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| Assignment 1 | | Project Summary | | |
| Course | | Full-stack Development with Node.js and React.js - 2016 | | |
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| Project author | | | | |
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| Project name | Ads Listing System |

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| 1. Short project description (Business needs and system features) |
| The **Ads Listings Site** (ALS) provides users the ability to view and create a listing by category and location. Users can register and login to view advertisements or create their own.  Anonymous user can view all advertisements.  Administrators can register and manage users and their data.  The system will be developed as a *Single Page Application (SPA)* using ***React.js*** as front-end, and ***Node.js + hapi*** as backend technologies and MongoDB as database.  The main user roles (actors in UML) are:  • *Anonymous User* – can only view all advertisement without registration.  • *Registered User* (extends *Anonymous User*) – can login/edit profile and be able to create/update/delete his own advertisement.  • *Administrator* (extends *Registered User*) – can manage (create, edit and delete user data) all *Registered Users*, as well as *manage category and locations* |

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| 1. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| * 1. **Browse all advertisement** | The Anonymous *User* can browse all data and filter them by title, category and location. | All users |
| * 1. **Register** | *Anonymous User* can register in the system by providing a valid e-mail address and choosing password.  *Administrator* can register new by entering *User Data* and choosing a Role (*Registered User*, or *Administrator*). | *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* and assign them *Role*: *Administrator*. | *Registered User, Administrator* |
| * 1. **Manage Users** | *Administrator* can browse and filter users based on email, Role.  *Administrator* can choose a *User* to manage, and can manage the chosen User - edit (using Change User Data UC) or delete.  *Administrator* can create a new user using *Register UC*. | *Administrator* |
| * 1. **Manage Ads** | *Registered User* can Browse, *Add new, Edit and Delete* her *Ads*.  *Administrator* can browse ads of all *Registered User*, edit and delete them. | *Registered User, Administrator* |
| * 1. **Manage Category/Location** | *Administrator* can Browse, *Add new, Edit and Delete Category* | *Administrator* |

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| 1. Main Views (SPA Frontend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Home** | Show welcome screen and also ability to login or register. | / |
| * 1. **Ads** | Presents list of all ads available according to *User's Role* and identity. Offers abilities to create, read, update, delete (CRUD). | */ads* |
| * 1. **Ads Details** | Presents ability to view ads detail page | */ads/adId* |
| * 1. **User Profile** | Presents ability to view and edit personal *User Data*, as well as deregister from *ALS*. | */personal* |
| * 1. **Admin Users** | Presents ability to manage (CRUD) Users and their User Data (available for *Administrators* only, as described in UCs). | */admin/users* |
| * 1. **Category/Location** | Presents ability to manage (CRUD) Category and their Data (available for *Administrators* only). | */admin/category* |
| * 1. **About** | Presents information about the *ALS* 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* and entity is returned as result from POST request). Available only to *Administrators*. | */api/users* |
| * 1. **User** | GET, PUT, DELETE *User Data* for *User* with specified *userId* (Available to *Registered User and Administrators).* DELETE(Available only to *Administrators).* | */api/users/{userId}* |
| * 1. **Ads** | GET Ads (according to *User's Role* and identity) and POST new *Ads* (Id is auto-filled by *ALS* and modified entity is returned as result from POST request). | */api/Ads* |
| * 1. **Ads by Id** | GET ads by Id, and PUT, DELETE *ads Data* with specified *adId* (Available to *Registered User and Administrators).* | */api/Ads/{adsId}* |
| * 1. **Category** | GET list of *category*, PUT and POST (Available only to *Administrators*) | */api/categories/* |
| * 1. **Category by Id** | GET, PUT, DELETE *Category* (according to *User's Role* and identity) for *Test* with specified *testId* and *Test Result* with specified *testResultId.* | */api/categories{categoryId}* |