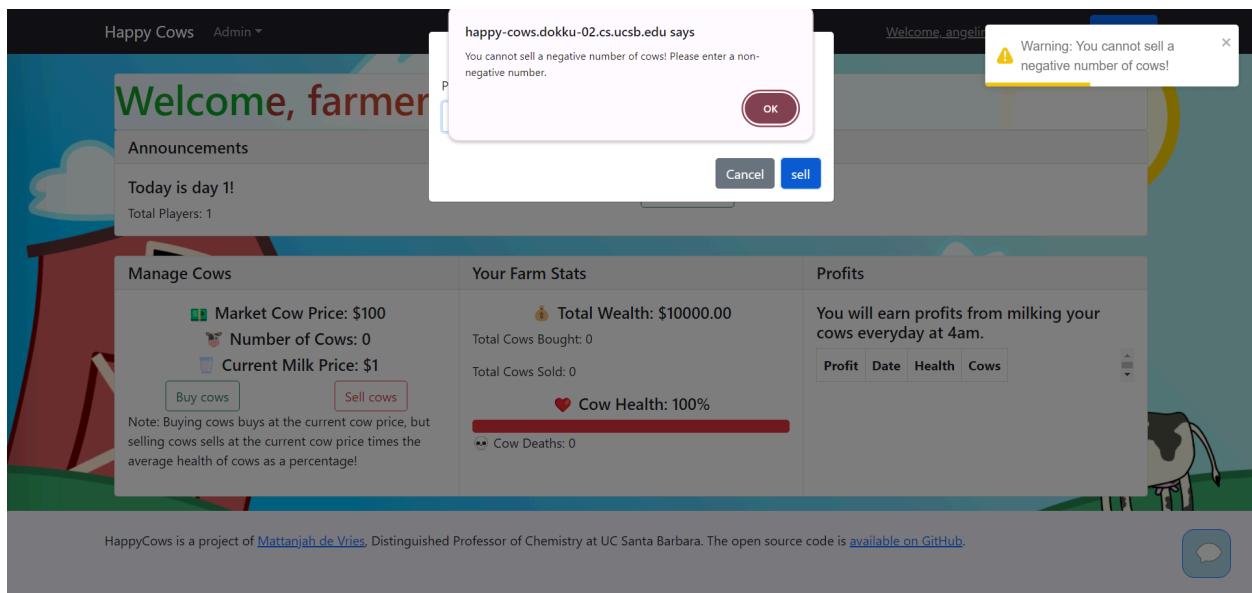
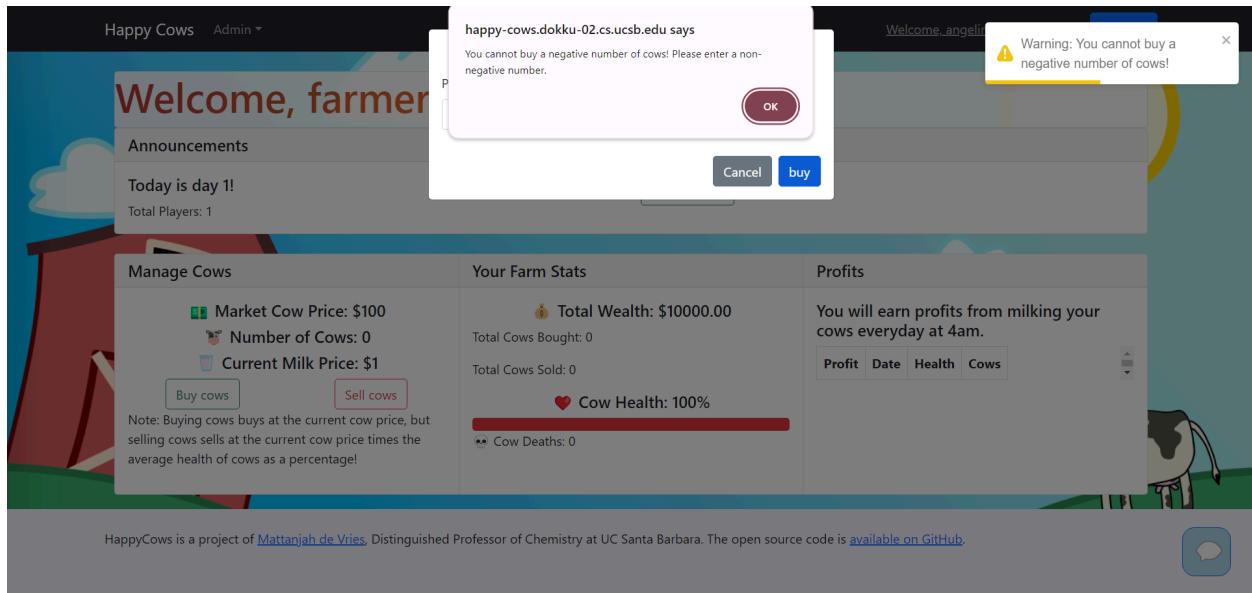


