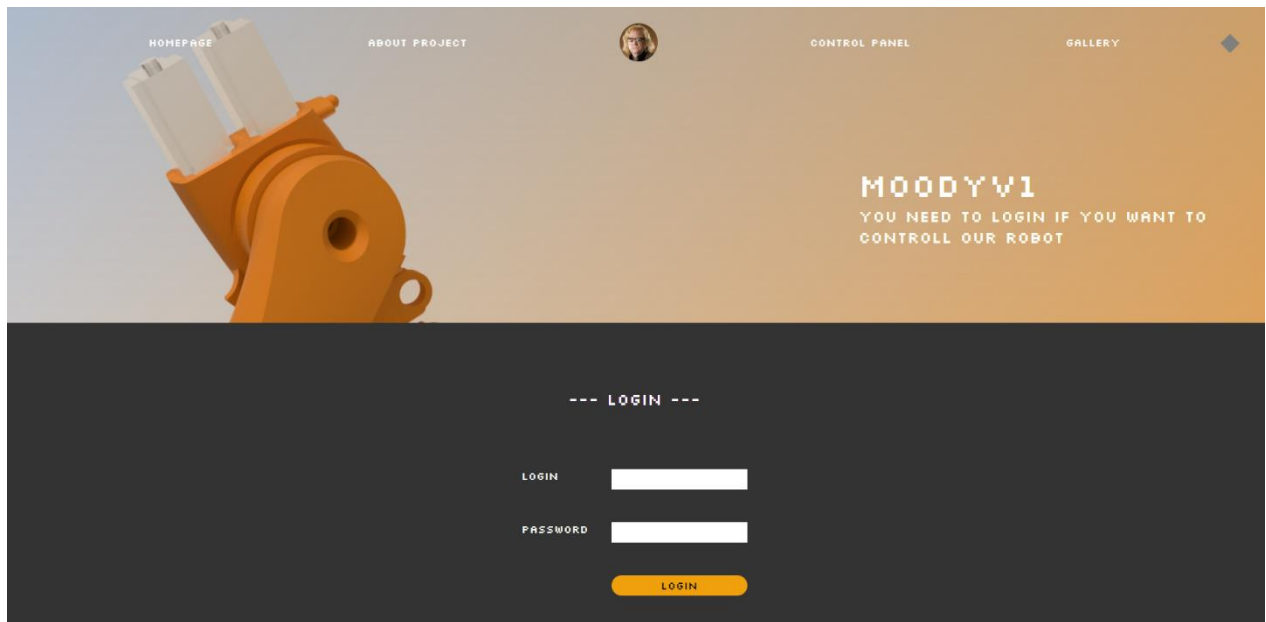


Figure 7: Login panel

Unfortunately we run into some problems with Github hosting. It just wasn't working there and we will have to do everything on a localhost and maybe in the future we will make our website work on a normal hosting that we rent for free.

2. Changing the website

Since we had some additional days and also a free week this time we change our website design completely. We added simple JS script and also a contact section in the bottom of a website. We made everything look more "clean".

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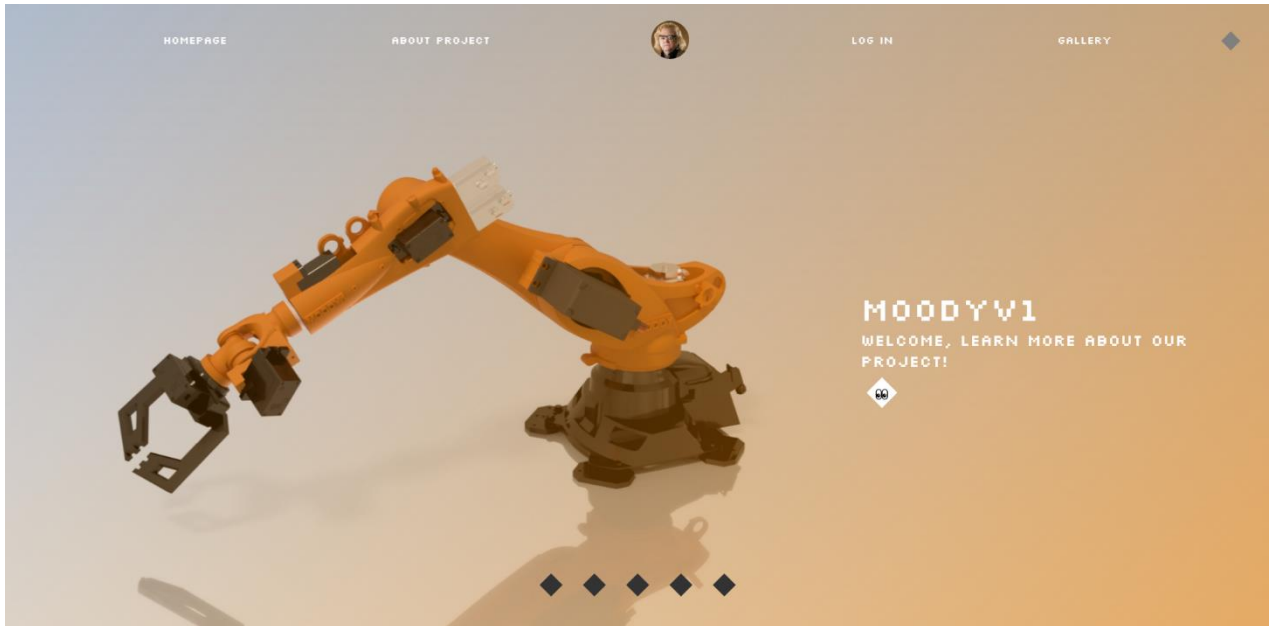


Figure 8: Second version of Moodie Website

3. Working with github

Additionally we are learning some git functions and version control skills. We added some branches with different versions of website. This specific feature can provide us a possibility to work independently on different features / subpages in the same time and at the end of the day merge those branches. That way of working together definitely speed up working together. Like we said above we still have to learn how to do sql and php working on github pages host.

5. Summary - work in progress

The last point should describe what have been done, or what part of the assumptions was not carried out and why, what can be added / changed to improve the project and in which direction it can be further developed.

6. Literature - work in progress

It is required to reference the used literature/other sources of information, e.g. like this [1]. If anywhere were adopted drawings, texts, part of the program code, you must put this information in the list of references, and use a link in the text pointing to a position in the given literature [2].

1. Last name, first name, title, publisher, year of publication.
2. Website URL, with the date of download.

Note 1: The titles of the sections are only exemplary - do not adopt them literally!

Note 2: Full program code with possible database content, other supporting files and a description of the installation and requirements for the installation have to be delivered in an electronic form, together with the electronic version of this report! Provided software and given description should enable a test installation of the project. If the software and/or related environment are not

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standard, and it can make difficulties to test the project, then it should be clearly described and justified!