**Explanations**

When I first read the requirements, I decided to use a Windows Forms App project, and then I saw that this type of project does not appear in the list (API, Console or Class Library project). For this reason I decided to create two projects: the first is a Windows Forms App project and the second is a Console App project.

I chose Windows Form App project because it offers the possibility of using a graphical interface.

I decided that the user, regardless of the project, should only add the user id, because the current date is obtained from the code. This user id is validated. I considered that a user id is valid if it has the length <= 6 and if it consists only of letters and numbers.

Taking into account the details of the problem, especially the fact that the password must be generated from the input and must be validated according to time, I decided to form a message by concatenating the user id and date time (between them I put the symbol "#"), then I encrypted the message. The encrypted message is the one-time password. For validation, I decrypted the message and splitted it after "#" to get the time and I calculated the difference between that date time and the current date time, and based on that the validity is established.

For testing I used Unit Testing.