

User Guide For Brain Rush Application

Introduction

Welcome to Brain_Rush, your ultimate online learning platform designed to empower learners of all levels. Whether you're just starting out and eager to explore new skills, or you're an advanced user looking to deepen your knowledge, this guide is here to help you make the most of your Brain_Rush experience.

The aim of this project is to develop a comprehensive and user-friendly feedback management system for educational platforms. This system will enable instructors and administrators to efficiently manage, search, sort, update, and delete feedback from students. By providing robust search functionality, intuitive navigation, and real-time updates, this project aims to streamline the process of handling feedback, ultimately enhancing the quality of education and the user experience on Brain_Rush.

This documentation provides a comprehensive overview of how to navigate and utilize the features of Brain_Rush. From enrolling in courses and tracking your progress to accessing resources and engaging with the community, you'll find step-by-step instructions, tips, and best practices to ensure your learning journey is seamless and enjoyable. Our goal is to support you in achieving your educational and professional aspirations, allowing you to focus on what truly matters—your growth and development.

Let's get started on your journey with Brain_Rush!

Navigation Bar

Our application includes five pages, and the navigation bar allows you to easily switch between them.

Brain Rush

Course Student Instructor Feedback

- Category: Access to the category management page.
- Course: Access to the course management page.
- Student: Access to student management page.
- Instructor: Access to instructor management page.
- Feedback: Access to feedback management page.

Category page

The Category Page is designed to allow users to effectively manage categories within the application. Below is a detailed guide to help navigate and utilize its features.

Category Management

Create New Category

Search Category by Name

Enter category name

Search Category

Artificial Intelligence
Courses on machine learning, AI, and robotics.
Update

Cloud Computing
Courses on cloud platforms like AWS, Azure, and GCP.
Update

Cybersecurity
Courses on information security and ethical hacking.
Update

Data Science
Courses about data analysis, visualization, and machine learning.
Update

Mobile Development
Courses on building Android and iOS applications.
Update

Programming
Courses related to software development and programming languages.
Update

Main Features

- Create New Category**
 - Allows you to add a new category to the database.
- Search Category by Name**
 - Enables you to search for specific categories using their name.
- View All Categories**
 - Displays a list of all categories sorted by name.
- Update Category Information**
 - Enables you to edit details of an existing category.

How to Use the Page

1. View All Categories

- Upon loading the page, all categories are automatically fetched and displayed in a grid.
- Each category card contains:
 - Name
 - Description
 - An Update button to edit the category information.

2. *Create a New Category*

- Click the Create New Category button at the top of the page.
- A modal form will appear:
 1. Fill in the fields:
 - Category Name
 - Category Description
 2. Click Save to submit the new category.
- The modal will close, and the category list will refresh to include the new category.

3. *Search for a Category*

- Enter the category name in the Search Category by Name field.
- Click the Search Category button.
- If found, the category details will appear below the search section. The details include:
 - Name
 - Description
 - An Update button.
- If no category is found, a warning message will be displayed.

4. *Update an Existing Category*

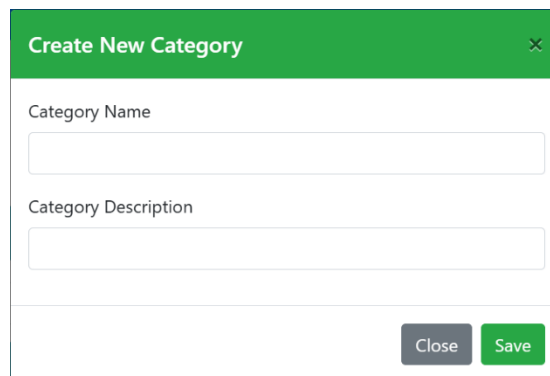
- Click the Update button on the desired category's card.
- A modal will appear pre-filled with the category's current information:
 1. Modify the fields as necessary:
 - Name
 - Description
 2. Click Update to save the changes.
- The modal will close, and the category list will refresh to reflect the updated information.

