



Faculty Research Database

User Guide



NazarAlWattar
Katherine Shaw
Fahad Alotaibi
Christopher Penepent

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Introduction

Welcome to the Faculty Research Database! In this application, you will be able to view information about faculty members and papers that have been published by the faculty. Students, high schoolers, media representatives, and all other members of the public can search for information in the database. Members of the faculty also have the ability to update their list of papers and maintain a list of student researchers. Admin users maintain the list of faculty users. We hope that you enjoy using this application! We have included diagrams that will help you locate items on the screen. If you see a number in parentheses, such as (1), look for a circled number one on the diagram.

The Main Menu is the first screen you will see.

We will walk through the procedure to search for information first. Information for faculty users is in the second section and information for admin users is in the third section.

All Users (Faculty, Student, Public)

Search for Information

The screenshot shows the 'Faculty Database' application window. The title bar says 'Faculty Database'. Inside the window, the 'Main Menu' is displayed. On the right side, there is a 'Faculty Members' section with 'User Name' and 'Password' input fields and a 'Login' button. In the center-left, there is a 'Search By' section (callout 1) with three radio buttons: 'Title' (selected), 'Faculty Name', and 'Keyword'. Below this, there is a 'Title' input field (callout 2) containing the text 'in'. To the right of the 'Title' field is a dropdown menu labeled 'Choose Faculty Name' with the text '<click here to select professor na...' (callout 3). Below the dropdown is a 'Keyword' input field (callout 4). At the bottom left is an 'Admin Panel' button. At the bottom right is a 'Search' button (callout 5).

In the Main Menu screen, select one of the radio buttons (1) to search by paper title, faculty member, or keyword.

Both public users and faculty users can use this window to search for faculty information or research papers.

Search by Title

To search by title, choose the Title radio button in the Search By section (1) then enter any word(s) contained in the title of the paper you are looking for in the Title text box (2). Then click Search (5) to get the list of papers with titles matching the entered words. Continue to the Paper Search Results section for information about the next screen.

Search by Professor

To search by professor, choose the radio button Faculty Name in Search By (1), then select the desired professor name from the drop-down menu (3). Click Search (5) to get the Faculty page for that professor. Continue to the Faculty Page section for information about the next screen.

Search by Keyword

To search by keyword, choose the radio button Keyword in Search By (1) then enter the keyword you would like to search for in the Enter Keyword text box (4). Click Search (5) to get the list of papers that contain that keyword. Continue to the Paper Search Results section for information about the next screen.

Paper Search Results

The screenshot shows a window titled "Paper Search Results" with a light blue background. At the top, there is a "Choose Paper" section with a dropdown menu displaying "Think Inside the Box! Optimizing Web Service Perform..." and a red circle with the number 6 next to it. Below this, there are three main sections: "Title", "Abstract", and "Citation". The "Title" section has a red circle with the number 7 next to it and a text box containing "Think Inside the Box! Optimizing Web Service Performance, Today". The "Abstract" section contains a large text box with the following text: "While Web Services Technology holds great promise for universal integration, several obstacles stand in the way of its acceptance. Work is being done to address these obstacles to allow adoption of web services technology in the future, but where do we stand today? In particular, what can be done today to combat the often cited problem of slow response times for web services? While XML hardware acceleration and SOAP compression schemes can improve the overall response, the authors have found that appropriate selection of client software, server software, and data structures can have a substantial impact. It is possible to have a profound impact on performance using tools that are routinely and dependably available to us now." The "Citation" section contains a text box with the following text: "Zilora, Stephen, and Sai Sanjay Ketha. 'Think Inside the Box! Optimizing Web Services Performance Today.' IEEE Communications Magazine, 46.3 (2008): 112-117." At the bottom of the window, there is a red circle with the number 8 next to a button labeled "Return to Search Window".

After searching by keyword or title, a list of matching paper titles will display in a drop down menu (6).

Select the title from the drop down list for the paper you wish to see the details and the information will display in the Paper Details section (7).

If you would start a new search, close the window or click Return to Search Window (8) and you can start a new search on the Main Menu.

