


Project allocation

We developed a web application to support the project allocation process of the internship programmes of CEMS universities. Development was done within a research project of the Mechanism Design Research Group of the MTA-IE (Institute of Economics, Centre for Economic and Regional Studies of the Hungarian Academy of Sciences), see more at our website (<http://mechanismdesign.eu/>). We aimed to automate most of the processes, leaving the end users with the only task of describing their preferences. Allocation suggestions are created based on these preferences with the help of the appropriate matching algorithms.



RecomTrainee

E-mail address

Password

Sign In

The allocation for internship programmes in every year is handled separately for each university, that we call a “campaign”. Users are assigned to the campaigns and are allowed to update their preferences while the current campaign is active.

Users are identified by their e-mail addresses, and they can set and modify their basic properties. There are four different types of users, each with different privileges.

The **Administrator** can create, modify and delete any other entity from the database.

The university **Coordinators** are granted admin like privileges within the bounds of the campaigns that they are associated with. Coordinators can create, configure or delete students and company representative users manually or in bundle based on a simple excel sheet. They are also supported by our system admins, if necessary.

RecomTrainee Welcome, Admin User! 19:30

Coordinator Area Test Campaign 1 Students Institutions

Projects Companies List

Students

+ Create New...

Full name	E-mail address	Role
User, Student1	student1@user.com	Student
User, Student2	student2@user.com	Student
User, Student3	student3@user.com	Student

The **Student** users can set the preferred order of the companies in a give active campaign. They are only allowed to update their preferences between the starting and ending date of the campaign.

RecomTrainee Welcome, Student1 User! 19:14

Test Campaign 1 Campaigns 2018. 06. 28

Test Campaign 1

Campaign Preferences

Your preference Clear Reset Save

#1 Test Project 1
Test Company 1, (null) >

#2 Test Project 2
Test Company 1, (null) >

The **Company Representative** users are similar to students. Their main function is to evaluate the students during an active campaign. The representatives assign scores to the students instead of ordering them. They are also allowed to modify the details of the company that they represent.

The screenshot displays the 'RecomTrainee' web application interface. At the top, a dark header contains the logo 'RecomTrainee', a welcome message 'Welcome, Representative1 User!', and the time '19:57'. Below the header, a navigation bar shows 'Test Campaign 1' with a dropdown arrow, 'My Account', and the date '2018. 06. 28.' with a user profile icon and another dropdown arrow. The main content area features a large heading 'Test Campaign 1'. Below this, there are two tabs: 'Campaign' and 'Preferences', with 'Preferences' being the active tab. The section is titled 'Your preference' and includes a 'Refresh' button on the right. A message states 'Your changes will be saved automatically.' Below this, there are two preference items, each in a rounded rectangular box. The first item is labeled '5' and 'User, Student1', with a subtext 'This is the detailed information...'. The second item is labeled '7' and 'User, Student2', also with a subtext 'This is the detailed information...'. A vertical scrollbar is visible on the right side of the page.

The allocation suggestions are created within a few days after the campaign ends and are sent to the coordinator.

The application has a simple, clean user interface, that is optimised for different screen sizes. The administration process is further supported by a built in messaging system.

The current version of the application was built with different demands of the universities in mind. Further development plans include real time statistics and dashboards for the coordinators and immediate results by including the matching algorithms in the web application itself. We plan to include wide configuration options for the different campaigns, and we are prepared to include any special criterion that the coordinators find necessary.