Error Handling

- ***Failed to Fetch Categories***
 - If categories cannot be loaded, an alert will notify you. Check your internet connection or contact support.
 - ***Failed to Save or Update a Category***
 - Ensure all fields are filled in correctly.
 - If the error persists, verify that the backend server is running properly.
 - ***No Category Found in Search***
 - Ensure the name entered is correct.
 - If the category still does not appear, it might not exist in the database.
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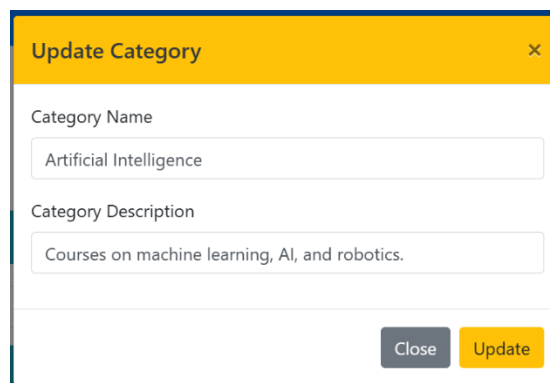
Technical Notes

- Modal Forms:
 - Create Category: For adding new categories.



A modal form titled "Create New Category" with a green header bar and a close button (X) in the top right corner. The form contains two text input fields: "Category Name" and "Category Description". At the bottom right, there are two buttons: "Close" (grey) and "Save" (green).

- Update Category: For modifying existing category data.



A modal form titled "Update Category" with a yellow header bar and a close button (X) in the top right corner. The form contains two text input fields: "Category Name" (with the value "Artificial Intelligence") and "Category Description" (with the value "Courses on machine learning, AI, and robotics."). At the bottom right, there are two buttons: "Close" (grey) and "Update" (yellow).

Additional Tips

- Use the search function to quickly locate specific categories, especially when managing large datasets.
- After any create or update action, the page will automatically refresh to display the latest data.

Student page

The Student Page is designed to help users easily manage student records. Below is a comprehensive guide on how to navigate and use the page features.

Student Management

Create New Student

Search Student by Name

Enter student name

Search Student

Alice Johnson

alice.j@example.com

Date of Birth: 2002-05-15

Update

Bob Williams

bob.w@example.com

Date of Birth: 1999-11-25

Update

Charlie Brown

charlie.b@example.com

Date of Birth: 2003-02-10

Update

Diana Clark

diana.c@example.com

Date of Birth: 2000-07-22

Update

Ethan Davis

ethan.d@example.com

Date of Birth: 2001-09-18

Update

Fiona Martinez

fiona.m@example.com

Date of Birth: 2000-12-03

Update

Main Features

- Create New Student**
 - Allows you to add a new student to the database.
- Search Student by Name**
 - Enables you to search for specific students using their name.
- View All Students**
 - Displays a list of all students sorted by name.
- Update Student Information**
 - Enables you to edit details of an existing student.

How to Use the Page

1. View All Students

- Upon loading the page, a list of all students is automatically displayed.
- Each student card contains:
 - Name
 - Email
 - Date of Birth

- An Update button for editing the student's information.

2. Create a New Student

- Click the "Create New Student" button at the top of the page.
- A modal form will appear:
 1. Fill in the fields:
 - Student Name
 - Student Email
 - Date of Birth
 2. Click Save to submit.
- The modal will close, and the student list will refresh to include the new student.

3. Search for a Student

- Enter the student's name in the "Search Student by Name" field.
- Click Search Student to initiate the search.
- The results will appear below the search section, displaying student details if found.
- If no student is found, an alert will be shown.

4. Update an Existing Student

- Click the Update button on the student's card.
- The Update Student modal will appear, pre-filled with the student's current information.
 1. Modify the fields as necessary:
 - Name
 - Email
 - Date of Birth
 2. Click Update to save the changes.
- The modal will close, and the student list will refresh with updated information.