Faculty Page

The screenshot shows a web application window titled "Professor Information Page". It contains several sections:

- Professor Information:** Located at the top right, it displays "Professor Name" as Dan Bogaard and "Professor Email" as dsb@it.rit.edu. This section is marked with a red circle and the number 8.
- Current Student(s) Name:** A dropdown menu showing "Chris Penepent". This section is marked with a red circle and the number 9.
- Looking for a student researcher in:** A text area containing the text "I am looking for a student with Python experience who wants to work on data mining". This section is marked with a red circle and the number 10.
- Return to Search Window:** A button located below the text area.
- Professor Papers:** A section on the right side, marked with a red circle and the number 11. It contains a dropdown menu for "Papers" (marked with a red circle and the number 12) showing "Work in Progress - Bringing Sanity to the C...". Below this, the "Title", "Abstract", and "Citation" for the selected paper are displayed.

On the Faculty Page, the professor's name and contact information will display at the top right of the screen (8). Use the professor's email address to contact that person with requests for research talks or if you are student wanting to work with that professor.

Current students working with the professor are displayed below (9), and if the professor is looking for students to work with him/her then the desired qualifications will be displayed (10).

The papers published by this professor are listed in the papers section (11). To view additional details about a paper, select title from the drop down menu (12). The title, abstract, and citation will be displayed below.

To return to the main menu to see a different professor or paper, close the window or click Return to Search and make new selections in the Main Menu.

Faculty User

Faculty Database

Main Menu

Faculty Members

User Name sjz@it.rit.edu 1

Password *** 2

Login 3

Search By

☐ Title ☐ Faculty Name ☐ Keyword

Title

Choose Faculty Name

Keyword

Search

Logging In

On the Main Menu screen, the faculty user should provide a username as one of the login requirements. Enter your email address as the username (1). In the Password text box (2), faculty users should provide their password as the second of the login requirements.

After the UserName and Password have been entered, click the Login button (3).

The faculty edit screen will display.

Faculty Edit Screen

The screenshot shows a web application window titled "Edit Faculty Information". At the top, the name "Steve Zilora" is displayed. To the right is a text input field containing "<student name>" and an "Add Student" button. Below this, a red circle with the number 4 highlights a dropdown menu showing "CHANGE Inside the Box! Optimiz...". To the right of the dropdown is a text input field containing "Looking for a student with PHP knowledg". Below the dropdown, a red circle with the number 5 highlights an "Edit Paper" button, with a "Delete Paper" button next to it. To the right of these buttons is a "Student Researcher Text" field and an "Update" button. Below the "Edit Paper" button, a red circle with the number 6 highlights the "Paper Information" section. This section contains fields for "Title" (with the text "CHANGE Inside the Box! Optimizing Web Service Performance, Today"), "Abstract" (with a large text area containing a paragraph about web services technology), "Citation" (with the text "Zilora, Stephen, and Sai Sanjay Ketha. 'Think Inside the Box! Optimizing W"), and "Keywords" (with the text "C#,IIS,Java,performance,PHP,SOAP,Tomcat,web services,XML," and a note "(Separate with commas)"). At the bottom of the window, there are three buttons: "Add New Paper", "Save Changes" (highlighted with a red circle and the number 7), and "Return to Search".

To Edit a Paper

Select the paper title from the drop down menu (4), then the paper's details will be populated in the Paper Information fields (6).

Click Edit Paper (5) to get editable text boxes.

Edit the text in the text fields and make desired changes to Paper Information (Title, Abstract, Citation, and Keywords).

*For the keywords, make sure they are entered separated by commas. For example, "java,computer,c#" if you want to have keywords of java, computer, and c#.

After you are done making changes, click Save Changes (7).

An alert will pop up displaying either “Changes Saved” for a successful edit, or “Changes not saved” if the changes were not saved due to an error.

To Delete a Paper

Edit Faculty Information

Steve Zilora

4 CHANGE Inside the Box! Optimiz...

9

8 **Paper Information**

Title

Abstract

Citation

Keywords
(Separate with commas)

Select the paper title, shown as (4), then the current details will be populated in the Paper Information fields (8).

Click Delete Paper, shown as (9), to delete the paper.

An alert will pop up asking the user to confirm the delete. If you click OK, the paper will be deleted; if you click Cancel, the paper will not be deleted.

