

Cover Page

COMPSCI 345 Human-Computer Interaction

Assignment Three: Realizing a Design

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Note: To ensure a fair playing field for all students in the class the University of Auckland will not tolerate cheating or assisting others to cheat, and views cheating in coursework as a serious academic offence.

Student Declaration:

- I declare that this work is my own work and reflects my own learning.
- I declare that where work from other sources (including sources on the world-wide web) has been used, it has been properly acknowledged and referenced.
- I understand that my assessed work may be reviewed against electronic source material using computerised detection mechanisms.

Place this page in the front as the first page of your document that you are submitting to Canvas

Context

- Domain/Subdomain

- The users of Educatium – Learning Portal are a group of Auckland, New Zealand high school students all attending the same school together, in an Art History class of same year level students studying Dutch Renaissance Art.

- Users

- The Viewpoint user of this system is Jeff. Jeff has written the beginnings of a solution to the presented question.
- The other users of the group are:
 - Sophia
 - Julia
 - Attila
- The moment represented is one at some time after the question has been posted. Group members have all submitted some sort of solution and there is some feedback beginning to be posted. About 5 seconds in Attila will post a comment on Sophia's solution.

Walkthrough

1. Viewing the question

The screenshot shows the Educatium - Learning Portal interface. At the top, there's a navigation bar with 'Jeff | Log out', 'Chat', and 'Notifications'. The main content area is divided into two columns. The left column, titled 'Question for March 20th', contains a question about 'The Milkmaid' by Johannes Vermeer. The right column, titled 'Peer Feedback', shows a comment by Jeff and two replies from Sophia and Julia. Below the question, there's a section for 'Your solution' with a text input field and a 'Post' button.

Educatium Jeff | Log out Chat Notifications

Question for March 20th

Analyse The Milkmaid by Vermeer

A maidservant pours milk, entirely absorbed in her work. Except for the stream of milk, everything else is still. Vermeer took this simple everyday activity and made it the subject of an impressive painting – the woman stands like a statue in the brightly lit room. Vermeer also had an eye for how light by means of hundreds of colourful dots plays over the surface of objects.

— From the Rijksmuseum's Website

What do you think of the painting
What is your subjective experience with it?

What does it smell like?
Does anything even matter anymore?

I probably shouldn't leave this stuff in?
But why not? No one is gonna read it anyway.

The Milkmaid

Artist Johannes Vermeer

Year c. 1657–1658 (though estimates differ)

Dimensions H 45.5 cm x W 41 cm

Location Rijksmuseum, Amsterdam, the Netherlands

Peer Feedback

Stickied by Jeff
I really need help expanding on my answer but I don't know where to go from here.

Sophia Posted 20 March 2018 14:15:22
Nice solution, have you noticed the strange shape of the table?
[Reply](#)

Julia Posted 23 March 2018 14:12:22
Is the shape of the table really that important?
[Reply](#)

Your solution [Post](#)

This screen shows what a user may open the site up to. The main toolbar at the top of the screen allows users to open chats from a dropdown and the notifications. Below this the interface is divided into two columns. On the left we have the Question Panel with the question up top and any relevant information, and the currently selected user's solution below mostly out of view. On the right is the feedback panel with the stickied comment with a small blurb by the user to whom the solution belongs, with any details about any feedback that they're after.

2. Viewing the solution

Educatorium - Learning Portal

Jeff | Log out Chat Notifications

Question for March 20th

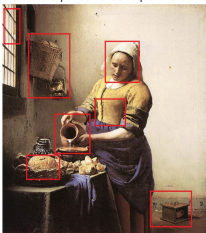
show

Peer Feedback

Julia's solution

Julia

Nullam malesuada dolor vitae purus fermentum, ac malesuada mauris euismod. Mauris pretium efficitur lacus. Ut fringilla turpis ut ipsum interdum, vitae condimentum nunc efficitur. Etiam vehicula, lorem vestibulum ultrices eleifend, nisi lacus dictum erat, at sollicitudin quam lorem vel sem. Maecenas ac iaculis est.



