# Homework: Routing, Templating and lodash.js

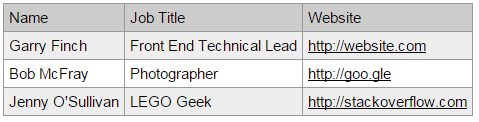
This document defines the homework assignments from the ["JavaScript Applications" Course @ Software University](https://softuni.bg/trainings/coursesinstances/details/11). Please submit as homework a single zip / rar / 7z archive holding the solutions (source code) of all below described problems.

## Routing

Create a web page that has a list Names. Every name in that list is a link that changes the URI of the page by adding to the path the name value. E.g. when you click on the name 'Sam' the URI becomes (http://localhost/#/Sam), when you click on 'Bob' the URI becomes (http://localhost/#/Bob). Using Sammy.js, catch the changes of the root URI and call a function that shows the following message in a <h2> tag "Hello, Sam" or "Hello, Bob" according to the URI.

## Templates

Using Mustache or Handlebars as a templating library. Create a table that holds 3 columns: Name, Job Title and website. Fill the table automatically using the templating library of your choice by creating an array of objects or using parse.com to retrieve data.



## Students Collection

Using lodash.js, perform the following operations on the **student** **collection** given below:

* Get all students with **age** between **18** and **24**
* Get all students whose **first name** is **alphabetically before** their **last name**
* Get **only the names** of all students from **Bulgaria**
* Get the **last five students**
* Get the **first three students** who are **not from Bulgaria** and are **male**

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| **Students Array** |
| [{"gender":"Male","firstName":"Joe","lastName":"Riley","age":22,"country":"Russia"},  {"gender":"Female","firstName":"Lois","lastName":"Morgan","age":41,"country":"Bulgaria"},  {"gender":"Male","firstName":"Roy","lastName":"Wood","age":33,"country":"Russia"},  {"gender":"Female","firstName":"Diana","lastName":"Freeman","age":40,"country":"Argentina"},  {"gender":"Female","firstName":"Bonnie","lastName":"Hunter","age":23,"country":"Bulgaria"},  {"gender":"Male","firstName":"Joe","lastName":"Young","age":16,"country":"Bulgaria"},  {"gender":"Female","firstName":"Kathryn","lastName":"Murray","age":22,"country":"Indonesia"},  {"gender":"Male","firstName":"Dennis","lastName":"Woods","age":37,"country":"Bulgaria"},  {"gender":"Male","firstName":"Billy","lastName":"Patterson","age":24,"country":"Bulgaria"},  {"gender":"Male","firstName":"Willie","lastName":"Gray","age":42,"country":"China"},  {"gender":"Male","firstName":"Justin","lastName":"Lawson","age":38,"country":"Bulgaria"},  {"gender":"Male","firstName":"Ryan","lastName":"Foster","age":24,"country":"Indonesia"},  {"gender":"Male","firstName":"Eugene","lastName":"Morris","age":37,"country":"Bulgaria"},  {"gender":"Male","firstName":"Eugene","lastName":"Rivera","age":45,"country":"Philippines"},  {"gender":"Female","firstName":"Kathleen","lastName":"Hunter","age":28,"country":"Bulgaria"}] |

## Book Store

You are given an array of books. Using Underscore.js, perform the following operations:

* **Group** all books by **language** and **sort** them by **author** (if two books have the same author, sort by **price**)
* Getthe **average book price** foreach **author**
* Get all books in **English** or **German**, with **price** below **30.00,** and **group** them by **author**

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| --- |
| **Books Array** |
| [{"book":"The Grapes of Wrath","author":"John Steinbeck","price":"34,24","language":"French"},  {"book":"The Great Gatsby","author":"F. Scott Fitzgerald","price":"39,26","language":"English"},  {"book":"Nineteen Eighty-Four","author":"George Orwell","price":"15,39","language":"English"},  {"book":"Ulysses","author":"James Joyce","price":"23,26","language":"German"},  {"book":"Lolita","author":"Vladimir Nabokov","price":"14,19","language":"German"},  {"book":"Catch-22","author":"Joseph Heller","price":"47,89","language":"German"},  {"book":"The Catcher in the Rye","author":"J. D. Salinger","price":"25,16","language":"English"},  {"book":"Beloved","author":"Toni Morrison","price":"48,61","language":"French"},  {"book":"Of Mice and Men","author":"John Steinbeck","price":"29,81","language":"Bulgarian"},  {"book":"Animal Farm","author":"George Orwell","price":"38,42","language":"English"},  {"book":"Finnegans Wake","author":"James Joyce","price":"29,59","language":"English"},  {"book":"The Grapes of Wrath","author":"John Steinbeck","price":"42,94","language":"English"}] |