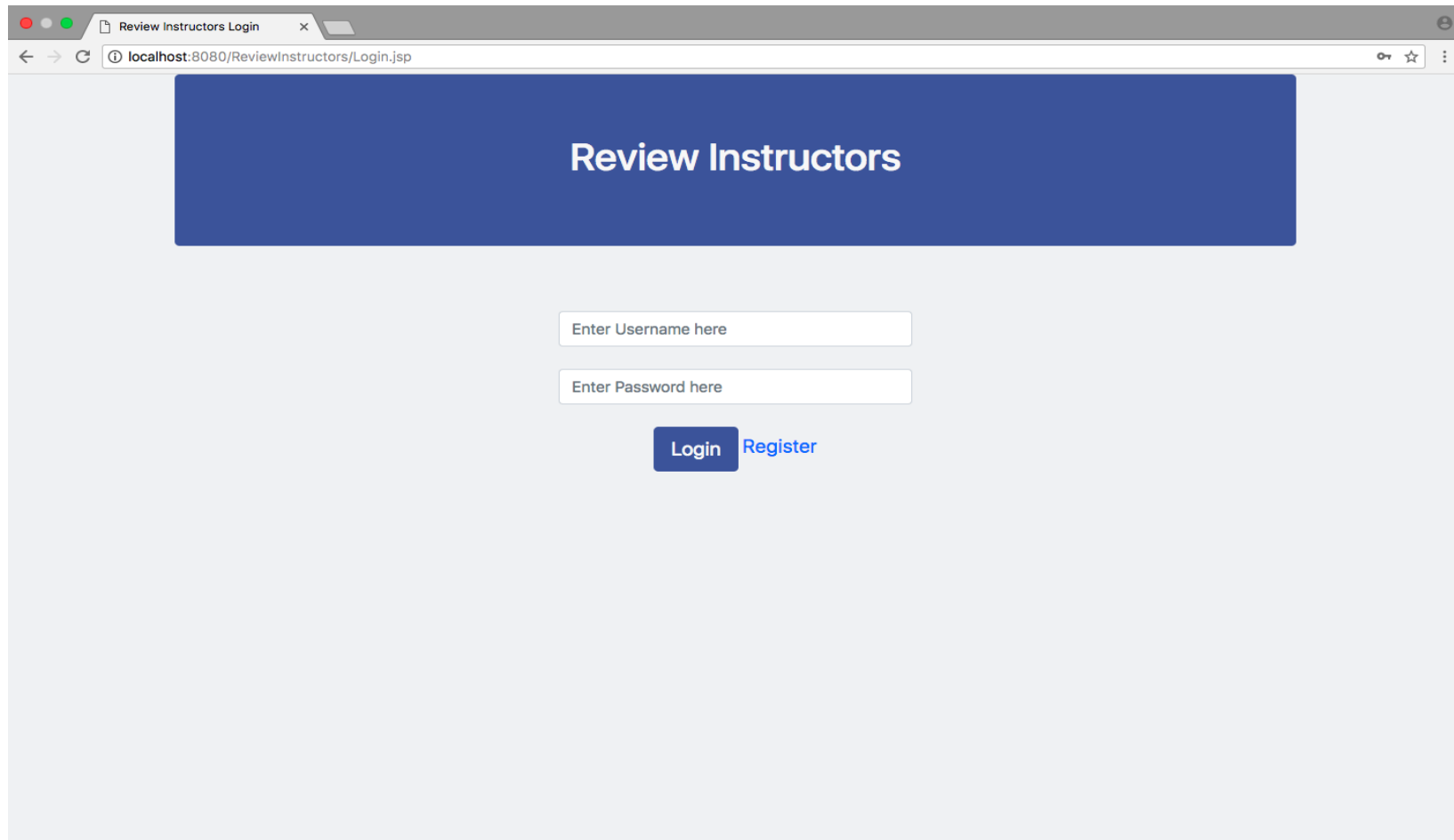


**Main Page:** This is main page of Application. User can either Login with valid password or Register as a new User .



The screenshot shows a web browser window with the title "Review Instructors Login". The address bar displays "localhost:8080/ReviewInstructors/Login.jsp". The main content area features a large blue header with the text "Review Instructors". Below the header, there are two input fields: "Enter Username here" and "Enter Password here". At the bottom, there are two buttons: a blue "Login" button and a blue "Register" link.

