

CLAIMS

1. A computer system for controlling exchange of data between different users of a project sharing data on a digital platform, the computer system comprising
 - a plurality of terminal devices (6a, 6b, 6c) connected to at least one system server (1) configured to receive input data from a user and to display output data to the user,
 - the at least one system server (1) including
 - a plurality of databases (3, 4, 5) comprising
 - at least one project database (5) configured to store project data which is data about the project, including performance parameters that evaluate the impact of a plurality of projects,
 - at least one project criteria database (4) configured to store requirements regarding a plurality of users for whom the project is intended, regarding agreeing to accept the project, providing services, and providing financing, as project criteria for a supply side of the plurality of users,
 - at least one basic criteria database (5) configured to store requirements for the plurality of users to agree to accept the project, provide the services, and provide the financing as basic criteria, which are demand-side criteria for the plurality of users' projects; and
 - a platform device (2) connected to the plurality of databases (3, 4, 5) storing profiles of users in a platform structure (21), the platform structure (21) including different layers (21-1, 21-2, 21-n) which are arranged in hierarchical order from a top layer to a bottom layer, wherein the user profiles are assigned to the different layers (21-1, 21-2, 21-n) depending on a type of the user, and the user profiles representing the project are assigned to a first layer (21-1, 21-2, 21-n) of the platform structure (21),
 - the platform device (2) configured to
 - receive the project data, the project criteria and the basic criteria of a user assigned to the first layer (21-1, 21-2, 21-n) from a first terminal device (6a, 6b, 6c),
 - transmit the received project criteria to the plurality of terminal devices (6a, 6b, 6c),
 - receive, from a second terminal device (6a, 6b, 6c), in response to the transmitted project criteria, a request of a user having a user profile assigned to a second layer (21-1, 21-2, 21-n) of the platform structure (21) to access the project

data, wherein the request includes at least one set of project criteria and at least one set of basic criteria of the user,

- compare the received sets of basic criteria and project criteria of the user assigned to the second layer (21-1, 21-2, 21-3) with the project criteria and the basic criteria of the user assigned to the first layer (21-1, 21-2, 21-n),

- permit the user of the second layer (21-1, 21-2, 21-n) to access the project data if the set of project criteria and the set of basic criteria of the user assigned to the second layer (21-1, 21-2, 21-n) match with a set of project criteria and a set of basic criteria of the user assigned to the first layer (21-1, 21-2, 21-n).

2. The computer system according to claim 1, wherein

the set of project criteria includes a first predetermined number of user requirements directed to the project, and the set of basic criteria includes a first predetermined number of project requirements directed to the user.

3. The computer system according to claim 1 or 2, wherein

each time the request to access the project data of the user having the user profile assigned to the second layer (21-1, 21-2, 21-n) is received by the platform device (2), the platform device (2) is configured to store project criteria included in the request in the project criteria database (4) and basic criteria included in the request in the basic criteria database (5).

4. The computer system according to at least one of the preceding claims, wherein the platform device (2) is configured to

compare a set of project criteria of a user assigned to the top layer (21-1) of the platform structure (21) with sets of project criteria of users assigned to one or more subsequent lower layers (21-2, 21-n), and

if a match is found between the set of project criteria of the user assigned to the top layer (21-1) and a set of project criteria of a user assigned to the one or more subsequent lower layers (21-2, 21-n),

compare the set of project criteria of the user assigned to the one or more subsequent lower layers (21-2, 21-n) with sets of user criteria of users assigned to one or more further subsequent lower layers (21-2, 21-n) until the bottom layer is reached, and

compare a set of basic criteria of a user assigned to the bottom layer (21-n) with sets of basic criteria of users assigned to one or more subsequent upper layers (21-1, 21-2), and

if a match is found between the set of basic criteria of the user assigned to the bottom layer (21-n) and a set of basic criteria of a user assigned to the one or more subsequent upper layers (21-1, 21-2),

compare the set of basic criteria of the user assigned to the one or more subsequent upper layers (21-1, 21-2) with sets of basic criteria of users assigned to one or more further subsequent upper layers (21-1, 21-2) until the top layer is reached, and

if users matching the project criteria are equal to users matching the basic criteria, permit access to the project data for said users.

5. The computer system according to claim 2, wherein

the platform device (2) is configured to determine a match of two sets of project criteria if a second predetermined number of user requirements of both sets are equal, wherein the second predetermined number of user requirements is less or equal to the first predetermined number of user requirements.

6. The computer system according to claim 2, wherein

the platform device (2) is configured to determine a match of two sets of basic criteria if a second predetermined number of project requirements of both sets are equal, wherein the second predetermined number of project requirements is less or equal to the first predetermined number of project requirements.

7. The computer system according to claim 5, wherein

the platform device (2) is configured to determine a match between the two sets of project criteria if a value of a third predetermined number of user requirements included in the two sets of project criteria corresponds in a predetermined range.

8. The computer system according to claim 6, wherein

the platform device (2) is configured to determine a match between the two sets of basic criteria if a value of a third predetermined number of project requirements included in the two sets of basic criteria corresponds in a predetermined range.