# w24-4pm-2 release notes

## User Notes

Here is a summary of changes made to the user experience

1. Users are no longer able to buy or sell negative cows. Any attempts to do so will result in a warning and no changes to the game state.



2. Admins can now control whether regular users can access the chat, via the showChat property. This property can be changed in the create flow and the edit flow as shown below:

Create Commons

Commons Name Starting Balance  
10000

Cow Price Milk Price  
100 1

Degradation Rate Carrying Capacity Capacity Per User  
0.001 100 50

Starting Date Last Date  
03/07/2024 04/06/2024

Health update formula

When above capacity When below capacity  
Linear Linear

Show Leaderboard? Show Chat?

Create

The screenshot shows a web application interface for managing commons. At the top, there's a navigation bar with tabs for 'Happier Cows', 'Swagger UI', 'H2 Console', 'Pull requests · ucsb-cs156-w2...', 'Swagger UI', and 'Comparing main...add-showCh...'. Below the navigation bar, the user is logged in as 'kylekumar@ucsb.edu'.

The main content area is titled 'Edit Commons' and contains the following fields:

- Id:** A text input field containing the value '4'.
- Commons Name:** A text input field containing 'no chat'.
- Starting Balance:** A text input field containing '10000'.
- Cow Price:** A text input field containing '100'.
- Milk Price:** A text input field containing '1'.
- Degradation Rate:** A text input field containing '0.001'.
- Carrying Capacity:** A text input field containing '100'.
- Capacity Per User:** A text input field containing '50'.
- Starting Date:** A text input field containing '02/23/2024'.
- Last Date:** A text input field containing '03/06/2024'.

Below these fields is a section titled 'Health update formula'.

Under 'Health update formula':

- When above capacity:** A dropdown menu set to 'Linear'.
- When below capacity:** A dropdown menu set to 'Linear'.
- Show Leaderboard?**: An unchecked checkbox.
- Show Chat?**: An unchecked checkbox.

At the bottom of the form is a blue button labeled 'Update'.

As a result of the showChat field the chat will either be visible or hidden to regular users, as shown in the screenshots below.

## Chat Visible:

The screenshot shows a web browser window for the "Happier Cows" application at [localhost:8080/play/3](http://localhost:8080/play/3). The page is titled "Happy Cows" and includes links for "H2Console", "Swagger", and "Admin". The user is logged in as "Welcome, kylekumar@ucsb.edu" and has the option to "Log Out".

The main content area features a large red header "Hello there, skilled farmer Kyle!". Below it is a section titled "Announcements" with the message "Today is day 2!" and "Total Players: 2". A green "Leaderboard" button is located in the top right of this section.

The central part of the page is divided into three columns:

- Manage Cows**: Shows "Market Cow Price: \$100", "Number of Cows: 0", and "Current Milk Price: \$1". It includes "Buy cows" and "Sell cows" buttons. A note states: "Note: Buying cows buys at the current cow price, but selling cows sells at the current cow price times the average health of cows as a percentage!"
- Your Farm Stats**: Displays "Total Wealth: \$10000.00", "Total Cows Bought: 0", "Total Cows Sold: 0", and "Cow Health: 100%". It also shows "Cow Deaths: 0".
- Profits**: A table showing profit data over time. The table has columns for Profit, Date, Health, and Cows. All entries show \$0.00, 2024-03-02, 100%, and 0 respectively.

A blue speech bubble icon is positioned on the right side of the page.

Chat Hidden:

The screenshot shows a web browser window for the "Happier Cows" application at `localhost:8080/play/3`. The top navigation bar includes links for "Happy Cows", "H2Console", and "Swagger". On the right, there is a welcome message "Welcome, kylebkumar@gmail.com" and a "Log Out" button.