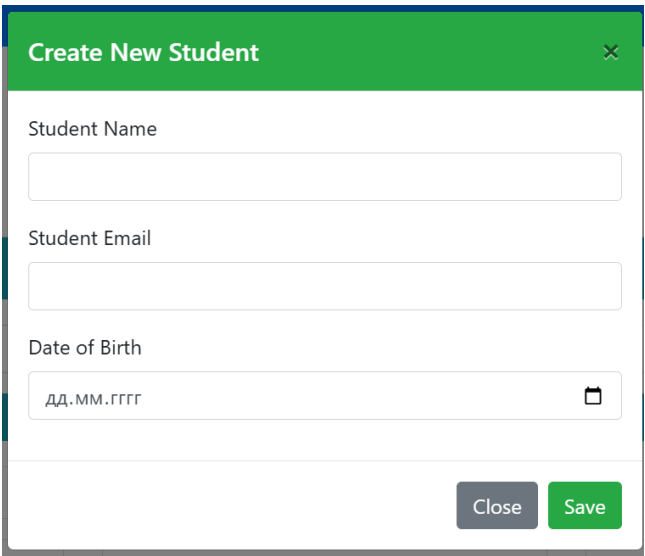
Error Handling

- ***Failed to Fetch Students***
 - If the students cannot be loaded, an alert will notify you. Please check your internet connection or contact support.
 - ***Failed to Save or Update Student***
 - Ensure all fields are filled in correctly.
 - If the error persists, verify that the backend server is running properly.
 - ***No Student Found in Search***
 - Ensure the name entered is correct.
 - If the student still does not appear, they might not exist in the database.
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Technical Notes

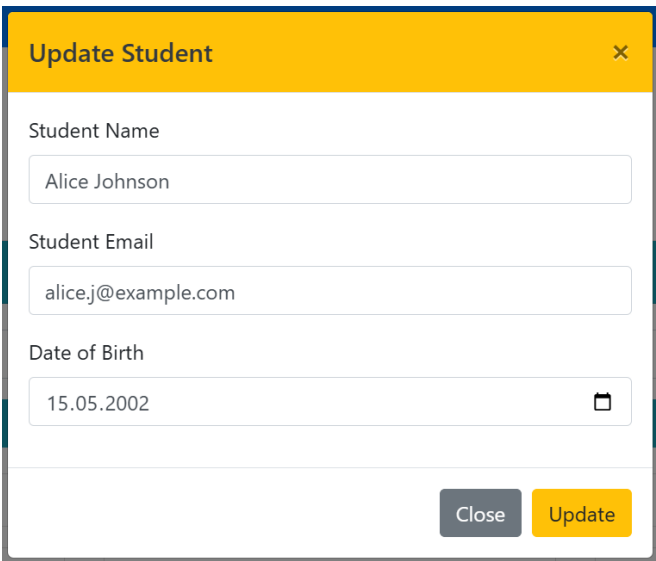
- **Modal Forms:**

- Create Student: For adding new students.



A modal form titled "Create New Student" with a green header bar. It contains three input fields: "Student Name", "Student Email", and "Date of Birth" (with a date picker icon). At the bottom right, there are two buttons: "Close" (grey) and "Save" (green).

- Update Student: For modifying existing student data.



A modal form titled "Update Student" with a yellow header bar. It contains three input fields: "Student Name" (pre-filled with "Alice Johnson"), "Student Email" (pre-filled with "alice.j@example.com"), and "Date of Birth" (pre-filled with "15.05.2002" and a date picker icon). At the bottom right, there are two buttons: "Close" (grey) and "Update" (yellow).

Additional Tips

- Use the search function to quickly locate specific students, especially when managing large datasets.
- After any create or update action, the page will automatically refresh to show the latest data.

Feedback Page

The Feedback Management page is a tool designed to help users easily manage course and student feedback records. This guide provides an overview of the main features, instructions on how to navigate and use the page, error handling, and technical notes.

Feedback Management

Search Feedback

Search by Course Name

Enter Search Term

Search Feedback

Sort by

Date

Sort Feedbacks

Alice Johnson - aaaaaa

Rating: 4.5

Comment: Great introduction to Python programming.

Date: 2024-12-10

UpdateDelete

Alice Johnson - Machine Learning Basics

Rating: 5

Comment: Very detailed and easy to follow.

Date: 2024-12-10

UpdateDelete

Bob Williams - Advanced Web Development

Rating: 3.8

Comment: Good course but could use more examples.

Date: 2024-12-10

UpdateDelete

Main Features

- Search Feedback**
 - Functionality: Allows users to search for feedback entries based on either the course name or student name.
- View All Feedbacks**
 - Functionality: Displays a list of all feedback entries sorted by either date or rating.
- Update Feedback Information**
 - Functionality: Enables users to edit details of an existing feedback entry.
- Delete Feedback**
 - Functionality: Allows users to remove feedback entries from the list.