To Add a New Paper

The screenshot shows a web application window titled "Edit Faculty Information". At the top, it displays the name "Steve Zilora" and a text input field containing "<student name>" with an "Add Student" button to its right. Below this, a red circle with the number "4" highlights a dropdown menu that currently shows "Add New Paper". To the right of the dropdown is an empty text input field. Below the dropdown are two buttons: "Edit Paper" and "Delete Paper". To the right of these buttons is a text input field labeled "Student Researcher Text" with an "Update" button next to it. A section titled "Paper Information" is highlighted with a red circle and the number "10". This section contains four input fields: "Title", "Abstract" (a larger text area), "Citation", and "Keywords" (with a note "(Separate with commas)" below it). At the bottom of the window, a red circle with the number "11" highlights the "Add New Paper" button. Other buttons at the bottom are "Save Changes" and "Return to Search".

Select "Add NewPaper" in the drop-down list (4).

In the Paper Information section (10), enter the details of the paper you would like to add. Enter Title, Abstract, Citation, and Keywords.

*For the keywords, make sure they are entered separated by commas. For example, "java,computer,c#" if you want to have keywords of java, computer, and c#.

Click Add New Paper (11).

An alert will pop up displaying either "Paper Added" if the paper was successfully saved or "Paper Not Saved" if the changes were not saved due to an error.

To Add a Student

You may wish to display the names of the students that are currently working with you on your Faculty Page. To do this, the student's name must be added.

First, enter the student name in the text box (12).

Then, click Add Student (13).

A confirmation will pop up, displaying either "Student Added" or "Student already exists".

Now, this student's name will be displayed on your faculty page.

If you would like to display a message on your Faculty page showing that you are looking for students to work on a project, enter the 'job posting' message with the qualifications you are looking for in the student researcher text box (14). Then click Update (15). The message will be displayed on your Faculty page.

If you do not need any students to help right now, clear the text from the student research text box. No message will be displayed on the Faculty screen.

To return to the main screen to search for paper or faculty details, click the Return to Search button (16).

Admin User

The screenshot shows a window titled "Faculty Database" with a "Main Menu" header. On the right, there is a "Faculty Members" section with "User Name" and "Password" input fields and a "Login" button. In the center, there is a "Search By" section with three radio buttons: "Title", "Faculty Name", and "Keyword". Overlaid on this is a smaller dialog box titled "Enter Admin Username and Password". This dialog box contains two input fields: "Enter admin username:" and "Enter admin password:". At the bottom of the dialog are "Cancel" and "OK" buttons. Red circles with numbers 1 through 5 are placed over specific UI elements: (1) is over the "Admin Panel" button in the bottom left of the main window; (2) is over the "Enter admin username:" input field; (3) is over the "Enter admin password:" input field; (4) is over the "OK" button in the dialog; and (5) is over the "Cancel" button in the dialog.

Logging In

To access the Admin Panel, admin users first need to login. Click the Admin Panel button (1) to start. Next, enter your username (2) and password (3), then click OK (4). If you clicked the Admin Panel button in error, click Cancel (5) to exit the login process.

After your credentials are verified, you will be taken to the Admin Panel window.

Admin Panel

Add New Faculty

To add a new faculty member, select Add New Faculty from the drop down list (6). Then enter the faculty details into the First Name (9), Last Name (10), and Email (11) fields. Click the Add New Faculty button (12) to complete the process.

Edit Faculty

To edit existing faculty details, select the faculty member name from the drop down list (6). The faculty details will display in the Faculty Information section of the window. Click the Edit Faculty button (7). The First Name (9), Last Name (10), and Email (11) fields are now editable. After you have made the desired changes, click the Save Changes button (13).

Delete Faculty

To delete an existing faculty member, select the faculty member name from the drop down list (6). The faculty details will display in the Faculty Information section of the window. Click the

Edit Faculty button (8). An alert will ask you to confirm if you want to delete the faculty or cancel.

Return to Search

Click the Return to Search button (15) to return to the Main Menu.

Flowchart of User Actions

For users who prefer a visual path of the application functions, the following diagram shows how different users and actions interact.

- 1- Fahad AlOtaibi
- 2- Christopher Penepent
- 3- Katherine Shaw
- 4- Nazar AlWattar

