**Homework**

Task 1:

Go through the source code of one of the following projects:

* Angular JS
* React JS
* Backbone JS
* Your final EPAM project

Identify JavaScript patterns that are used in the project. Describe how they are used (write comments that describe how the code works). Provide sample code excerpt from the project as a JavaScript file (it is not expected that the code will be executable). For extra points, create UML diagrams that demonstrate the patterns you find in the project.

Sample code excerpt and UML diagrams should be placed in folder **hwPatterns** in your EPAM git repository.

Evaluation:

* Level 1: List several patterns used in the project.
* Level 2: All criteria from Level 1 + make sure that you list all of the patterns from the project.
* Level 3: All criteria from Level 2 + describe how all of the patterns are used (comment the code to make it clear how the pattern works).
* Level 4: All criteria from Level 3 + UML diagrams for each pattern found in code (how it used specifically in the project).

Task 2:

Develop your own framework using as much as possible patterns. The framework should satisfy next criterias:

* support routing
* support independent modules

Evaluation:

* Level 1: select main architectural pattern and describe in words how other patterns will be applied
* Level 2: create UML diagram to show how all patterns will work together
* Level 3: app based on framework has at least 2 "Hello world!" modules are implemented based on planned diagrams and there is possibility to build communication between modules
* Level 4: app based on framework is SPA and has at least 2 routes