Duis scelerisque pulvinar turpis ut bibendum, Donec in est quam. Fusce finibus nisi vitae enim pulvinar, eu mollis erat egestas. Pellentesque iaculis nibh lacus, quis varius nunc malesuada at. Donec pellentesque eros sed iaculis congue. Curabitur aliquet egestas eros vel elementum.

Last modified: 22 April 2018 12:03:15

Stickied by Julia

I really don't know if using filler text is a good way to get high marks in this paper.

Attila Posted 21 March 2018 12:11:12

What does it all mean?

Reply

Post

Here we are viewing Julia's solution. The question has been collapsed to allow a better view of the solution. Her solution contains an image and has the date at which it was last modified.

3. Editing the user's solution

Educatorium - Learning Portal

Jeff | Log out Chat Notifications

Question for March 20th

show

Peer Feedback

Your solution

Jeff

cancel

My thoughts are that this is the best thing that is ever so far as to have gone as to look more as to do more things

```
<ul>
<li>This is an unordered list</li>
</ul>
```

Save Cancel

Stickied by Jeff

I really need help expanding on my answer but I don't know where to go from here.

Sophia Posted 20 March 2018 14:15:22

Nice solution, have you noticed the strange shape of the table?

Reply

Julia Posted 23 March 2018 14:12:22

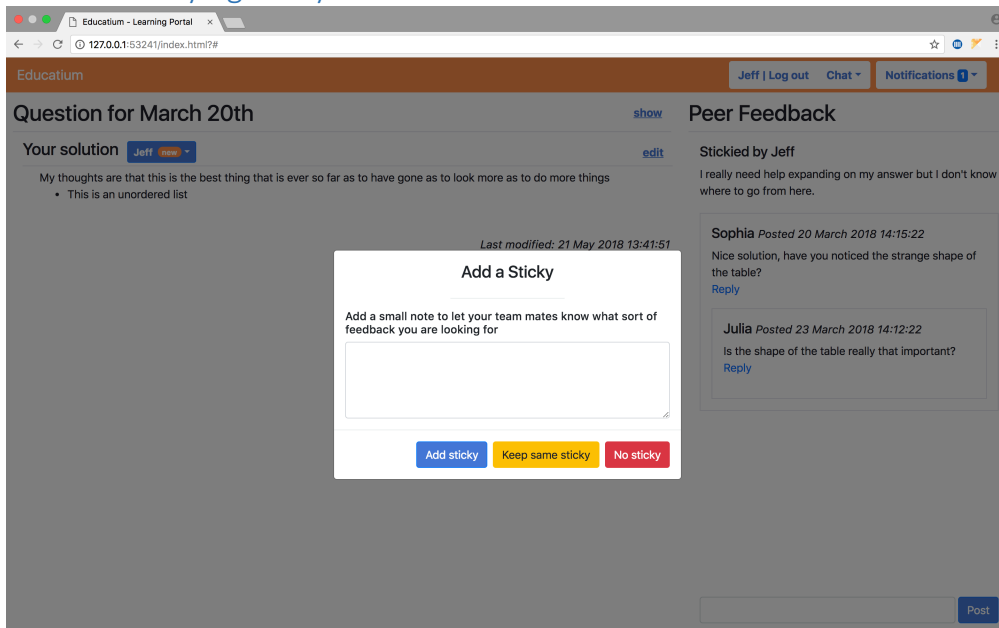
Is the shape of the table really that important?

Reply

Post

Here we are seeing the solution editor. This takes raw HTML though a real implementation would have a fully featured text editor with some form of markup language.

4. Modifying sticky



Once a user has saved their modification, they are asked if they would like to modify the sticky at the top of the peer feedback panel.

5. Selecting a solution



The dropdown used to select the solution to view has badges informing the user that the solution has been modified since last time the user saw it.