**Register New User:** On Registration Page, User fill in all details and Hit Submit Button. This will call post method in register Servlet (Register.java) which will verify and send all details to StudentDao.getLoginDetails function to verify if the user already exists. If yes, it will throw error and redirect to register page. If Not, it will call StudentDao.create function and register the new User by adding the user in Student Table in Database and redirect back to login.

Register: New User x

localhost:8080/ReviewInstructors/register

Register

Username

Rajdeep

Password

....

First Name

Rajdeep

Last Name

Kaur

University

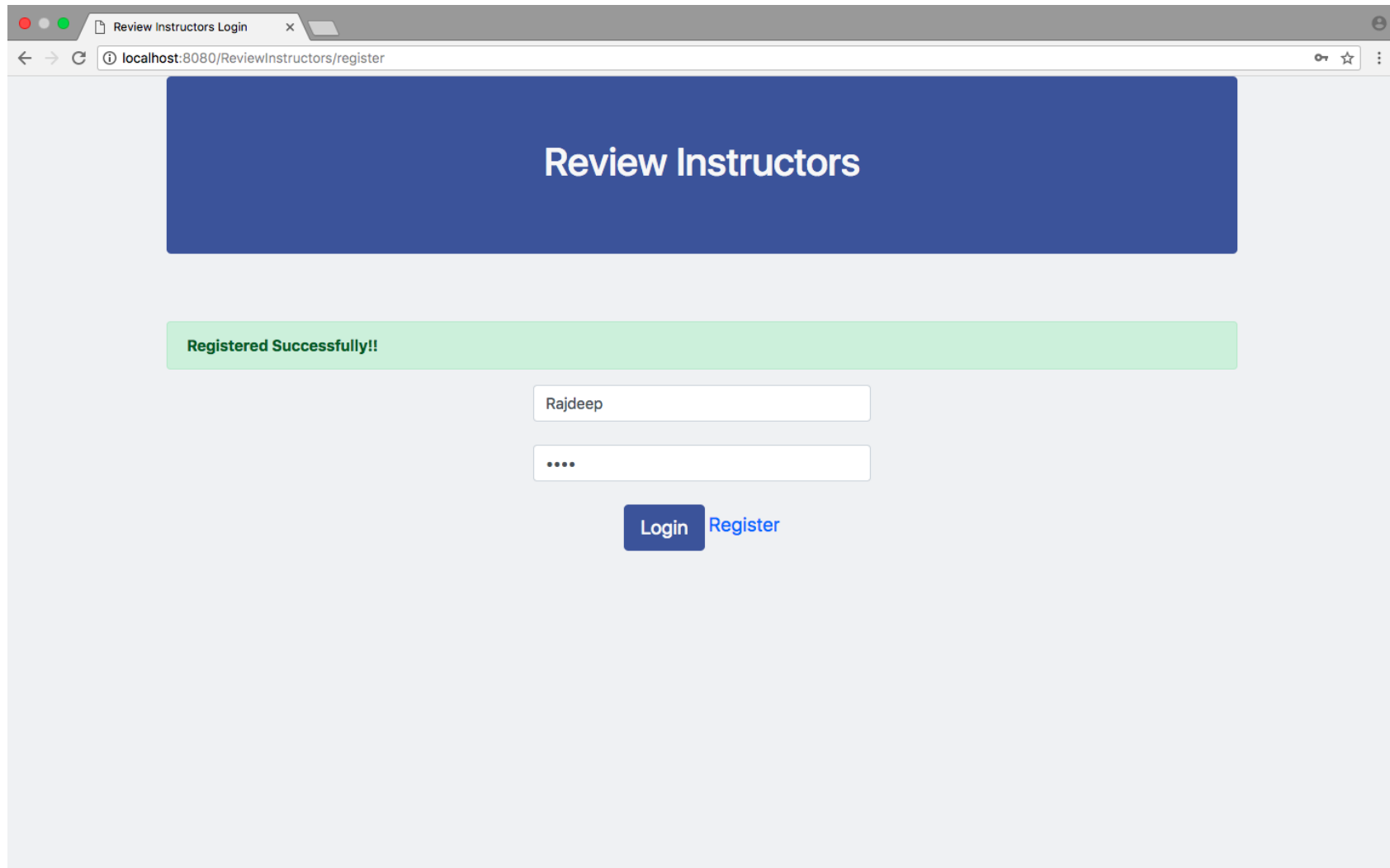
Northeastern University

Graduation Year

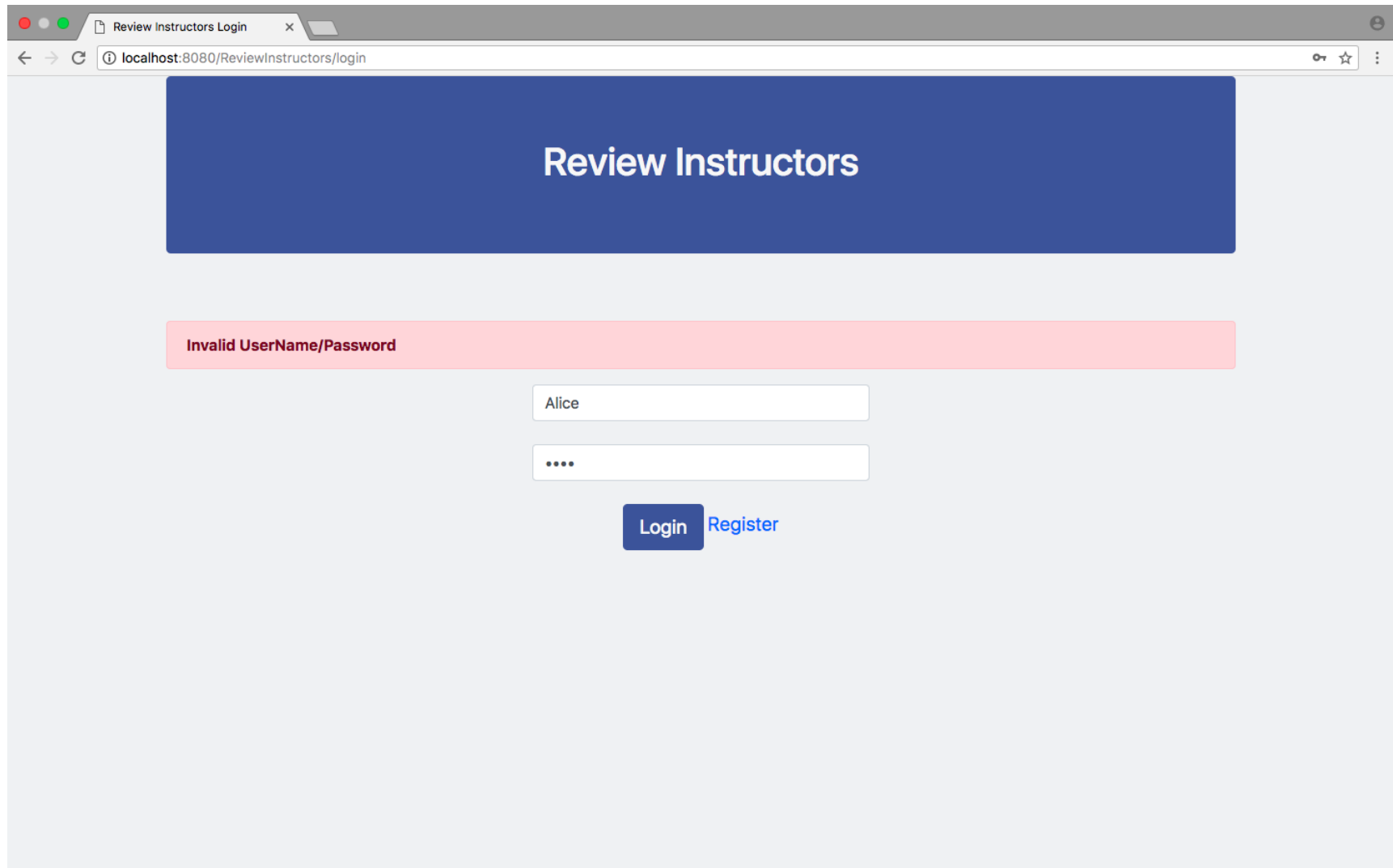
2018

Submit

Cancel



**Login:** When User Fill UserName and Password and hit Login Button. It will call Post Method in Login Servlet. Login Servlet verify all details and Then call LoginDao.getLoginDetails function , GetLoginDetails function runs a Select Query to retrieve if user exists in Database . If Yes, It returns Login Model otherwise Null. If valid Login model is returned , servlet will save User in Http Session Attribute and redirect to Search Page. If Null is returned it will redirect back to Login Page with valid message.