The main content area features a large green header "The fields are alive with possibilities farmer Kyle!". Below it is a section titled "Announcements" with the message "Today is day 2!" and "Total Players: 2".

The central part of the interface is divided into three columns:

- Manage Cows**: Shows "Market Cow Price: \$100", "Number of Cows: 0", and "Current Milk Price: \$1". It includes "Buy cows" and "Sell cows" buttons. A note states: "Note: Buying cows buys at the current cow price, but selling cows sells at the current cow price times the average health of cows as a percentage!"
- Your Farm Stats**: Displays "Total Wealth: \$10000.00", "Total Cows Bought: 0", "Total Cows Sold: 0", and "Cow Health: 100%". It also shows "Cow Deaths: 0".
- Profits**: A table showing profit data over time. The table has columns for Profit, Date, Health, and Cows. The data is as follows:

Profit	Date	Health	Cows
\$0.00	2024-03-02	100%	0
\$0.00	2024-03-02	100%	0
\$0.00	2024-03-02	100%	0
\$0.00	2024-03-02	100%	0
\$0.00	2024-03-02	100%	0
\$0.00	2024-03-02	100%	0
\$0.00	2024-03-02	100%	0
\$0.00	2024-03-02	100%	0
\$0.00	2024-03-02	100%	0
\$0.00	2024-03-02	100%	0

API endpoints also respect this field and throw a 403 if a regular user tries to access a chat in a commons with `showChat` set to false. Admins can continue to access chats via the API and UI with no matter the value of the field.

3. API Endpoints for Announcements (associated with each commons) are set up, but not yet integrated into the app.

### Announcements

**PUT** /api/announcements/put Edit an announcement

Edit an announcement by its id.

**Parameters**

Name	Description
<b>id</b> * required integer(\$int64) (query)	The id of the announcement <input type="text" value="id"/>
<b>commonsid</b> * required integer(\$int64) (query)	The id of the common <input type="text" value="commonsid"/>
<b>startDate</b> string(\$date-time) (query)	The datetime at which the announcement will be shown (defaults to current time) <input type="text" value="startDate"/>
<b>endDate</b> string(\$date-time) (query)	The datetime at which the announcement will stop being shown (optional) <input type="text" value="endDate"/>
<b>announcementText</b> * required string (query)	The announcement to be sent out <input type="text" value="announcementText"/>

**Execute**

### Announcements

**PUT** /api/announcements/put Edit an announcement

**POST** /api/announcements/post Create an announcement

**GET** /api/announcements/getbyid Get announcements by id

**GET** /api/announcements/getbycommonid Get all announcements

**DELETE** /api/announcements/delete Delete an announcement

4. Frontend components to show a Table of announcements and a Form to create/edit an announcement are set up, but also not yet integrated.

The screenshot shows two separate Storybook components side-by-side.

**Top Component: AnnouncementTable**

This component displays a table of announcements. The table has columns: id, Start Date ISO Format, End Date ISO Format, and Announcement. The data is as follows:

id	Start Date ISO Format	End Date ISO Format	Announcement
1	2024-12-12T00:00:00	2025-12-12T00:00:00	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce id hendrerit est. Ma
2	2022-12-12T00:00:00		This is a test announcement for commons id 1. This one doesn't have an end date.
3	2024-11-12T00:00:00	2025-10-12T00:00:00	This is another test announcement for commons id 1. This one does have an end d

**Bottom Component: AnnouncementForm**

This component is a form for updating an announcement. It includes fields for Id, Start date, End date, and Announcement, along with Update and Cancel buttons.

**Component Tree:**

- COMMONS
  - Jobs
  - Utils
  - Announcement
    - AnnouncementForm
    - AnnouncementTable
    - Empty
    - Three Items Ordinary User
    - Three Items Admin User
- LAYOUTS
  - BasicLayout
- PAGES
  - AdminCreateCommonsPage
  - AdminJobsPage
  - AdminUtilsPage
  - AdminReportsPage
  - AdminViewReportPage
  - HomePage
  - LeaderboardPage
  - LoginPage
  - NotFoundPage
  - PlayPage

5. The leaderboard is now centered.

Farmer	Total Wealth	Cows Owned	Cow Health	Cows Bought	Cows Sold	Cow Deaths
<a href="#">Angelina Suy</a>	\$10,000.00	0	100	0	0	0
<a href="#">Ritu Kirsur</a>	\$10,000.00	0	100	0	0	0

HappyCows is a project of [Mattanah de Vries](#), Distinguished Professor of Chemistry at UC Santa Barbara. The open source code is [available on GitHub](#).

