




VERSION PHASE4

APRIL 17, 2017

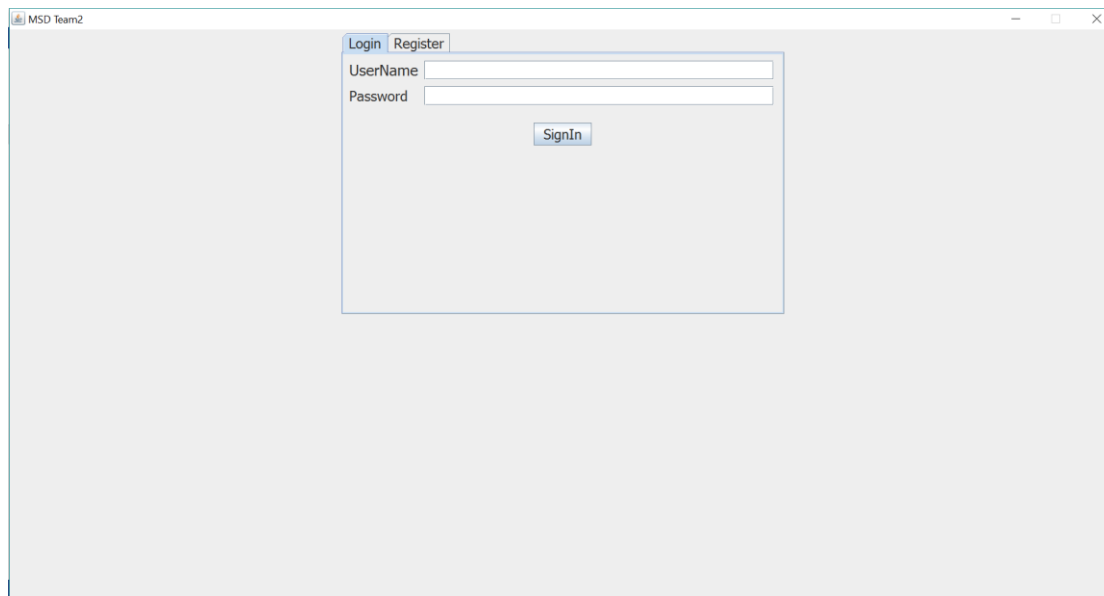
USER MANUAL

PRIYANKA HALESH
RUSHABH SHAH
SALONI SHAH
VIKAS JANARDHANAN



USER MANUAL

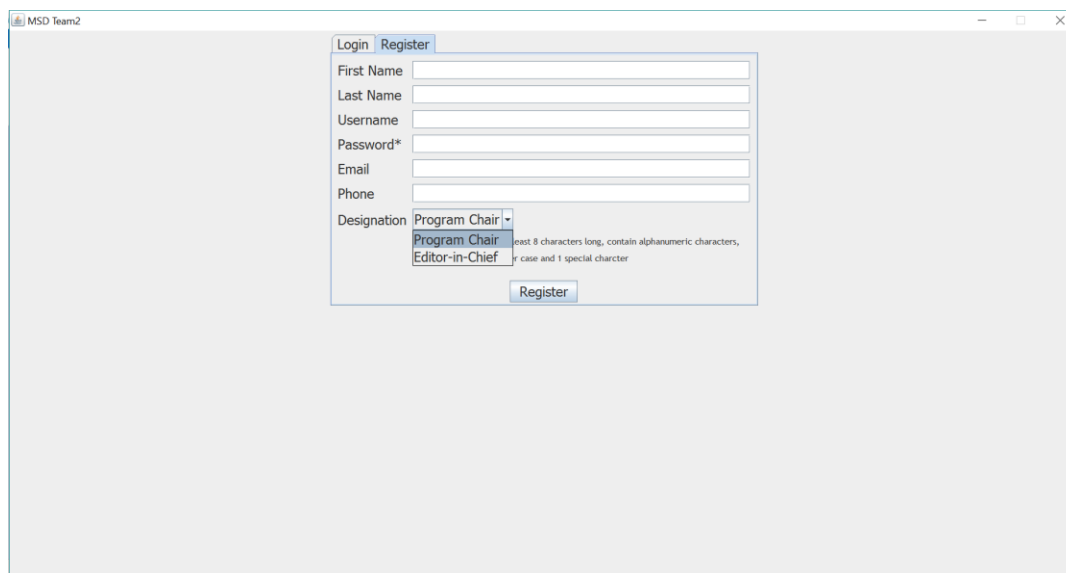
LOGIN



The screenshot shows a web application window titled "MSD Team2". It contains two tabs: "Login" (selected) and "Register". The "Login" form has two input fields: "UserName" and "Password". Below these fields is a "SignIn" button.