**Search Page:** User will reach below page after successful Login. Here User can Perform 3 Functions:

- Add New Professor
- Search Professor with FirstName and LastName
- Search Professors from Particular University given in dropdown

The screenshot shows a web browser window with the title 'Search Professor' and the URL 'localhost:8080/ReviewInstructors/search'. The page has a dark blue header with the text 'Search Professor' and a button 'Add Professor'. Below the header, there are two search sections. The left section, 'Search By Professor', has input fields for 'First Name' and 'Last Name', and a 'Search' button. The right section, 'Search By University', has a dropdown menu for 'University Name' with 'Indian Institute of Technology' selected, and a 'Search' button. The user is logged in as 'Rajdeep'.

Search Professor

Logged in as:Rajdeep| Logout

Add Professor

Search By Professor

First Name

Last Name

Search

Search By University

University Name

Indian Institute of Technology

Search

**Search with Professor Name:** If User enters firstname and hit the first Search Button, It will call **Search Servlet** Post method. Post method will check if url has parameter “univ”. For Search by professor , this parameter is not sent in request. So , it will now call ProfessorDao functions.

- FirstName is given → Call ProfessorDao.GetProfessorsFromFirstname
- LastName is given → Call ProfessorDao.GetProfessorsFromLastname
- FirstName and LastName is Given → Call ProfessorDao.GetProfessorsFromtName

Dao functions will use select query to get similar results(use Like in query) and All above functions will send List<Professor> back to Search servlet, which will now reload the Search.jsp and Show results in Table. All the professors Name are hyperlinks that link to ProfessorReview Page that has Professor Details.

The screenshot shows a web browser window with the title "Search Professor". The address bar shows "localhost:8080/ReviewInstructors/search". The page has a dark blue header with the text "Search Professor" and a "Logged in as:Rajdeep| Logout" link. Below the header is a blue button labeled "Add Professor". The main content area is divided into two sections: "Search By Professor" and "Search By University". The "Search By Professor" section has two input fields: "First Name" (containing "Karl") and "Last Name" (empty). The "Search By University" section has a dropdown menu for "University Name" (showing "Indian Institute of Technology"). Both sections have a "Search" button. Below the search forms is a table with the following data:

Name	University	Rank	Joining Year
<a href="#">Karl Crary</a>	Carnegie Mellon University	Associate	1995
<a href="#">Karl N. Levitt</a>	University of California	Full	2015
<a href="#">Karl J. Lieberherr</a>	Northeastern University	Full	2012

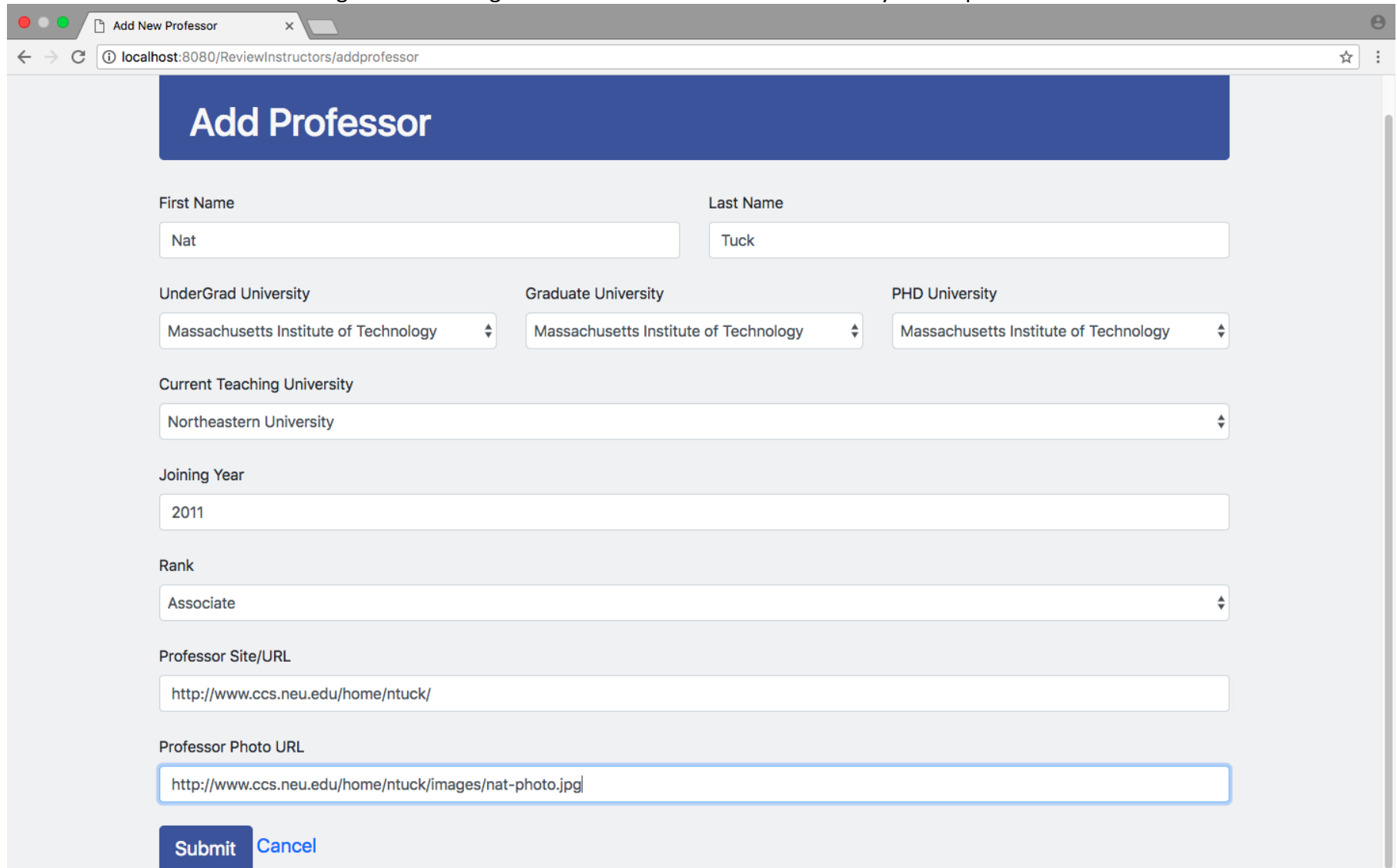
**Search All Professors of a University:** When User Selects the Value from University dropdown and hits the Search button. It call Post method in Search Servlet. The request will have parameter “univ” with value true. So the Servlet will call ProfesorDao function GetProfessorsFromUniversity. So the function will do select query on Professor Table and return List Of Professor back to Servlet and Servlet will reload Search.jsp and Show Table with All Professors Retrieved.