How to Use the Page

- View All Feedbacks**
 - Upon loading the page, a list of all feedback entries is automatically displayed.
 - Each feedback card includes:
 - Student Name
 - Course Name
 - Rating
 - Comment
 - Date
 - An "Update" button for editing the feedback.
- Search Feedback**

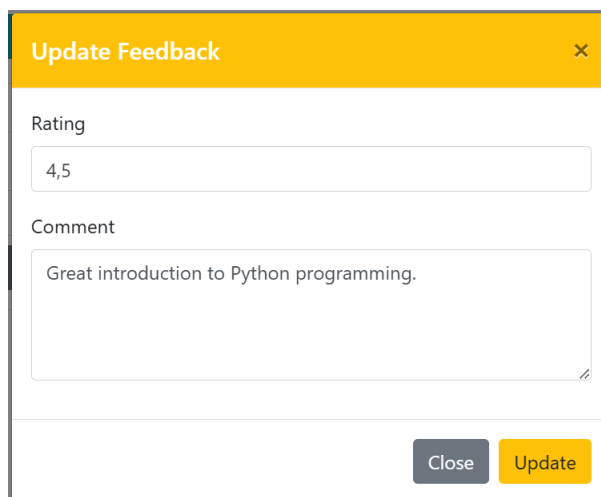
- Select the type of search from the dropdown (Course Name or Student Name).
 - Enter the search term in the text box.
 - Click the Search Feedback button.
 - The results will appear below the search section, displaying feedback details if found.
 - If no feedback is found, an alert will be shown.
3. **Update an Existing Feedback**
- Click the "Update" button next to the feedback entry you wish to modify.
 - The "Update Feedback" modal will appear, pre-filled with the current feedback details.
 - Modify the fields as necessary:
 - Rating: Adjust the feedback rating (1.0 to 5.0, with 0.1 increments).
 - Comment: Update the feedback comment.
 - Click Update to save the changes.
 - The modal will close, and the feedback list will refresh with updated information.
4. **Delete Feedback**
- Click the "Delete" button next to the feedback entry you want to delete.
 - A confirmation prompt will appear:
 - Click OK to confirm deletion.
 - Click Cancel to abort.
 - The feedback entry will be removed from the list if confirmed.

Error Handling

- **Failed to Fetch Feedbacks:**
 - If the feedback data cannot be loaded, an alert will notify you. Please check your internet connection or contact support.
- **Failed to Save or Update Feedback:**
 - Ensure all fields are filled in correctly.
 - If the error persists, verify that the backend server is running properly.
- **No Feedback Found in Search:**
 - Ensure the search term is entered correctly.
 - If the feedback still does not appear, it may not exist in the database.

Technical Notes

- **Modal Forms:**
 - Update Feedback: Opens a modal for modifying existing feedback details.



The image shows a modal window titled "Update Feedback" with a yellow header bar and a close button (X) in the top right corner. The modal contains two input fields: a "Rating" field with a text input showing "4,5" and a "Comment" field with a text area containing "Great introduction to Python programming." At the bottom right of the modal, there are two buttons: a grey "Close" button and a yellow "Update" button.

Additional Tips

- Use the search function to quickly locate specific feedback entries, especially when managing large datasets.
- After any create or update action, the page will automatically refresh to show the latest data.

Instructor Page

The Instructor Page provides a centralized system for managing instructors in a course database. This user guide will help you navigate and use the various features available on this page.

Instructor Management

[Create New Instructor](#)

Search Instructor by Name

Search Instructor

David Johnson

david.j@example.com

AWS and Azure expert with a knack for scalable solutions.

Update

Emily Clark

emily.c@example.com

PMP-certified professional with a focus on agile methodologies.

Update

Jane Smith

jane.smith@example.com

Full-stack web developer and coding enthusiast.

Update

John Doe

john.doe@example.com

Experienced data scientist with 10+ years in the field.

Laura Wilson

laura.w@example.com

Creative designer with a passion for user experience.

Michael Brown

michael.b@example.com

Expert in AI and robotics, PhD in Computer Science.

Main Features

- Create New Instructor:**
 - Allows you to add a new instructor to the database.
- Search Instructor by Name:**
 - Enables you to find specific instructors by their name.
- View All Instructors:**
 - Displays a list of all instructors sorted by name.
- Update Instructor Information:**
 - Allows you to edit details of an existing instructor.

