A Ilica 242, HR-10000 Zagreb
T (01) 2222 182
E student@algebra.hr
www.algebra.hr

ALGEBRA

STANDARDS IN INTERNET TECHNOLOGY APPLICATION

Project specification

Create a website that presents Algebra University College.

The website has the following characteristics:

- (**LEARNING OUTCOME 1 and 2**)

  Contains the always visible menu bar with the following links:

  - Login/Logout
  - Home
  - About us
  - News
  - Curriculum
  - Contact

- (**LEARNING OUTCOME 2**)

  Use responsive design so that the website displays correctly on desktop and mobile devices.

- (**LEARNING OUTCOME 1**)

  The parameters of the contact form are sent to the address:

  https://www.fulek.com/mvc/supit/project-contact-form

  The contact form contains parameters of the following names:

  - FullName
  - Email
  - Importance
  - ReceiveNewsletter
  - Message

- (**LEARNING OUTCOME 3**)

  Chapter **Curriculum** can be seen only by users that have been logged in.

- Access points:
  - **Login** (POST)

    https://www.fulek.com/data/api/user/login

    Data required for login are **`username`** and **`password`**.
  - **Register** (POST)

    https://www.fulek.com/data/api/user/register

    Data required for registration are **`username`** and **`password`**.

- Secured access points that deliver course data require a JWT token, which is delivered to the client upon successful login:
  - **All courses** (GET):

    https://www.fulek.com/data/api/supit/curriculum-list/en
  - **Individual course** (GET) (i.e. course with `id` 5):

    https://www.fulek.com/data/api/supit/get-curriculum/5

    NOTE: following data is available for each course:
    - *„id“ – unique number identifier*
    - *„course“ – course name*
    - *„ects“ – number of ECTS points for the course*
    - *„hours" – number of hours for the course*
    - *„lectures“ – number of lectures for the course*
    - *„exercises" – number of workshops for the course*
    - *„type“ – course type: „Obavezni“ (obligatory) or „Izborni“ (elective)*
    - *"semester" – course semester number*
- Courses are searched via *autocomplete* fields

- Choosing a course shows the details of the course
- Selected courses can be removed from the table, updating the total values

Evaluate the justification for the use of JavaScript software frameworks on the request basis and in case it is justified, implement the solution.
Design should cover all the displayed elements to achieve the maximum number of points

- Attractive design
- Background video animations
- Display pictures via image gallery (*lightbox, fancybox...*) (**LEARNING OUTCOME 4**)
- Chapter animations at the time of display
- Use modal dialog boxes (your own or external *(jQueryUI, Bootstrap, etc.)*) (**LEARNING OUTCOME 4**)

Based on the requirements, you should evaluate the justification for the use of jQuery, jQueryUI and Bootstrap library elements and in case it is justified, implement the solution.
Students can create an identical website as in the presented template or make their own design with the displayed elements implemented.
All the materials (text, pictures, video...) needed to create the project are present on Infoeduka.

Libraries of type Vue, React, Angular, etc. must not be used to create the project.

You can view the recorded template of the finished project here:
https://tinyurl.com/SUPIT2022

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PROJECT SUBMISSION METHOD

The student must send the archived project to the e-mail address of the lecturer (full-time students) or assistant (part-time students) in the form of **FirstnameLastname.zip** **2 days before the exam period** (e.g. *if the exam period is 15.02. the project task must be sent no later than 12.02 - 23h:59min:59sec*)

Students who do not submit a completed project task within the set deadline cannot access the defense of the project.

Until the term of defence, the project may be refined.

ASSESSMENT

The maximum grade **excellent**, can be obtained by students who defend their work on the first exam period (both appointments in February).

The maximum grade **very good**, can be obtained by students who defend their work on the second exam period (July).

The maximum grade **good**, can be obtained by students who defend their work on the autumn exam term (both appointments in September).

DISTRIBUTION OF POINTS

Learning Outcome 1

Minimum outcome — create an html document structure using generic grouping elements — **15 points**.

Desired outcome – create an html document structure using semantic html elements using

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id and class attributes to further clarify the structure - **10 points**.

Learning Outcome 2

Minimum outcome – visually adjust the website interface according to technical specification - **15 points**

Desired outcome – to distribute page elements through CSS, apply CSS transitions and transformations for the purpose of enriching the overall visual impression, and apply the CSS queries for the responsiveness of the interface at different resolutions – **10 points**.

Note: if a student resolves responsiveness by using external JavaScript libraries (learning outcome 4 – bootstrap grid) he or she can get maximum points of the desired learning outcome 2.

Learning Outcome 3

Minimum outcome – retrieve and display data from a server script using JavaScript — **15 points**.

Desired outcome – retrieve and display data according to the default specification using external JavaScript libraries — **10 points**.

Learning Outcome 4

Minimum outcome – define the appearance of the elements of the website by using external JavaScript and CSS libraries – **15 points**.

Desired outcome – define the appearance, functionality and responsiveness of the website using external JavaScript and CSS libraries – **10 points**.

Note: if a student solves responsiveness by using his own CSS queries (learning outcome 2) he can get maximum points.