Learning Management System Official User Guide

Application Setup

Running Backend

- 1. Open a terminal
- 2. Navigate to the backend directory
- 3. Within the directory, execute the command: node server.js

This will run the LMS' backend component on port 3000.

Running Backend

- 1. Open a terminal
- 2. Navigate to the frontend directory
- 3. Ensure that *npm* is installed on the frontend server
 - a. Run npm install to install all the necessary packages
 - ** This step only needs to be done once
- 4. Execute the command: npm start to run the frontend component on port 3001

Signing In

Once the system is running within a browser, you will need to sign in to make any changes.

- 1. Navigate to the top of the webpage
- 2. Input the following information:

a. Username: ADMIN

b. Password: ADMIN

Common Troubleshooting Problems

Here are some common issues associated with server setup:

Backside Errors on MacOS

If the backend throws an error upon startup, ensure that:

• XCode is installed and up to date

If the issue persists, try reinstalling express cors sqlite3

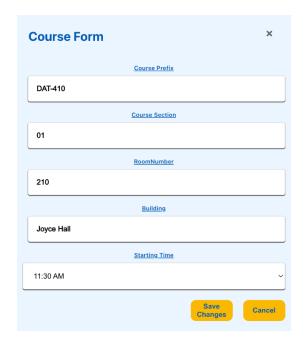
Course Management

Create a Course

- 1. Navigate to the Course Management section
- 2. Click the Add Course button

This will produce a pop-up form

To create a course for: Section 1 of Machine Learning (DAT-410) that meets in Joyce Hall room 210 and starts at 11:30, fill out the form like so:



Update a Course

In the event that course information has changed:

- 1. Navigate to the Course Management Section
- 2. Find the course you need to update
- 3. Click on the Edit button within the Actions Column

A pop-up form will appear:

- 4. Navigate to the information that you wish to change.
- 5. Make your alterations.
- 6. Click Save Changes at the bottom of the form to amend your changes.

Delete a Course

In the event that a course must be removed from the system:

- 1. Navigate to the course you intend to delete
- 2. Within the Actions column: find the Delete button
- 3. Click the Delete button

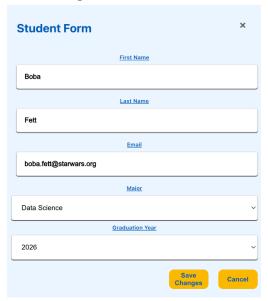
Student Management

Create a Student

- 1. Navigate to the Student Management section
- 2. Click Add Student

This will produce a form pop-up and allow you to enter the student's information.

To create a 2026 Data Science student named Boba Fett, with an associated email of boba.fett@starwars.org, follow this image:



Update a Student

- 1. Navigate to the Student Management section
- 2. Identify the Student you are looking to make changes to
- 3. Within that row, navigate to the Actions column
- 4. Select the Edit button.

By default, the values will be autofilled, allowing you to edit specific information without the need to retype all of the student's data.

- 5. Make the necessary changes
- 6. Select: Save Changes to append your changes to the Student Database.

Delete a Student

To remove a student who has left the school:

- 1. Navigate to the Student Management Section
- 2. Find the specific student within the table.
- 3. Navigate to the Actions Column for that student
- 4. Select delete to remove the student from the database.

Grades Management

Add Student Grades

To add associated grades to a student profile

- 1. Navigate to the Student Grades Management section.
- 2. Select: Add Student's Grades

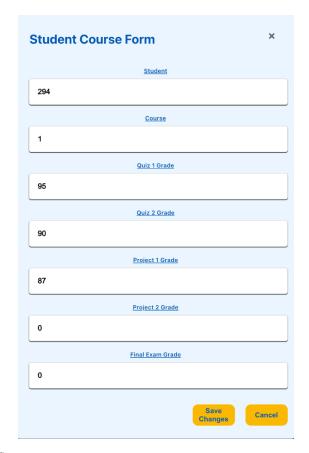
This will create a pop-up form.

To input values for a specific student,

- 3. Identify the associated StudentID value.
 - a. With the case of our previous student: Boba Fett's student ID is 294
- 4. Identify the CourseID for the class associated with the grades.
 - a. In this case, DAT-210 has a CourseID of 1
- 5. Fill the associated grades following the image below:



- Note that if a student has yet to complete an assignment or an assignment has yet to be assigned:
- Input a 0 for those grades



Update Student Grades

To update grades associated with a specific student:

- 1. Navigate to the Student Grades Management section.
- 2. Find the specific student you wish to edit:
- 3. Navigate to the Actions column
- 4. Select Edit

This will create a pop-up window.

- 5. Make the necessary changes
- 6. Select Save Changes to append your grade changes

Delete Student Grades

To remove a student's listed grades:

- 1. Identify the specific students-grades within the Student Grades Management section.
- 2. Navigate to that student's Action column
- 3. Select delete

Student's Courses Management

Associate a Student With a Course

To associate a specific student with a specific course:

- 1. Navigate to the Student's Courses Management section
- 2. Select Add Student Courses

This will create a pop-up window.

- 3. Within the pop-up window:
- 4. Click the Select Student dropdown
- 5. Select the desired student
- 6. Then click the Select Course dropdown
- 7. Select the desired course
- 8. Click Save Changes to confirm your changes

Update a Student-Course Pair

Navigate to the Student's Courses Management section:

- 1. Identify the Student-Course pair you wish to update
- 2. Within that row, select Edit

This will produce a pop-up window.

- 3. Make your necessary changes.
- 4. Click Save Changes to confirm your updates

Delete a Student-Course Pair

- 1. Navigate to the Student's Courses Management section
- 2. Identify the Student-Course pair you wish to delete
- 3. Within that row, select Delete