How to Use the Page

- View All Instructors:**
 - Upon loading the page, a list of all instructors is displayed.
 - Each instructor's information is presented in a card format containing:
 - Name
 - Email
 - Bio
 - An Update button to edit the instructor's information.
- Create a New Instructor:**

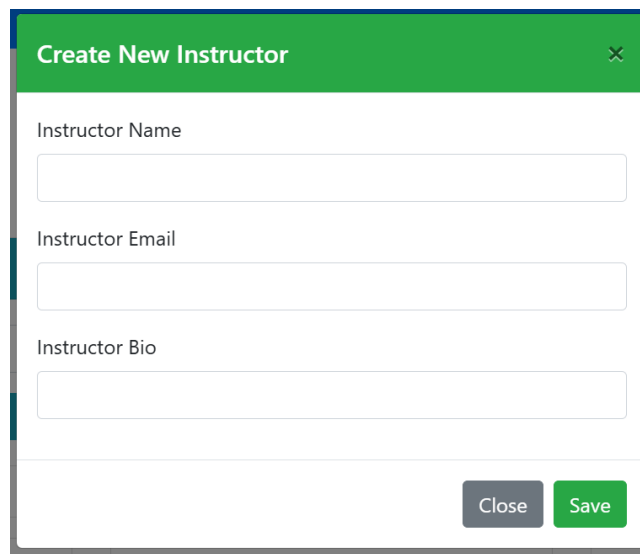
- Click the "Create New Instructor" button at the top of the page.
 - A modal form will appear:
 - Fill in the fields:
 - Instructor Name: Enter the full name of the instructor.
 - Instructor Email: Enter the email address of the instructor.
 - Instructor Bio: Provide a brief biography of the instructor.
 - Click "Save" to submit.
 - The modal will close, and the instructor list will refresh to include the new instructor.
3. ***Search for an Instructor:***
- Enter the instructor's name in the "Search Instructor by Name" field.
 - Click "Search Instructor" to initiate the search.
 - The results will appear below the search section, displaying the instructor's details if found.
 - If no instructor is found, an alert will be shown.
4. ***Update an Existing Instructor:***
- Click the "Update" button on the instructor's card.
 - The Update Instructor Modal will appear, pre-filled with the instructor's current information.
 - Modify the fields as necessary:
 - Name: Update the instructor's name if necessary.
 - Email: Update the instructor's email if necessary.
 - Bio: Update the instructor's biography if necessary.
 - Click "Update" to save the changes.
 - The modal will close, and the instructor list will refresh with the updated information.

Error Handling

- ***Failed to Fetch Instructors:***
 - If the instructors cannot be loaded, an alert will notify you. Please check your internet connection or contact support.
 - ***Failed to Save or Update Instructor:***
 - Ensure all fields are filled in correctly.
 - If the error persists, verify that the backend server is running properly.
 - ***No Instructor Found in Search:***
 - Ensure the name entered is correct.
 - If the instructor still does not appear, they might not exist in the database.
-

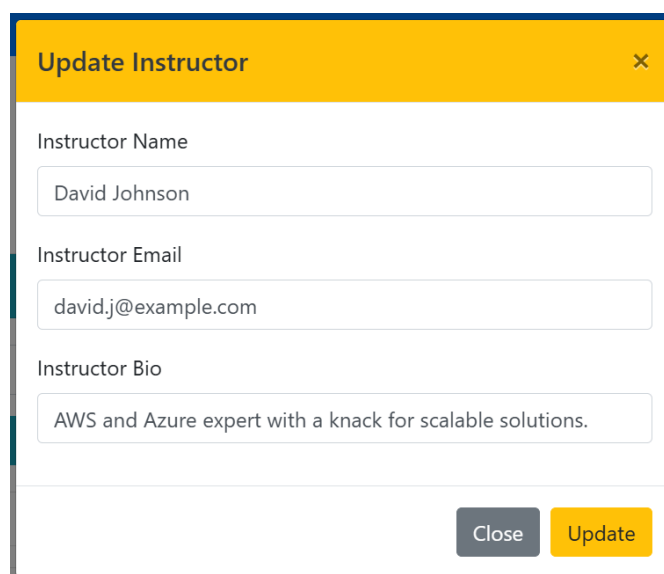
Technical Notes

- **Modal Forms:**
 - Create Instructor: For adding new instructors.



