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| Assignment 1 | | Project Summary | |
| Course | | Fullstack Application Development with Node.js + Express.js + React.js - 2020 | |
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| Project author | | | |
| № | Pseudonym | | Face-to-face/ online |
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| Project name | Travellers |

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| 1. Short project description (Business needs and system features) |
| The Internet age has changed the way we travel around the world and planning the trip. **Travellers is web-based application** andprovides the functionality users can share their trips and experiences by tips and pictures. And, vice versa, Also helps users to get information for places they want to visit, provided by another users.  “Have a nice trip! And share your tips and pics!”  The system will be developed as a *Single Page Application (SPA)* using ***React.js*** as front-end, and ***Node.js + express*** as backend technologies. Each view will have a distinct URL, and the routing between pages will be done client side using ***React Router***. The backend will be implemented as a ***REST/JSON API*** using JSON data serialization. The main user roles (actors in UML) are:  • *Anonymous User* – can only view the information about trips and related information (tips and pictures)  • *User* - can create, update and delete trips and and related information (tips and pictures). Can view all the trips in system. Can filter trips by country, city and date.  • *Administrator* – can manage (create, edit user data and delete) all users. Can delete trips and related information (tips and pictures) |

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| 1. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| * 1. **Browse information about trips** | All users can browse data about trips and related tips/ | 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.  *Administrator* can register new by entering *User Data*. | *Anonymous User, Administrator* |
| * 1. **Change User Data** | *Registered User* can view and edit her personal *User Data*.  *Administrator* can view and edit *User Data* of all *Users*. | *Registered User, Administrator* |
| * 1. **Manage Users** | *Administrator* can browse and filter users based on different criteria: first and last name.  *Administrator* can create and delete users. | *Administrator* |
| * 1. **View trips** | All users can view other users’ trips. | *Administrator,*  *User,*  *Anonymous User* |
| * 1. **Manage trips** | User can create, edit or delete his own trips.  *Administrator* can browse all trips, related tips and pictures. Can delete them. | *User, Administrator* |
| * 1. **View tips** | All users can view all tips for selected trip. | *Administrator,*  *User,*  *Anonymous User* |
| * 1. **Manage tips** | User can create, edit or delete tips for his own trip.  *Administrator* can browse and delete them. | *Administrator,*  *User,* |
| * 1. **View pictures** | All users can view pictures for selected trip. | *Administrator,*  *User,*  *Anonymous User* |
| * 1. **Manage pictures** | User can create or delete pictures for his own trips.  *Administrator* can browse and delete them. | *Administrator,*  *User,* |

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| 1. Main Views (SPA Frontend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Home** | Presents the introductory information for the purpose of the system as well as detailed instructions how to start using it. Prominently offers ability to register. | / |
| * 1. **Trips** | Presents available trips. Offers abilities to filter, browse, choose, create, read, update, delete (CRUD) trips according to user roles. | */trips* |
| * 1. **Trip** | Presents available information about the selected trip. Provides functionality to read, update or delete trip and related information(tips and pictures) according to user roles. | */trip* |
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| * 1. **User Registration** | Presents a view allowing the *Anonymous Users* to register in *the system*. | */register* |
| * 1. **Login** | Presents a view allowing the users to login. | */login* |
| * 1. **User Data** | Presents ability to view and edit personal *User Data* according to user roles. | */user* |
| * 1. **Users** | Presents ability to manage (CRUD) Users and their User Data (available for *Administrators* only). | */users* |
| * 1. **About** | Presents information about the project and his owner. | */about* |

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| 1. API Resources (Node.js Backend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Users** | GET *User Data* for all users, and POST new *User Data*. Available only for *Administrators*. | */api/users* |
| * 1. **User** | GET, PUT, DELETE *User Data* for *User* with specified *userId*. | */api/users/{userId}* |
| * 1. **Login** | POST *User Credentials* (e-mail address and password) and receive a valid *Security Token* to use in subsequent API requests. | */api/login* |
| * 1. **Logout** | POST a logout request for ending the active sessionand invalidating the issued *Security Token*. | */api/logout* |
| * 1. **Trips** | GET all trips registered in the system and POST new *trip*, according to user roles. *Accordingly user roles.* | */api/trips* |
| * 1. **Trip** | GET, PUT, DELETE *trip with specified tripId. Accordingly user roles.* | */api/trips/{tripId}* |
| * 1. **Tips** | GET tips for trip with specified tripId. POST tip for trip using specified tripId. *Accordingly user roles.* | */api/tips/{tripId}* |
| * 1. **Tip** | GET, PUT, DELETE *tip* with specified *tipId*. *Accordingly user roles.* | */api/tips/{tipId}* |
| * 1. **Pictures** | GET images for trip using specified tripId. POST image for trip using specified tripId. *Accordingly user roles.* | */api/images/{tripId}* |
| * 1. **Picture** | GET, DELETE *image with specified imageId .Accordingly user roles.* | */api/images/{imageId}* |
| * 1. **Country** | GET *all countries. This information will be used for filtering, creating and editing trips*  *Available for all users* | */api/countries* |
| **4.12 City** | GET *all countries. This information will be used for filtering, creating and editing trips*  *Available for all users* | */api/countries/{countryId}/cities* |