6. Users are now unable to join a commons with a future start date.

localhost:8080 says

This commons has not started yet and cannot be joined.  
The starting date is 3/3/2024

OK

ID#	Common's Name	
1	test	<a href="#">Visit</a>
2	test2	<a href="#">Visit</a>
3	test3	<a href="#">Visit</a>
4	test4	<a href="#">Visit</a>

ID#	Common's Name	
5	test5	<a href="#">Join</a>

HappyCows is a project of [Mattanah de Vries](#), Distinguished Professor of Chemistry at UC Santa Barbara. The open source code is [available on GitHub](#).

7. Users can now have tables that can be used through pagination to show data tables in chunks

<b>id</b>	<b>Name</b>	<b>Cow Price</b>	<b>Milk Price</b>	<b>Start Bal</b>	<b>Starting Date</b>	<b>Last Date</b>	<b>Degrad Rate</b>	<b>Show LrdrBrd?</b>	<b>Tot Cows</b>	<b>Cap / User</b>	<b>Carry Cap</b>	<b>Eff Cap</b>	<b>Edit</b>	<b>Delete</b>	<b>Leaderbo</b>
1	1	100	1	10000	2024-03-09	2024-04-08	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo
2	2	100	1	10000	2024-03-09	2024-04-08	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo
3	3	100	1	10000	2024-03-09	2024-04-08	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo
4	4	100	1	10000	2024-03-09	2024-04-08	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo
5	5	100	1	10000	2024-03-09	2024-04-08	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo
6	6	100	1	10000	2024-03-09	2024-04-08	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo
7	7	100	1	10000	2024-03-09	2024-04-08	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo
8	8	100	1	10000	2024-03-09	2024-04-08	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo
9	9	100	1	10000	2024-03-09	2024-04-08	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo
10	10	100	1	10000	2024-03-09	2024-04-08	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo

< 1 2 >

<b>id</b>	<b>Name</b>	<b>Cow Price</b>	<b>Milk Price</b>	<b>Start Bal</b>	<b>Starting Date</b>	<b>Last Date</b>	<b>Degrad Rate</b>	<b>Show LrdrBrd?</b>	<b>Tot Cows</b>	<b>Cap / User</b>	<b>Carry Cap</b>	<b>Eff Cap</b>	<b>Edit</b>	<b>Delete</b>	<b>Leaderbo</b>
14	11	100	1	10000	2024-03-12	2024-04-12	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo

< 1 2 >

<b>id</b>	<b>Name</b>	<b>Cow Price</b>	<b>Milk Price</b>	<b>Start Bal</b>	<b>Starting Date</b>	<b>Last Date</b>	<b>Degrad Rate</b>	<b>Show LrdrBrd?</b>	<b>Tot Cows</b>	<b>Cap / User</b>	<b>Carry Cap</b>	<b>Eff Cap</b>	<b>Edit</b>	<b>Delete</b>	<b>Leaderbo</b>
28	1	100	1	10000	2024-03-12	2024-04-12	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo
29	2	100	1	10000	2024-03-12	2024-04-12	0.001	false	0	50	100	100	<button>Edit</button>	<button>Delete</button>	Leaderbo

< 1 2 >

8. Background images now load up to 3 times faster!
9. The leaderboard page now has a back button above the table to easily navigate back to the previous page

## Developer Notes

- Announcement API Endpoints
  - ◆ The announcements entity, repository, and controller (along with tests) are added respectively to the src/main folder. All endpoints can be accessed using the Swagger-ui console.
  - ◆ The frontend components (and tests) for the AnnouncementForm and Table are fully functional and can be seen in the Storybook.
    - Suggested change: The announcementText column of the table is being shown as one long line instead of a multi-line paragraph. This should be changed to be more readable.
  - ◆ This feature still needs to be implemented into the game and be shown to the users within a commons.
- Announcement UI Changes
  - ◆ Data tables now use pagination such that there are a maximum of 10 row entries per page of the table.
- The file LeaderboardPage.css has been created and contains the code that centers the leaderboard
- Functionality to check the starting date of a commons has been added to CommonsCard.js
- If showChat is false in a commons, regular users will receive 403 http responses if they try to interact with that commons' chat