A modal form titled "Create New Instructor" with a green header bar and a close button (X) in the top right corner. The form contains three text input fields: "Instructor Name", "Instructor Email", and "Instructor Bio". At the bottom right, there are two buttons: a grey "Close" button and a green "Save" button.

- Update Instructor: For modifying existing instructor data.



A modal form titled "Update Instructor" with a yellow header bar and a close button (X) in the top right corner. The form contains three text input fields: "Instructor Name" (pre-filled with "David Johnson"), "Instructor Email" (pre-filled with "david.j@example.com"), and "Instructor Bio" (pre-filled with "AWS and Azure expert with a knack for scalable solutions."). At the bottom right, there are two buttons: a grey "Close" button and a yellow "Update" button.

Additional Tips

- Use the search function to quickly locate specific instructors, especially when managing large datasets.
- After any create or update action, the page will automatically refresh to show the latest data.

Course Page

The Course Page is designed to help users efficiently manage and oversee courses within the system. This guide provides a comprehensive overview of the features available and how to use them effectively.

Course Management

Create New Course

Search by

Title

Enter search term

Search Courses

Sort by

Duration

Sort Courses

Design Thinking
Learn the principles of design thinking.
Instructor: Laura Wilson
Category: UI/UX Design
Duration: 25 hour
Average Rating: 0
Enrollments: 1

Agile Project Management
Master agile project management methodologies.
Instructor: Emily Clark
Category: Project Management
Duration: 35 hour
Average Rating: 0

Machine Learning Basics
An introduction to machine learning concepts.
Instructor: John Doe
Category: Data Science
Duration: 40 hour
Average Rating: 0

Main Features

- Create New Course:**
 - Allows you to add a new course to the system.
 - Search Courses:**
 - Enables you to find courses based on different criteria (Title, Category, Instructor Name, Student Name).
 - Sort Courses:**
 - Allows you to organize courses by various attributes such as Duration, Price, Enrollments, and Rating.
 - View All Courses:**
 - Displays a list of all courses with their details.
 - Update Course Information:**
 - Enables you to modify details of an existing course.
 - Enroll Students:**
 - Allows students to enroll in courses directly from the management page.
 - Unenroll Students:**
 - Allows students to unenroll from courses directly from the management page.
 - Write Feedback:**
 - Enables instructors and students to provide feedback on courses.
-

How to Use the Page

1. *View All Courses:*

- Upon loading the page, a list of all courses is displayed.
- Each course card contains:
 - Title
 - Description
 - Instructor Name
 - Category
 - Duration
 - Average Rating
 - Total Enrollments
 - Creation Date
 - Price
 - Action buttons for updating course details, enrolling in the course, and writing feedback.

2. *Create a New Course:*

- Click the "Create New Course" button at the top-right corner of the page.
- A modal form will appear:
 1. Fill in the fields:
 - Course Title
 - Course Description
 - Instructor Name
 - Category Name
 - Duration (in hours)
 - Price
 2. Click Save to submit.
- The modal will close, and the course list will refresh to include the new course.

3. *Search for Courses:*

- Use the "Search by" dropdown to select a criteria (Title, Category, Instructor, Student Name).
- Enter the search term in the "Enter search term" field.
- Click the "Search Courses" button.
- The results will appear below the search section, showing matching courses.
- If no courses are found, an alert will notify you.

4. *Sort Courses:*

- Use the "Sort by" dropdown to select a sorting criteria (Duration, Price, Enrollments, Rating).
- Click the "Sort Courses" button.
- The courses will be displayed in the specified order.
- You can then view detailed information for each course.

5. *Update Course Information:*

- Click the "Update" button on the course card of the course you want to edit.
- The Update Course modal will appear, pre-filled with the course's current information.
 0. Modify the fields as necessary:
 - Title
 - Description
 - Instructor Name
 - Category Name
 - Duration (in hours)
 - Price

1. Click Update to save the changes.
 - The modal will close, and the course list will refresh with updated information.
6. **Enroll Students in a Course:**
 - Click the "Enrollment" button on the course card of the course you want to enroll students in.
 - The Enrollment modal will appear.
 - Enter the student's name in the "Student Name" field.
 - The course name and category will be automatically filled in.
 - Click Enroll Me to confirm enrollment.
 - The modal will close, and the course list will be updated with the new enrollment count.
7. **Unenroll Students from a Course:**
 - Click the "Enrollment" button on the course card of the course you want to unenroll students from.
 - The Enrollment modal will appear.
 - Enter the student's name in the "Student Name" field.
 - The course name and category will be automatically filled in.
 - Click Unenroll Me to confirm enrollment.