9. The computer system according to at least one of the preceding claims, wherein the platform device (2) is configured to

store a plurality of sets of project criteria of each user in the project criteria database (4) and a plurality of sets of basic criteria of each user in the basic criteria database (5),

arrange the sets of project criteria and basic criteria in the respective database in different layers (4-1 – 4-n, 5-1 – 5-n) depending on the type of the user in hierarchical order from the top layer to the bottom layer according to the platform structure (21).

10. The computer system according to at least one of the preceding claims, wherein the platform device (2) is configured to

store a plurality of sets of project data of each project in the project database (3),

arrange the sets of project data in the project database in different layers (3-1, 3-2, 3-n) according to the type of users requesting access to the project data in hierarchical order from the top layer to the bottom layer according to the platform structure (21).

11. The computer system according to at least one of the preceding claims, wherein

the platform device (2) is configured to transmit at least one predetermined set of project data to a terminal device (6a, 6b, 6c) of the user when access to the project data is permitted, wherein the predetermined set of project data corresponds to the type of the user.

12. The computer system according to claim 11, wherein

the platform device (2) is configured to transmit an updated set of the project data to the terminal device (6a, 6b, 6c) of the user when updated project data corresponding to the predetermined set of project data has been entered to the project database (3).

13. The computer system according to at least one of the preceding claims, wherein the system server (1) comprising the platform device (2) and the plurality of terminal devices (6a, 6b, 6c) are connected via a network (N) to a blockchain network (7) and wherein the data transmission between the platform device (2) and the terminal devices (6a, 6b, 6c) via the network (N) to the blockchain network (7) is encrypted.

14. The computer system according to at least one of the preceding claims, comprising:

- one or more computation units, and

- one or more data storage units, wherein the data storage units store one or more computer-program products which are configured to perform the functions of the platform device (21) according to at least one of claims 1 to 12.

5 15.A method for controlling exchange of data between different users of a project sharing data on a digital platform,

wherein a platform device (2) comprises a platform structure (21) including different layers (21-1, 21-2, 21-n) which are arranged in hierarchical order from a top layer to a bottom layer, wherein profiles of the users are assigned to the different layers (21-1,
10 21-2, 21-n) depending on a type of a user and user profiles representing the project are assigned to a first layer (21-1, 21-2, 21-n) of the platform structure (21), the method comprising the following steps

receiving, from a first terminal device, requirements for the project-oriented user with respect to agreeing to accept the project, providing services, and providing
15 financing, as project criteria from a supply side of the project, and the requirements for the user with respect to agreeing to accept the project, providing the services, and providing the financing, as basic criteria from a demand side of the project; and receiving, from the first terminal device, requirements with respect to the user with respect to agreeing to accept the project, providing the services, and providing the
20 financing, as criteria on the supply side of the project; and

- transmitting the received project criteria to a plurality of terminal devices (6a, 6b, 6c),

- receiving, from a second terminal device (6a, 6b, 6c), in response to the transmitted project criteria, a request of a user having a user profile assigned to a
25 second layer (21-1, 21-2, 21-n) of the profile structure (21) to access the project data, wherein the request includes a set of project criteria and a set of basic criteria of the user,

- comparing the received sets of basic criteria and project criteria of the user assigned to the second layer (21-1, 21-2, 21-n) with the project criteria and the basic
30 criteria of the user assigned to the first layer (21-1, 21-2, 21-n),

- permitting the user assigned to the second layer (21-1, 21-2, 21-n) to access the project data if the set of project criteria and the set of basic criteria of the user assigned to the second layer (21-1, 21-2, 21-n) match with a set of project criteria and a set of basic criteria of the user assigned to the first layer (21-1, 21-2, 21-n).

16. The method according to claim 15, comprising the further steps

- comparing a set of project criteria of a user assigned to the top layer (21-1) with sets of project criteria of users assigned to one or more subsequent lower layers (21-2, 21-n), and

if a match is found between the set of project criteria of the user assigned to the top layer (21-1) and a set of project criteria of a user assigned to the one or more subsequent lower layers (21-2, 21-n),

- comparing the set of project criteria of the user assigned to the one or more subsequent lower layers (21-2, 21-n) with sets of user criteria of users assigned to one or more further subsequent lower layers (21-2, 21-n) until the bottom layer is reached, and

- comparing a set of basic criteria of a user assigned to the bottom layer (21-n) with sets of basic criteria of users assigned to one or more subsequent upper layers (21-1, 21-2), and

if a match is found between the set of basic criteria of the user assigned to the bottom layer (21-n) and a set of basic criteria of a user assigned to the one or more subsequent upper layers (21-1, 21-2),

- comparing the set of basic criteria of the user assigned to the one or more subsequent upper layers (21-1, 21-2) with sets of basic criteria of users assigned to one or more further subsequent upper layers (21-1, 21-2) until the top layer (21-1) is reached, and

if users matching the project criteria are equal to users matching the basic criteria, permit access to the project data for said users.