The screenshot shows a web browser window with the title "Search Professor". The address bar shows the URL "localhost:8080/ReviewInstructors/search?univ=true". The page has a dark blue header with the text "Search Professor" and a "Logged in as: Rajdeep | Logout" link. There is an "Add Professor" button in the top right. Below the header, there are two search panels. The left panel, "Search By Professor", has input fields for "First Name" and "Last Name", and a "Search" button. The right panel, "Search By University", has a dropdown menu for "University Name" with "Northeastern University" selected, and a "Search" button. Below these panels is a table with the following data:

Name	University	Rank	Joining Year
<a href="#">Cristina Nita-Rotaru</a>	Northeastern University	Associate	2000
<a href="#">Jan Vitek</a>	Northeastern University	Full	2016
<a href="#">Olga Vitek</a>	Northeastern University	Associate	2008
<a href="#">Tina Eliassi-Rad</a>	Northeastern University	Associate	2014
<a href="#">Long Lu</a>	Northeastern University	Assistant	2016
<a href="#">abhi shelat</a>	Northeastern University	Associate	2005

**Add New Professor:** User Can Click **ADD PROFESSOR** button on Search Page . It will redirect to AddProfessor.jsp. User can fill all details and hit Submit Button.

SubmitButton → addprofessor Servlet → ProfessorDao. Create Function → Insert Data in Professor Table → Send Professor model back to Servlet → Servlet will redirect Page to Search Page where user can search and see newly added professor.



The screenshot shows a web browser window with the title 'Add New Professor' and the URL 'localhost:8080/ReviewInstructors/addprofessor'. The page has a blue header with the text 'Add Professor'. Below the header, there are several form fields:

- First Name:** A text input field containing 'Nat'.
- Last Name:** A text input field containing 'Tuck'.
- UnderGrad University:** A dropdown menu with 'Massachusetts Institute of Technology' selected.
- Graduate University:** A dropdown menu with 'Massachusetts Institute of Technology' selected.
- PHD University:** A dropdown menu with 'Massachusetts Institute of Technology' selected.
- Current Teaching University:** A dropdown menu with 'Northeastern University' selected.
- Joining Year:** A text input field containing '2011'.
- Rank:** A dropdown menu with 'Associate' selected.
- Professor Site/URL:** A text input field containing 'http://www.ccs.neu.edu/home/ntuck/'.
- Professor Photo URL:** A text input field containing 'http://www.ccs.neu.edu/home/ntuck/images/nat-photo.jpg'.

