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| Assignment 1 | | Project Summary | | |
| Course | | Fullstack Application Development with Node.js + Express.js + React.js - 2018 | | |
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| Project author | | | | |
| № | First name, last name | | E-mail | Face-to-face/ online |
| 1 | Antoan Andonov | | antoan.andonov@yahoo.com | face-to-face |

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| Project name | Online System for Pet’s Information |

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| 1. Short project description (Business needs and system features) |
| The system will provide an additional information about different pets and their habits. The Users will manage their own pets and ask a different questions in the topics. In addition it allows users to register, and administrators to manage the system. 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:  • *Anonymous User* – can only read the information try to suggest an idea;  • *Registered User* – can rate, approve ideas, comment, follow other users;  • *Administrator* (extends *Registered User*) – can manage CRUD(Create, Read, Update, Delete) operations |

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| 1. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| * 1. **Browse** | The *User* can browse the information views and propose an articles. | All users |
| * 1. **Register** | *Anonymous User* can register in the system by providing a valid e-mail address, first and last name, and choosing password.  *Anonymous User* can read the news and proposals, and he can suggest an idea for some topic. | *Anonymous User* |
| * 1. **Change User Data** | *Registered User* can view and edit his personal *User data*. | *Registered User* |
| * 1. **Add an article** | *All users* can write an articles, but only registered can approve it. | *All users* |
| * 1. **Manage Pets** | *Registered User* can browse his *Pets*, add/edit/delete a new *Pet.* | *Registered User, Administrator* |
| * 1. **Rating** | *Registered User* can rate articles. | *Registered User, Administrator* |

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| 1. Main Views (SPA Frontend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Home** | Home page with primary sections. | / |
| * 1. **Articles** | Presents ability to manage (CRUD) Articles and their data. | */articles* |
| * 1. **Article Detail** | Details for the specified article. | */articles/{articleId}* |
| * 1. **Pets** | Presents ability to manage (CRUD) Pets and their data. | */pets* |
| * 1. **Pet Detail** | Details for the specified pet. | */pets/{petId}* |
| * 1. **Users** | Presents ability to manage (CRUD) Users and their data. | */users* |
| * 1. **User ID** | Details for the specified user. | */users/{userId}* |

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| 1. API Resources (Node.js Backend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Users** | GET, PUT, POST, DELETE *User Data* for all users, and POST new *User Data*. Available only for *Administrators and Registered Users*. | */api/users* |
| * 1. **User** | GET, PUT, POST, DELETE *User Data* for *User* with specified *userId* (according to specified *role*). | */api/users/{userId}* |
| * 1. **Pets** | GET, PUT, POST, DELETE *Pets Data* for all pets, and POST new *Pet Data* (according to specified *role*)*.* | */api/pets* |
| * 1. **Pet** | GET, PUT, POST, DELETE a Pet with specified *petId* (according to specified *role*). | */api/pets/{petId}* |
| * 1. **User’s pets** | GET, PUT, POST, DELETE *all Pets for current user* (according to specified *role*). | */api/users/{userId}/pets* |
| * 1. **User’s pet** | GET, PUT, POST, DELETE *a current Pet* (according to specified *role*)*.* | */api/users/{userId}/pets/{petId}* |
| * 1. **Articles** | GET, PUT, POST, DELETE all *info* articles (according to specified *role*). | */api/articles* |
| * 1. **Help me** | GET, PUT, POST, DELETE a specified article (according to specified *role*). | */api/articles/{articleId}* |