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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 | | | | |
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| Project name | Trabit - The habit tracker |

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| 1. Short project description (Business needs and system features) |
| There are a lot of psychologists claiming that the habits have strong influence on our life and personal development. Old habits are hard to break and new ones are even harder to form. **Trabit** is a habit tracker which helps people with the process of changing their habits. It is a web application which provides you the functionalities of creating account, set habits, track your progress on the them and view useful statistics based on your progress. |

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| 1. Main Use Cases / Scenarios | | |
| **Use case name** | **Brief Descriptions** | **Actors Involved** |
| * 1. **Landing page** | The *User* can browse information about how the application works. The most used habits are suggested to him. | 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* |
| * 1. **Set habits** | *Registered User* can set his/her habits. | *Registered User* |
| * 1. **Manage habits** | Registered User can edit or delete the created habits | *Registered User* |
| **2.5. Habits dashboard** | Registered User can access his/her habits dashboard.  The dashboards presents historical and statistical data about each added habit. | *Registered User* |
| **2.6. Habit details** | Registered user can view more details for a specific habit | *Registered User* |
| **2.7. Habit groups** | *Registered user can create habits groups based on relations between the created habits. This way he can measure progress or view statistics on higher level.* | *Registered 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. **Dashboard** | Presents historical and statistical data about the set habits. Give the user the opportunity to mark a habit done for particular date. Also provides summarized statistics for habit groups. | */dashboard* |
| * 1. **Manage habits** | Gives the user the ability to create/edit/delete habits and define habit groups. | */habits* |
| * 1. **Habit details** | Presents the user detailed data about the tracking of a specific habit. | */habits/{id}* |
| **3.5. Manage profile** | Provides the ability to change user settings | */settings* |

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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* | */api/users* |
| * 1. **User** | GET, PUT, DELETE *User Data* for *User* with specified *userId*. | */api/users/{userId}* |
| * 1. **Habits** | GET habits(according to the logged user) and POST new *Habit* | */api/habits* |
| * 1. **Habit** | GET, PUT, DELETE *Habit* for *Habit* with specified habitId. | */api/habits/{habitId}* |
| **4.5. Habit groups** | GET Habit groups(according to the logged user) and POST new *Habit group* | */api/groups* |
| **4.6. Habit group** | GET, PUT, DELETE *Habit* group for *Habit* group with specified groupId. | */api/groups/{groupId}* |
| **4.7. Track habit** | POST habit activity for a particular date | */api/track* |
| **4.8. History** | GET the activity data for Habit with habitId for date | */api/history/{habitId}{date}* |
| **4.9 Habit statistics** | GET the statistics of the Habit with habitId - percent done in the last week/month/year, longest positive/negative streak | */api/statistics/{habitId}* |
| **4.9 Habit group statistics** | GET the statistics of the Habit with groupId - percent completed for the last week/month/year | */api/statistics/{groupId}* |