At the bottom of the form, there are two buttons: 'Submit' (a dark blue button) and 'Cancel' (a blue text link).



Search Professor

localhost:8080/ReviewInstructors/search

Logged in as:Rajdeep| Logout

# Search Professor

Add Professor

## Search By Professor

First Name

Nat

Last Name

Tuck

Search

## Search By University

University Name

Indian Institute of Technology

Search

Name	University	Rank	Joining Year
<a href="#">Nat Tuck</a>	Northeastern University	Associate	2011

### **Professor Details Page:**

ProfessorName link on Search Page redirect to ProfessorReview Servlet for the selected Professor with id parameter.

ProfessorReview Servlet gets all information for Professor and redirects to ProfessorReview.Jsp

ProfessorReviewServlet → ProfessorDao – getProfessorById function → returns professor model of professor with requested ID → redirects Information to ProfessorReview.Jsp

**\*\* Now Get Courses taught by professor from ProfessorCourseData Table**

ProfessorReviewServlet → ProfessorCourseDataDao – getCoursesFromProfessor function → returns List<Courses> taught by professor with requested ID → redirects Information to ProfessorReview.Jsp → creates separate tab for each course

**\*\* get Reviews for Each Course**

ProfessorReviewServlet → ReviewsDao – getReviewsByProfAndCourseId function → returns List<Reviews> based on Course and ProfessorId → redirects Information to ProfessorReview.Jsp → insert reviews in respective Course Tab

Professor Details / Reviews

localhost:8080/ReviewInstructors/professorreview?id=3224

Logged in as:Rajdeep| Logout

Karl J. Lieberherr3.5

Post ReviewSearch

•

Current University:

Northeastern University

•

Bachelors:

Not Known

•

Masters:

Swiss Federal Institute of Technology (ETH)

•

PHD:

Swiss Federal Institute of Technology (ETH)

•

Rank:

Full

•

Website:

<http://www.ccs.neu.edu/home/lieber/>



Home

KE421

CS564

CS1100

Switch Courses to view Reviews

**Separate Review Tab for each Course** (For Every Review, we check if ShowName property is true, then display Username otherwise "Anonymous")

Professor Details / Reviews

localhost:8080/ReviewInstructors/professorreview?id=3224

Logged in as:Rajdeep| Logout

Karl J. Lieberherr 3.5

Post ReviewSearch

• **Current University:**

Northeastern University

• **Bachelors:**

Not Known

• **Masters:**

Swiss Federal Institute of Technology (ETH)

• **PHD:**

Swiss Federal Institute of Technology (ETH)

• **Rank:**

Full

• **Website:**

<http://www.ccs.neu.edu/home/lieber/>



HomeKE421CS564CS1100

Computer System and its applicationsNortheastern University

Posted By	Reviews	
Anonymous	<div>Great Course</div> <div>Difficulty: EASY CourseWork: LIGHT</div> <div>Year Attended: 2017</div>	<div>Like 3</div> <div>Dislike 0</div> <div>Comments</div>

### Students can like, Dislike and Comment on Reviews

**Like:** ProfessorReview.jsp → Ajax Call to LikeReview Servlet → ReviewDao → updateLikeCount Function → professorReview Servlet → professorReview.jsp

**DisLike:** ProfessorReview.jsp → Ajax Call to DislikeReview Servlet → ReviewDao → updateDislikeCount Function → professorReview Servlet → professorReview.jsp

**Comments:** When User Clicks Comments it will open modal for Comments. Comments are loaded for particular review when clicked dynamically using Ajax

Click Comment Link → Ajax Call to addComment Servlet → CommentDao –getCommentsByReviewId → return List Of Comments → Open AddComment.jsp in Modal and load the List<Comments>

#### To Add Comment:

In Comment Modal, add comment in input box, check or not anonymous checkbox and Click Add → Add Calls Addcomment Servlet post method → CommentDao – Create Function to create comment in Comment Table → Call CommentDao – getCommentsByReviewId → return List Of Comments → Open AddComment.jsp in Modal and load the List<Comments>

(This will show list of comments with new comment added)

Professor Details / Reviews

localhost:8080/ReviewInstructors/professorreview?id=3224

Logged in as:Rajdeep| Logout

Karl J. Lieberhe

• Current University:

Northe

• Bachelors:

Not Kn

• Masters:

Swiss F

• PHD:

