**List of requirements**

The list of the requirements for the project is below:

* Registration
* Encryption
* Authentication

**User requirements**

* + - 1. **Registration** – The users who have not yet registered should go through certain steps to be member.
* **Front-end**  - The user should be redirected to the page for registration.
* The VS code should be installed as it is the best tool for web development. (N . F)
* The obligatory packages should be installed. (N . F)
* **Personal data** – In order to register user should provide some information such as email, password.
* The entered information will go to server for being checked for suitability (F . R)
* Usernames must be unique (F . R)
* All shared personal information will be kept private and will not be shared with any third parties (N.F.)
* Modern WEB has adapted to HTTPS protocols, so the information is secured well (N . F)
* **Confirmation code**  - In order to be sure that the user does not cheat the confirmation code should be sent.
* To complete the registration. OTP (One-time password) should be send to the user. (F .R)
* The confirmation code should be sent almost imadiately or as fast as possible. (F. R)
* There should be a short deadline for OTP to provide security. (F . R)

1. **Encryption** – Ones the users submit their passwords, those passwords will be saved in the database in the way that third party users cannot read the passwords.

* **Mongoose Encryption –**  by using mongoose-encryption module of Node js the passwords will be encrypted ones they are submitted, and they will be stored in encryption form as well.

1. **Authentication** – Before accessing restricted area of the websites, the users will have to register or log in to the websites.

* **Front-end**  - The user should be redirected to the page for registration.
* The VS code should be installed as it is the best tool for web development. (N . F)
* The obligatory packages should be installed. (N . F)
* **Reading from database** – The data that users include should be compared with the user information in the database. The decription process of encrypted passwords should be done in the background.