To login in to the system, user is required to have a valid username and password. Username is case insensitive.

REGISTER



The screenshot shows the "Register" tab of the "MSD Team2" application. The form includes the following fields: "First Name", "Last Name", "Username", "Password*", "Email", "Phone", and "Designation". The "Designation" field is a dropdown menu with "Program Chair" selected. Below the dropdown, there is a note: "least 8 characters long, contain alphanumeric characters, 1 case and 1 special character". A "Register" button is located at the bottom of the form.

All the fields shown in the screenshot above are mandatory for a successful registration. There are few requirements of some fields as below:

- Password: a valid password should be at least 8 characters long, contain alphanumeric characters, with 1 uppercase, 1 lower case and 1 special character

- Email: a valid email address should be of type abc@xyz.com form
- Phone: it can be of any length (since the number of digits in a phone number varies from country to country), but should be numbers only

SEARCH

Search Page provides all the search fields to the user. There two type of search parameters: Author and Paper. Author Parameters tab itself has two parts, Author and Committee.

Author Parameters:

The parameters which are related to an author, such as name, affiliated university, whether or not the author has served in committee before, etc. are all included in Author Parameters. Following is a brief description of the parameters:

- **Author:**
 - **Author Name:** Expected input for this field is first name and/or last name of an author. Since we are using entire DBLP data set, there are millions of records in author table, and hence we are restricting the input in author name to be at least 3 characters. We use like operator to find the author, and hence any partial valid author name will return results.
 - **School Name:** Expected input for this field is the school/university where the author has published his/her thesis. User can add more than one school name separated by commas. If more than one school name is entered, the system will fetch those authors who have done thesis in either one of them.
 - **Thesis Type:** This indicates the type of thesis author has written. It can be either Masters or PhD thesis.
 - **#Papers Published:** This indicates the total number of publications (conference and journals) made by an author. Expected input can be either an exact number, or range or start or end range number. If the user enters value in start range, it will find

authors who have published papers greater than or equal to mentioned number, If the user enters values in end range, it will find authors who have published papers less than or equal to mentioned number. If user enters in both start and end range, it will for authors who have published papers in that range.

- **Affiliated University:** This indicated the current university/school with which author is affiliated. Since each author can be affiliated with one university, it will expect only one name. We use like operator to find the affiliated university, and hence any partial valid name will return results.
- **Committee:**
 - **Served in Committee Before?** : This gives the option to the user to specify whether he/she wants authors who have served in any committee before or not. If user enters any values in the below two fields, Served in Committee Before? will be set to 'Yes'.
 - **Served in Year:** This gives the user the option to specify the year range, or either start or end range, of which year(s) the author was or was not on committee.
 - **For Conferences(s):** This provides the user the option to specify in which committee conferences the author was part of. Expected input is name of conferences (exact name) separated by comma. We use in operator to find the conferences.

Paper Parameters:

The screenshot shows a web application window titled "MSD Team2". It has a navigation bar with links: "Search", "Committee List", "Update Profile", and "Logout". Below the navigation bar, there are two tabs: "Author Parameters" and "Paper Parameters". The "Paper Parameters" tab is active. The form contains the following fields:

- Title:** A text input field.
- Keywords:** A text input field with placeholder text "enter keywords separated by comma".
- Year Of Publication:** Two text input fields labeled "start range" and "end range".
- Conference Name(s):** A text input field with placeholder text "enter names separated by comma" and a "View Conferences" button.
- Journal Name(s):** A text input field with placeholder text "enter names separated by comma" and a "View Journals" button.

At the bottom of the form, there are two buttons: "Search" and "Clear All".

- **Title:** This provides the user the option to search based on title of a paper. If the user knows what the exact title of paper is, he/she can enter here. The system will try and find an exact match for the specified title.
- **Keywords:** This provides the user the option to search for a paper with mentioned keyword(s). Expected input is a keywords separated by comma. If user enters more than one keyword, system will try and find papers in which all the mentioned keywords appear, irrespective of location of keyword in title.
- **Year of Publication:** This provides the user the option to search for publications within the mentioned start and/or end range. If the user enters value in start range, it will find all the papers which were published in that year or later. If the user enters value in end range, it

will find all the papers which were published in that year or before. If user enters value in both, it will consider it as a range.

