

happycows-f24-10 release notes:

Users:

User Facing Improvements:

1. Make the explanation for buying and selling cows easier to read for users by separating text in bullet points

Manage Cows

 Market Cow Price: \$100

 Number of Cows: 15

 Current Milk Price: \$1

Buy cows

Sell cows

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!

Original

Manage Cows

 Market Cow Price: \$100

 Number of Cows: 0

 Current Milk Price: \$1

Buy cows

Sell cows

Note:

- Buying cows buys at the current cow price.
- Selling cows sells at the current cow price multiplied by the average cow health (as a percentage.)

Adjusted

2. Removed the empty white space on the right of the Profits Table in commons.

Profits

You will earn profits from milking your cows everyday at 4am.

Page: 1

PreviousNext

| Profit | Date ▼ | Health | Cows |
|--------|------------|---------|------|
| \$0.00 | 2024-11-23 | 100.00% | 0 |
| \$0.00 | 2024-11-22 | 100.00% | 0 |
| \$0.00 | 2024-11-21 | 100.00% | 0 |
| \$0.00 | 2024-11-20 | 100.00% | 0 |
| \$0.00 | 2024-11-19 | 100.00% | 0 |

Original

Profits

You will earn profits from milking your cows everyday at 4am.

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| Profit | Date ▼ | Health | Cows |
|--------|------------|---------|------|
| \$0.00 | 2024-12-05 | 100.00% | 0 |
| \$0.00 | 2024-12-04 | 100.00% | 0 |
| \$0.00 | 2024-12-04 | 100.00% | 0 |

Adjusted

User Facing Bugs:

1. Properly capitalize Buy/Sell button when buying/selling cows

Original:

×

Please specify the number of cows you'd like to buy below.

Cancelbuy

Fixed:

×

Please specify the number of cows you'd like to buy below.

CancelBuy

2. Fix bug with leaderboard sorting

Fixed an issue with the sorting of the leaderboard - previously it would rank wealths of less than \$1,000 as being greater than wealths of more than \$1,000 and would produce an incorrect sorted order. The image below features the fixed ascending order sort - previously, Farmer "justin" would be at the bottom despite having the least wealth.

Leaderboard

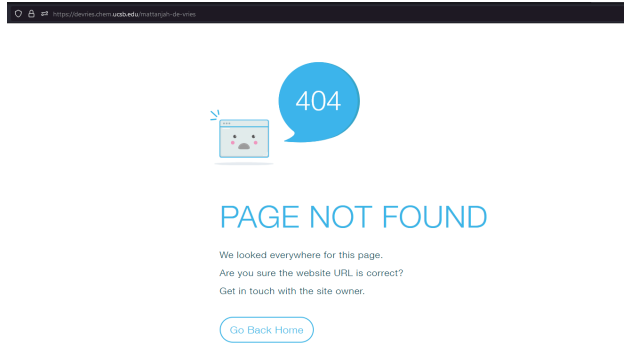
[Back](#)

| Farmer | Total Wealth ▲ | Cows Owned | Cow Health | Cows Bought | Cows Sold | Cow |
|---------------------------|----------------|------------|-------------------|-------------|-----------|-----|
| justin | \$198.73 | 99 | 99.17200000000001 | 99 | 0 | |
| Justin Wu | \$1,101.10 | 327 | 99.17200000000001 | 328 | 1 | |
| Justin Wu | \$10,000.00 | 0 | 99.17200000000001 | 0 | 0 | |

3. Corrected Professor Mattanjah de Vries' link

The Mattanjah de Vries link in the footer of the site has been updated to correctly link to Professor de Vries' bio page on his research group's website

Original Linked Page:



Correct Page:



Developers:

Table Improvements:

1. Added a test to PagedProfitsTable that ensures correct table CSS properties
Ensures table is correct width and has flex property
2. Significantly improved performance of tests for OurTable.js
Performance gains were up to 40x faster on local machine testing; mutation testing via Github Actions was ~4x faster. Logic was also made more self-explanatory.
3. Make ourtable pagesize a parameter
The OurTable component can take a pageSize parameter to limit the number of rows per page. See below a table with pageSize=5. The misalignment of the nav bar is not a problem in practice.

| Number | Next | Prev | Double | Square |
|--------|------|------|--------|--------|
| 65 | 66 | 64 | 130 | 4225 |
| 66 | 67 | 65 | 132 | 4356 |
| 67 | 68 | 66 | 134 | 4489 |
| 68 | 69 | 67 | 136 | 4624 |
| 69 | 70 | 68 | 138 | 4761 |

| | | | | | | | | | | |
|---|---|-----|----|----|----|----|----|-----|----|---|
| < | 1 | ... | 12 | 13 | 14 | 15 | 16 | ... | 20 | > |
|---|---|-----|----|----|----|----|----|-----|----|---|

Testing Improvements:

1. Expand the Create Commons end-to-end test to test all fillable fields of the form.
2. Added a new end-to-end test to test that admin users can edit and delete commons as expected.
3. Add web integration testing for buying and selling cows, ensuring that the buy and sell buttons correctly update Total Wealth, Total Cows Bought, and Total Cows Sold

Students and Courses:

1. Course entity, repository, controller and migration with get all endpoint
[Added a new table to store courses for the purpose of making course-based whitelists.](#)
[Currently courses store a course code, name and quarter. They will in the future also be linked to the students table.](#)

| Course | | ^ |
|--------|-----------------|------------------|
| GET | /api/course/all | List all courses |

2. Student entity, repository, migration
NOTE: Was unable to complete the Controller, hence you won't see it in Swagger.
[Student Entity file:](#)

```

15 public class Student {
16
17     // Unique Student Id
18     @Id
19     @GeneratedValue(strategy = GenerationType.IDENTITY)
20     private long id;
21
22     private String lastName;
23     private String firstMiddleName;
24     private String email;
25     private String perm;
26
27     private Long courseId;
28 }

```

CourseID is a foreign key to the Course table. Note that every Student object can only be enrolled in one Course; hence, if a student is enrolled in 2 classes, they would need to have 2 Student objects, each referring to a different Course.

Student Repository File:

Has built in find capabilities by Email, CourseID, Perm, as well as by CourseID AND Perm. This was modeled off of the StudentRepository file in Organic.

Student Migration File:

Follows the structure of Student Entity File.

3. Placeholder pages for student and courses

Placeholder Pages for Students:

Index:



Index page not yet implemented

[Create](#)

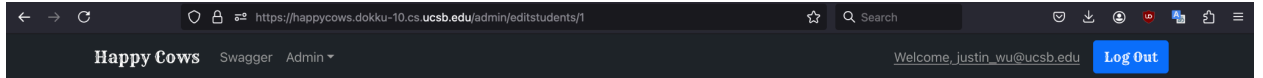
[Edit](#)

Create:



Create page not yet implemented

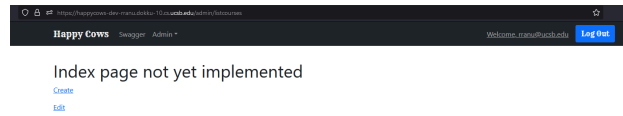
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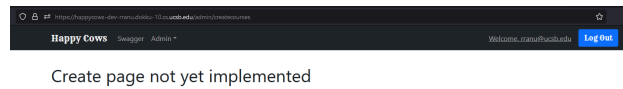
Edit page not yet implemented

Placeholder Pages for Courses:

Index:



Create:



Edit:

