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| Assignment 1 | | Project Summary | | |
| Course | | Fullstack Application Development with Node.js + Express.js + React.js - 2017 | | |
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| Project author | | | | |
| № | First name, last name | | E-mail | Face-to-face/ online |
| 1 | Ilian Stamenov | | ilstamenov@gmail.com | face-to-face |

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| Project name | JS - Judge System |

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| * Short project description (Business needs and system features) |
| JS - Judge System is a system where users could write unit tests, have others solve problems and run the solutions against the unit tests The system will be developed as a *Single Page Application (SPA)* using ***React.js*** as front-end, and ***Node.js + express*** as backend technologies.  The main user roles (actors in UML) are:  • *Unregistered* User– can add new problems with unit tests and solve others' problems |
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| * Main Use Cases / Scenarios | | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| * **Create problem** | Creates a problem with a description and unit tests. | Unregistered |
| * **Submit Solution** | *Anonymous User* can submit their solution for testing. | *Anonymous User* |

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| * Main Views (SPA Frontend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * **Home** | A home page will have small description and a prompt to go to the creation page. | / |
| * **Create problem** | A page where user will define a problem and unit tests. | */create* |
| * **Solve problem** | A page where user will define a solution and submit it. | */solve/{problemId}* |

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| * API Resources (Node.js Backend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * **Problem** | GET problem. | */api/problem/{problemID}* |
| * **Problem** | POST submit solution to a problem. | */api/problem/{problemID}* |
| * **Problem** | POST submit a new problem | */api/problem/add* |