- **Conference Name(s):** This provides the user the option to specify in which conferences the author has published papers. Expected input is name of conferences (exact name) separated by comma. We use in operator to find the conferences.
- **Journal Name(s):** This provides the user the option to specify in which journals the author has published papers. Expected input is name of journals (exact name) separated by comma. We use in operator to find the journals.

Search Results

On clicking Search button, the user is displayed with a list of author names as shown below. Along with this, user is provided two buttons: Shortlist Author and View Author Details. If the user selects an author, and clicks on 'Shortlist Author' button, the selected author will be added to the user's committee list. If the author was originally present in user's committee list adding will fail and appropriate message will be shown. If user selects an author and clicks on 'View Author Details', the details of the author (as explained next) will be shown.

MSD Team2

Search Committee List Update Profile Logout

Author Parameters Paper Parameters

Author

Author Name

School Name

Thesis Type ☐ Masters ☐ PHD

#Papers Published ☐ Exactly ☐ Range

Affiliated University

Committee

Served in Committee Before? * Yes ☐ No ☐

Served in Year start range end range

For Conference(s) [View Conferences](#)

Author Name

Dave A. Thomas

Dave Thomas

Martyn Thomas

Thomas A. Henzinger

Thomas Ball

Thomas Dillig

Thomas Ellman