The modal will close, and the course list will be updated with the new enrollment

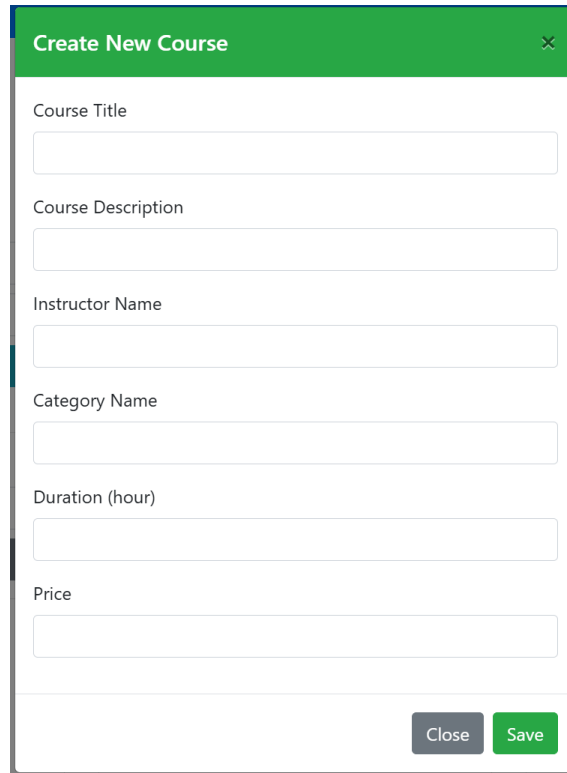
8. **Write Feedback:**
 - Click the "Write Comment" button on the course card of the course you want to provide feedback for.
 - The Write Feedback modal will appear.
 - Fill in the fields:
 - Student Name (if applicable)
 - Comment (feedback text)
 - Rating (between 1.0 and 5.0)
 - Click Submit Feedback to save your comments.
 - The modal will close, and feedback will be displayed with the course details.

Error Handling

- **Failed to Fetch Courses:**
 - If the courses cannot be loaded, an alert will notify you. Please check your internet connection or contact support.
- **Failed to Save or Update Course:**
 - Ensure all fields are filled in correctly.
 - If the error persists, verify that the backend server is running properly.
- **Failed to Enroll or Unenroll:**
 - Ensure all fields are filled in correctly.
 - If the error persists, verify that the backend server is running properly.
- **Failed to Write Feedback:**
 - Ensure all fields are filled in correctly.
 - If the error persists, verify that the backend server is running properly.
- **No Course Found in Search:**
 - Ensure the search term is entered correctly.
 - If the course still does not appear, it may not exist in the database.

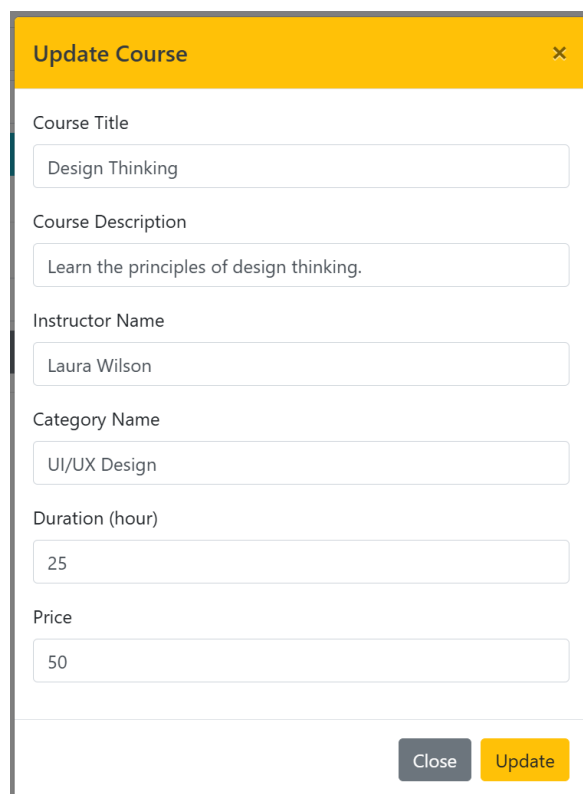
Technical Notes

- **Modal Forms:**
 - Create Course: For adding new courses.