Swiss F

• Rank:

Full

• Website:

<http://www.ccs.neu.edu/home/lieber/>

Home

KE421

CS564

CS1100

Post Review

Search

Comments

Rajdeep

Good Teacher

Anonymous

WAFE method is helpful

☐

Course has lots of assignments. But is helpful

Add

Computer System and its applications

Northeastern University

Posted By	Reviews	
Anonymous	<div>Great Course</div> <div>Difficulty: EASY CourseWork: LIGHT</div> <div>Year Attended: 2017</div>	<div>Like 3</div> <div>Dislike 0</div> <div>Comments</div>

Professor Details / Reviews

localhost:8080/ReviewInstructors/professorreview?id=3224


Logged in as:Rajdeep| Logout

# Karl J. Lieberhe

- Current University: Northe
- Bachelors: Not Kn
- Masters: Swiss F
- PHD: Swiss F
- Rank: Full
- Website: http://v

Post Review

Search



Computer System and its applications

Northeastern University

Posted By	Reviews	
Anonymous	<p>Great Course</p> <p><b>Difficulty:</b> EASY <b>CourseWork:</b> LIGHT</p> <p><b>Year Attended:</b> 2017</p>	<div>Like <b>3</b></div> <div>Dislike <b>0</b></div> <div>Comments</div>

Comments

Rajdeep

Good Teacher

Anonymous

WAFE method is helpful

Rajdeep

Course has lots of assignments. But is helpful

☐

Check to post as anonymous

Add

## Post Review:

Enter Details and Click Submit Button → PostReview Servlet Post Method → ProfessorCourseDataDao – CheckCourseProfessorJoin function(It checks if the entry for course being reviewed is being made in ProfessorCourseTableOrNot) → If Returns False , Then ProfessorCourseDataDao – createPCJoin function(Add Course for the professor) → ReviewsDao – Create Function to create new Review → PostReviewServlet → redirects to ProfessorReview Servlet → ProfessorReview.jsp

Post Review

Logged in as: Rajdeep | Logout

Professor

Karl J. Lieberherr

University

Northeastern University

CourseName

Computer System and its applications

Add Course

Description

This is a great course. You get extra credits as well.

Difficulty Level

EASY

CourseWork Level

MEDIUM

Year Attended

2017



☐ Anonymous

Submit Cancel

You will see new review added to the course for the professor

Professor Details / Reviews

localhost:8080/ReviewInstructors/postreview?id=3224

Logged in as:Rajdeep| Logout

Karl J. Lieberherr 3.5

Post Review Search

• **Current University:**

Northeastern University

• **Bachelors:**

Not Known

• **Masters:**

Swiss Federal Institute of Technology (ETH)

• **PHD:**

Swiss Federal Institute of Technology (ETH)

• **Rank:**

Full

• **Website:**

<http://www.ccs.neu.edu/home/lieber/>



Home

KE421

CS564

CS1100

Computer System and its applications

Northeastern University

Posted By	Reviews	
Anonymous	Great Course <b>Difficulty:</b> EASY <b>CourseWork:</b> LIGHT <b>Year Attended:</b> 2017	Like 3 Dislike 0 Comments
Rajdeep	This is a great course. You get extra credits as well. <b>Difficulty:</b> EASY <b>CourseWork:</b> MEDIUM <b>Year Attended:</b> 2017	Like 0 Dislike 0 Comments

**ADMIN EXTRA FEATURES:** Additionally if you login as Admin User , Jsp Pages check if the Role field of User is “ADMIN”, They see additional Delete Button on Search and ProfessorReview Page.

Delete Link → deleteProfessor Servlet → ProfessorDao – Delete Function (deletes the professor from professor table) → deleteProfessor Servlet → redirect to Search Servlet (Same Flow As shown to search professor above) → Search.jsp

The screenshot shows a web browser window with the URL `localhost:8080/ReviewInstructors/search?univ=true`. The page is titled "Search Professor" and has a "Logged in as: Pardeep | Logout" status. There are two search filters: "Search By Professor" with fields for "First Name" and "Last Name", and "Search By University" with a dropdown menu showing "University of Toronto". Both filters have a "Search" button. Below the filters is a table of professors:

Name	University	Rank	Joining Year	
<a href="#">Raquel Urtasun</a>	University of Toronto	Associate	1997	<a href="#">Delete</a>
<a href="#">Allan Borodin</a>	University of Toronto	Full	2011	<a href="#">Delete</a>
<a href="#">Allan Jepson</a>	University of Toronto	Full	2013	<a href="#">Delete</a>
<a href="#">Angela Demke Brown</a>	University of Toronto	Associate	2006	<a href="#">Delete</a>
<a href="#">Anthony Bonner</a>	University of Toronto	Associate	2003	<a href="#">Delete</a>

At the bottom of the browser window, the address bar shows the URL `localhost:8080/ReviewInstructors/deleteprofessor?id=1417`.