Thomas Fritz

Thomas Gross

Thomas J. Ostrand

Thomas P. Jensen

Thomas R. Gross

Thomas W. Reps

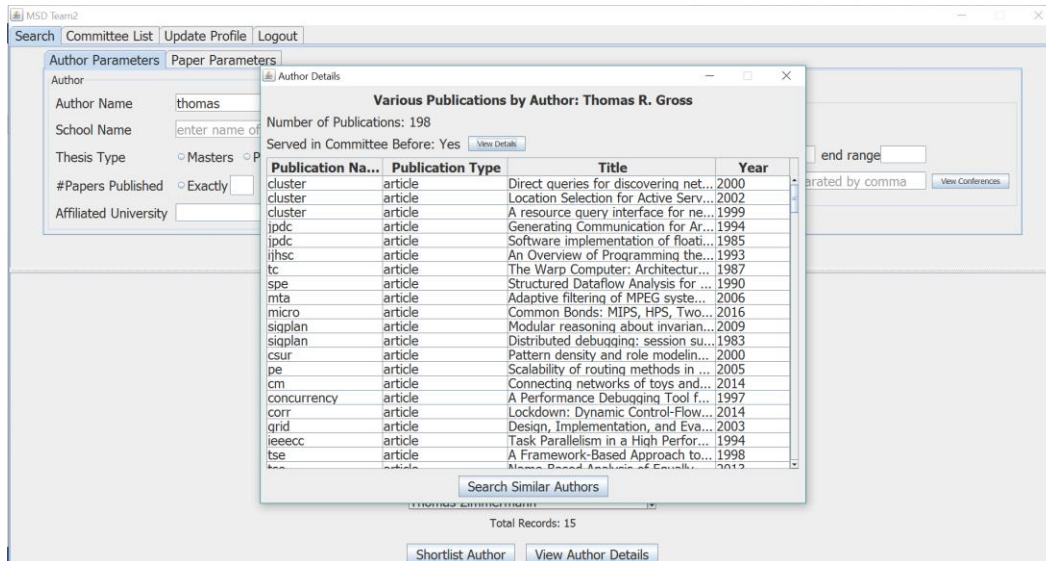
Thomas Wies

Thomas Zimmermann

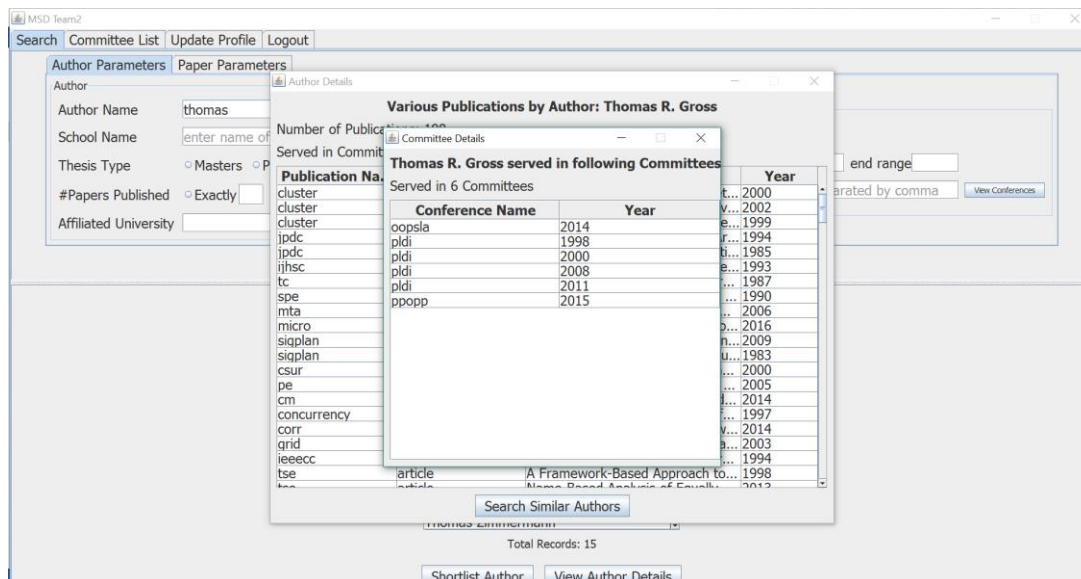
Total Records: 15

VIEW AUTHOR DETAILS

After successful search, the user is given the option to select an author, and either Shortlist Author or View Author Details. When the user clicks on View Author Details, a new window will open, which will contain all the publication details of the selected author. Details such as Publication Name, Publication Type, Title and Year is displayed.



Along with this, above the table, total number of publications of the author and details about whether or not that author has served in any committee before is shown. If the author had served in a committee, a button to view committee details will be shown. On clicking it, a table in new window will open, and the committee details, such as the committee conference and the year it was held is shown, as seen below.



SEARCH SIMILAR AUTHORS

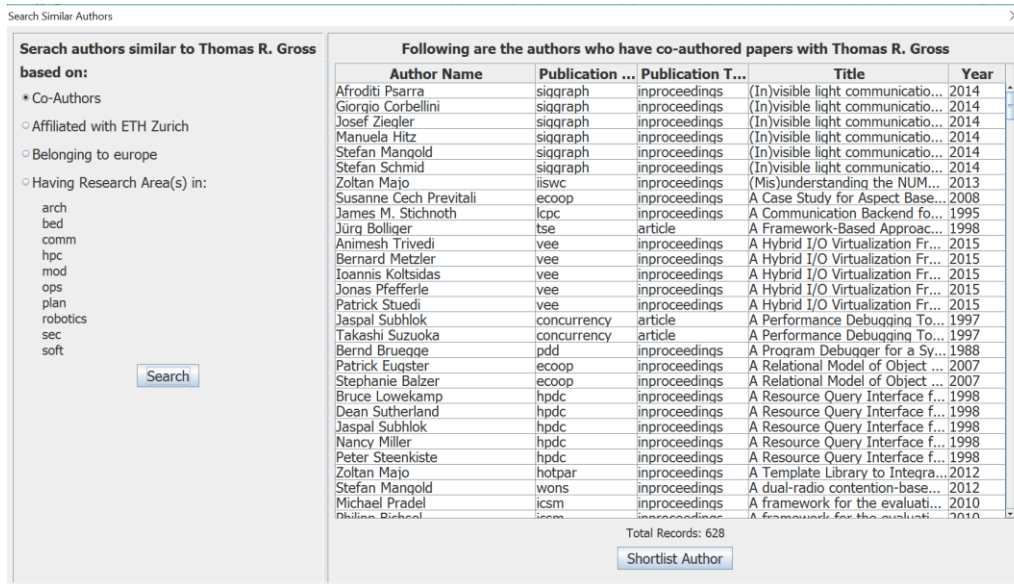
Once the user clicks on 'View Author Details', the above window with Author Details will be shown. Along with this, the user is provided with an option to search for authors who have similar profiles to selected author. Once the user clicks on 'Search Similar Authors', a new dialog box will open, as shown below, which will provide the user to search for authors similar to selected author based on four options.

