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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 |
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| Project name | Favourizer |

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| 1. Short project description (Business needs and system features) | | |
| With the growth of techologies users have access to images, videos and other web resources from various devices. **Favourizer** gives the user possibility to organize in one place its preferable images, videos, articles that access from different devices. 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 see other users public resources.  • *Registered User* – can organize its resources(add, remove, modify)  • *Administrator* – can manage (create, edit user data and delete) all *Registered Users*  • *Friend(same as Registered User)* – can *view public and private resources of its friends.* | | |
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| 1. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| * 1. **Browse profile information** | *Registered User* can browse the information view and edit its profile | *Registered User* |
| * 1. **Login** | *Registered* User can login with facebook or google account or with site account. | *Anonymous User* |
| * 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, Administrator* |
| * 1. **Change User Data** | *Registered User* can view and edit her personal *User Data*. | *Registered User* |
| * 1. **Manage Users** | *Administrator* can create a new user using *Register UC*.  *Administrator can delete user.* | *Administrator* |
| * 1. **Organize resources** | User can group resources by different criteria (image, video etc)  User can upload resource to permanent storage(e.g Google drive)  User can view resources from cloud (e.g Google drive) | *Registered User* |
| * 1. **Add/Edit Resource** | *User can add resources of different types(links, etc )*  *User can edit resource(e.g make it public/private )*  *User can remove resource.* | *Registered User* |
| * 1. **Manage friends** | *Registered User can add friend(other user) who can see private and public resources of the user*  *Registered User can remove friend.*  *Registered User can browse its friends resources.* | *Registered User* |

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| 1. Main Views (SPA Frontend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **Home** | Registered *User see its “Board”(place for user's resources), Anonymous User see others users public resources* | / |
| * 1. **Resources** | Presents resources of Registered *User*. Offers abilities to create, read, update, delete (CRUD). | */resources* |
| * 1. **User Data** | Presents ability to view and edit personal *User Data.* | */profile* |
| * 1. **Users** | Presents ability to manage (CRUD) Users and their User Data (available for Administrators only, as described in UCs). | */users* |
| * 1. Administrator | Administrator can control other users – show users, block user, delete inappropriate public resource | /admin |
| * 1. Login | Show login form | /login |
| * 1. Register | Show register form | /register |

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| 1. API Resources (Node.js Backend) | | |
| **View name** | **Brief Descriptions** | **URI** |
| * 1. **User** | GET, PUT, DELETE *User Data* for *Registered User* with specified *userId*. | */api/users/{userId}* |
| * 1. Users | GET Get all users | */api/users* |
| * 1. **User friends** | GET,POST users's friends by userId | */api/users/{userId}/friends* |
| * 1. **Add friend** | POST add friend | */api/users/{userId1}/friends* |
| * 1. Delete friend | DELETE Remove friend | */api/users/{userId1}/friends/{userId2}* |
| * 1. **Resource** | GET, PUT, DELETE Resource *Data* for Resource with specified *resourcesId*. | */api/users/{userId}resources/{resourceId}* |
| * 1. Modify resoruce visibility | PUT Make resource private or public | */api/users/{userId}resources/{resourceId}* |
| * 1. User resources | GET, POST users resources | */api/users/{userId}/resources* |
| * 1. **Filter resource by type** | Filter user resources by type(image, links, etc.) | *api/users/{userId}/resources?type={type}* |
| * 1. **Get private/ public resource** | GET all public or private resources of given user | *api/users/{userId}/resources?visibility={private|public}* |
| * 1. **Filter private/ public resource** | GET Filter resources by visibility(public/private) and type for given user | *api/users/{userId}/resources?visibility={private|public}&type={type}* |
| * 1. Register | POST Register user | /register |