Professor Raquel Urtasun is deleted and you see updated page

Search Professor

Logged in as: Pardeep | Logout

Add Professor

### Search By Professor

First Name

Last Name

Search

### Search By University

University Name

Search

Name	University	Rank	Joining Year	
Allan Borodin	University of Toronto	Full	2011	<a href="#">Delete</a>
Allan Jepson	University of Toronto	Full	2013	<a href="#">Delete</a>
Angela Demke Brown	University of Toronto	Associate	2006	<a href="#">Delete</a>
Anthony Bonner	University of Toronto	Associate	2003	<a href="#">Delete</a>
Azadeh Farzan	University of Toronto	Associate	2007	<a href="#">Delete</a>
Bianca Schroeder	University of Toronto	Associate	2008	<a href="#">Delete</a>

### Delete Link On ProfessorReview Page

Click Delete Link → deleteReview Servlet → ReviewsDao – Delete Function (deletes the review from Reviews table) → deleteReview Servlet → redirect to ProfessorReview Servlet (Same Flow As shown to search professor above) → ProfessorReview.jsp  
(Deleting first Comment By Anonymous User)

Professor Details / Reviews

localhost:8080/ReviewInstructors/professorreview?id=2494

Allan Borodin

4.5

Post Review

Search

•

Current University:

University of Toronto

•

Bachelors:

Rutgers

•

Masters:

Stevens Institute of Technology

•

PHD:

Cornell University

•


Rank:

Full

•

Website:

[http://en.wikipedia.org/wiki/Allan\\_Borodin](http://en.wikipedia.org/wiki/Allan_Borodin)



Home

ME310

Condensed-matter physics

Oklahoma State University

Posted By	Reviews	
Anonymous	<p>Good enough at teaching. In general the class was easy if you understood the slides. This is for Northeastern, we were allowed to bring in "cheat sheets." Overall good.</p> <p><b>Difficulty:</b> HARD <b>CourseWork:</b> LIGHT</p> <p><b>Year Attended:</b> 2005</p>	<div>Like 10</div> <div>Dislike 14</div> <div>Comments</div> <div>Delete</div>
Robert	<p>Great class if you have major senioritis and cant seem to wake up early. I went maybe twice in a semester and received a high A. He never has anything to lecture about, and the subject matter was dry. If you like writing long papers about the logistics be</p> <p><b>Difficulty:</b> EASY <b>CourseWork:</b> LIGHT</p> <p><b>Year Attended:</b> 2016</p>	<div>Like 9</div> <div>Dislike 6</div> <div>Comments</div> <div>Delete</div>

localhost:8080/ReviewInstructors/deleteview?pid=2494&rid=12594

Review is Deleted and the page is reloaded with new results.

Professor Details / Reviews

localhost:8080/ReviewInstructors/professorreview?id=2494&deleted=true

Allan Borodin 4.5

Post ReviewSearch

Review Deleted successfully!!

• **Current University:**

University of Toronto

• **Bachelors:**

Rutgers

• **Masters:**

Stevens Institute of Technology

• **PHD:**


Cornell University

• **Rank:**

Full

• **Website:**

[http://en.wikipedia.org/wiki/Allan\\_Borodin](http://en.wikipedia.org/wiki/Allan_Borodin)



Home

ME310

Condensed-matter physics

Oklahoma State University

Posted By	Reviews	
Robert	<p>Great class if you have major senioritis and cant seem to wake up early. I went maybe twice in a semester and received a high A. He never has anything to lecture about, and the subject matter was dry. If you like writing long papers about the logistics be</p> <p><b>Difficulty:</b> EASY <b>CourseWork:</b> LIGHT <b>Year Attended:</b> 2016</p>	<div>Like 9</div> <div>Dislike 5</div> <div>Comments</div> <div>Delete</div>
Jian	<p>Good enough at teaching. In general the class was easy if you understood the slides. This is for Northeastern, we were allowed to bring in "cheat sheets." Overall good.</p>	<div>Like 2</div> <div>Dislike 13</div>