We provide four options for similar search:

- **Co-Authors:** This gives the user the option to find authors who have co-authored a paper with the selected author.
- **Affiliated with University:** This gives the user the option to find authors who are affiliated with same university as the selected author.
- **Belonging to same Region:** This gives the user the option to find authors who are located in the same region as selected author.
- **Having same Research Area:** This gives the user the option to find authors who are have same research area as selected author.

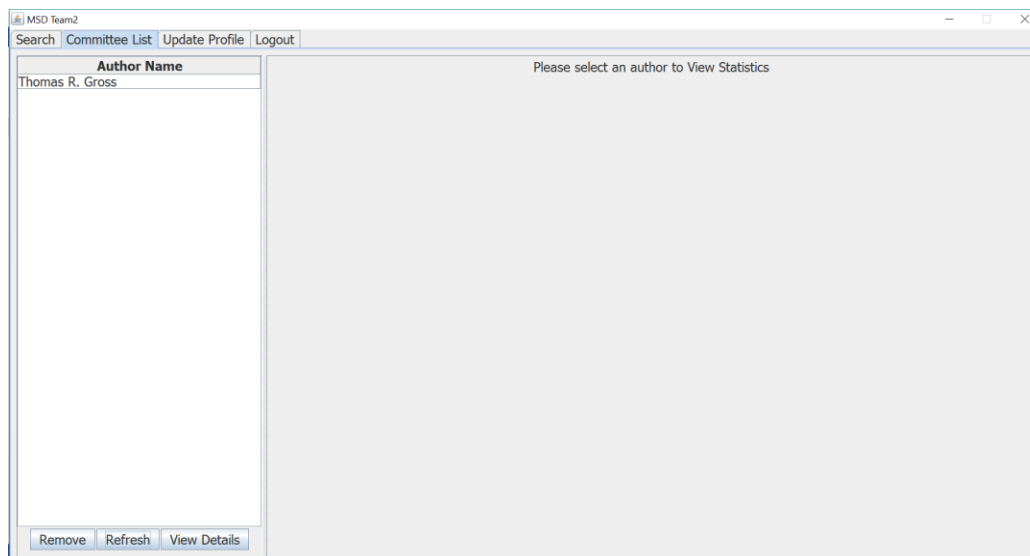
(Note: If the selected author does not have data about affiliated university, region or research areas, the respective options will be disabled)

After selecting any one option, and clicking on search, the user will be displayed with publication details (publication name, publication type, paper title and year of publication) of those similar authors. Along with the results, the user will be provided an option to select an author and shortlist it (the same behavior is expected as explained in Search Results section).



COMMITTEE LIST

Once an author is shortlisted, the user can navigate to 'Committee List' tab and look at those authors him/her shortlisted. To see the effects of the addition, user can click on the 'Refresh' button provided at the end. If the user shortlisted 'Thomas R. Gross', the screen will look as below. Along with this, the user is provided the option to remove the author, or view details of the author. If the user clicks on 'Remove' button, the selected author will be removed and appropriate message will be displayed.



If the user selects an author and clicks on 'View Details', information about author (as explained in View Author Details section will be displayed). The only difference would be that instead of showing those details in new window, it will be displayed in the right pane as below.

MSD Team2
Search
Committee List
Update Profile
Logout

Author Name

Thomas R. Gross

Various Publications by Author: Thomas R. Gross

Number of Publications: 198

Publication Name	Publication Type	Title	Year
cluster	article	Direct queries for discovering network reso...	2000
cluster	article	Location Selection for Active Services.	2002
cluster	article	A resource query interface for network-aw...	1999
jcdc	article	Generating Communication for Array State...	1994
jcdc	article	Software implementation of floating-point a...	1985
ijhsc	article	An Overview of Programming the iWARP S...	1993
tc	article	The Warp Computer: Architecture, Implem...	1987
spe	article	Structured Dataflow Analysis for Arrays an...	1990
mta	article	Adaptive filtering of MPEG system streams	2006
micro	article	Common Bonds: MIPS, HPS, Two-Level Bra...	2016
sigplan	article	Modular reasoning about invariants over sh...	2009
sigplan	article	Distributed debugging: session summary.	1983

Thomas R. Gross served in following Committees

Served in 6 Committees

Conference Name	Year
oopsla	2014
pdi	1998
pdi	2000
pdi	2008
pdi	2011
ppopp	2015

Remove
Refresh
View Details

UPDATE PROFILE

When user navigates to this tab, the user is provided the option to change values in all fields used during registration except the username. Since username is unique for every user, we are not providing the option to user to update it.