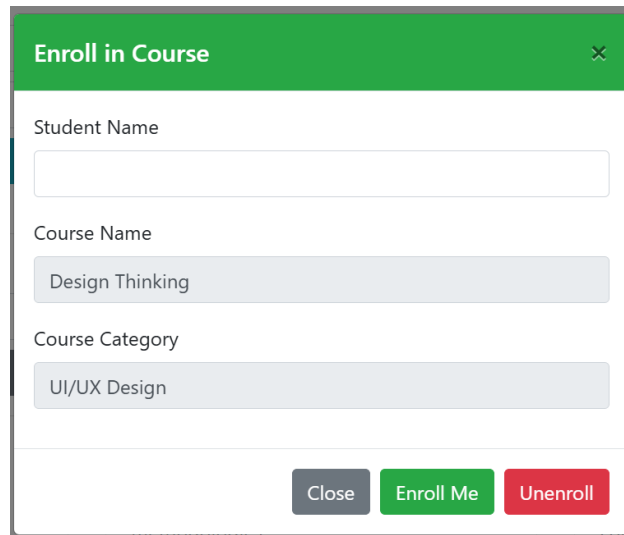
A modal form titled "Create New Course" with a green header bar. It contains six text input fields for "Course Title", "Course Description", "Instructor Name", "Category Name", "Duration (hour)", and "Price". At the bottom right, there are two buttons: "Close" (grey) and "Save" (green).

- Update Course: For modifying existing course data.



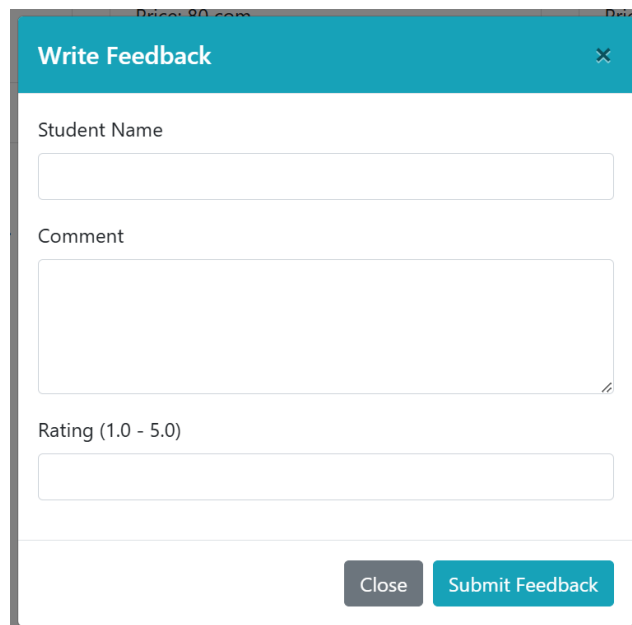
A modal form titled "Update Course" with a yellow header bar. It contains six text input fields with pre-filled data: "Course Title" (Design Thinking), "Course Description" (Learn the principles of design thinking.), "Instructor Name" (Laura Wilson), "Category Name" (UI/UX Design), "Duration (hour)" (25), and "Price" (50). At the bottom right, there are two buttons: "Close" (grey) and "Update" (yellow).

- Enrollment: For enrolling or unenrolling students in courses.



The 'Enroll in Course' dialog box features a green header with a close button (X). It contains three input fields: 'Student Name' (a standard text box), 'Course Name' (a dropdown menu showing 'Design Thinking'), and 'Course Category' (a dropdown menu showing 'UI/UX Design'). At the bottom, there are three buttons: 'Close' (grey), 'Enroll Me' (green), and 'Unenroll' (red).

- Write Feedback: For providing comments and ratings.



The 'Write Feedback' dialog box has a teal header with a close button (X). It includes three input fields: 'Student Name' (a standard text box), 'Comment' (a larger text area with a small icon at the bottom right), and 'Rating (1.0 - 5.0)' (a standard text box). The bottom of the dialog features two buttons: 'Close' (grey) and 'Submit Feedback' (teal).

Additional Tips

- Use the search function to quickly locate specific courses, especially when managing large datasets.
- After any create or update action, the page will automatically refresh to show the latest data.