Out of Bounds

- Chat boxes. The menu to open them is there but they themselves are not implemented. There would not be much that is novel in the implementation of them.
 - o One novel thing that would be added would be the ability to call the teacher into the group chat for clarification of any conversation.
- Text editor for solutions. This would be implemented in a full solution very much in line with a standard text editor. Currently raw HTML is accepted but this is a huge security risk for any real implementation. Scripts can currently be written in and executed for example.

- Ability to report inappropriate content. This is crucial for any web service, and especially for one designed for high school aged children.

Design Decisions

Colour Scheme

- This site was designed with a complementary colour scheme. The primary colour is the orange:
 -  RGB 152, 147, 77
- Secondary colour is the blue:
 -  RGB 70, 120, 214
- Other colours used are Bootstrap defaults.

Borders and Layout Scheme

- This interface is low on borders. They are used to underline headings, surround text input fields, and surround comments to clearly show comment nesting. This is to maintain flow across the interface, without putting things into blocks excessively, when really everything on the page is related.
- Backgrounds are almost entirely white except for the heading toolbar.
- The interface is split into three main sections.
 - The first two are grouped into the Question and Solution panel with the solution following the question. This is to clearly group the two together vertically. This also helps with answering the question when the user is constructing their solution.
 - The feedback panel stands on its own to the right of the interface. This keeps the feedback always viewable and as it is separated from the other two sections, serves to link them together as the feedback relates to both the question and the solution.
 - The right alignment of the information panel on the artwork as well as most of the buttons and menus serves to balance the left alignment of most of the text and the left panel being larger than the right.

Fonts

- The fonts used are entirely sans-serif for the more modern and less serious than traditional, serified fonts.
 - Boldface is used for buttons.
 - Italics is used for minor details, mainly just to show the date of the publishing of a comment or solution.

Animations:

- A slide animation is used to hide the question, tucking it away up top and allowing the solution to use the full height of the left panel.
- Buttons slightly change when the user hovers over them with a mouse.

- Modals such as the larger image overlay and the sticky edit modal slide in from above.

External Resources

Resource	Source	Role
Buttons	Bootstrap	Bootstrap buttons are used for all the buttons on the interface
Button groups	Bootstrap	Used to group some buttons together
Dropdowns	Bootstrap	Used to group similar content into a list e.g. notifications
Card	Bootstrap	Used for the painting info panel on the right hand side of the question
Badges	Bootstrap	Used for the notification number and “new” badge on the solution selector
Media object	Bootstrap	Used for the solution feedback
Blockquote	Bootstrap	Used for the Rijksmuseum quote in the question
Flex boxes	Bootstrap	Used for much of the interface both horizontal and vertical
Navbar	Bootstrap	Used for main heading bar
Form control	Bootstrap	Used for all input fields
Modal	Bootstrap	Used for the sticky edit pop-up and the image expander
Popper	Popper.js	Used by Bootstrap for many pop-ups etc

- Tutorials from W3C provided information on all Bootstrap components
 - o <https://www.w3schools.com/bootstrap4/default.asp>
- Wikipedia provided inspiration for the painting information panel
 - o [https://en.wikipedia.org/wiki/The_Milkmaid_\(Vermeer\)](https://en.wikipedia.org/wiki/The_Milkmaid_(Vermeer))
- The Rijksmuseum Website provided the quote used
 - o <https://www.rijksmuseum.nl/en/collection/SK-A-2344>
- The Milkmaid image sourced from
 - o http://2.bp.blogspot.com/-1Ps5YIu4mGE/TqKpf3uw_qI/AAAAAAAAACRg/X_8XINiET4Y/s1600/Johannes_Vermeer_van_Delft_milkmaid.jpg
- The Milkmaid image with features highlighted sourced from
 - o <https://daniverg.files.wordpress.com/2010/05/the-milkmaid.jpg>