Unit 5 Reflective Journal - Javascript Proposal

Based on your personas and scenarios developed for Unit 1, in your learning diary identify ways that JavaScript elements might improve your site. It is important that the code you develop meets the learning outcomes for this unit as well as being justified and useful in the context of the site.

Idea #1

Gladiator Defence

The concept is that a gladiator is attacking you, and you have to defend yourself. You're shown an image of a gladiator attacking you for 2000ms, and you have to click on the appropriate defence or counter move before the time runs out. You have to defeat your enemy or you lose. This is meant to excite Horatio the Hobbyist in Scenario #6 to get him more engaged in Roman culture.

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Variables
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```
var attackType
var defenceType
var battlePairs =
{"stab":
       {"block": "shield",
       "counter": "sweeplegs",
       "image": "images/stab.png"},
"highswing":
       {"block": "sidestep",
       "counter": null.
       "image": "images/highswing.png"}
} etc.
var enemyHealth
var playerHealth
var reactionTimer
var battleOver
Add #gladiator-img id for the image of the gladiator
Add action class to buttons
```

Battle Function

Every second until battleOver is true

Pick a random key from battlePairs, set to attackType

width .health-1 with background green represents 1 health of max 3.

Render the image to the id #gladiator-img

Render 3 defenceType buttons, the block and counter, and another random option. switch

Gladiator health bars done with CSS classes. A div inside another div. A health bar having 33%

case: the defenceType is the value of the block inside the attackType object, no-one loses health

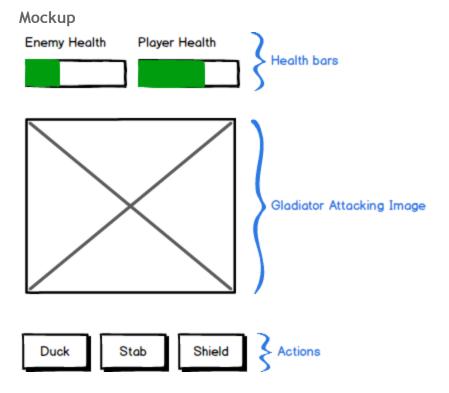
case: the defenceType is the value of the counter inside the attackType object, enemy loses -1 health

case: if the defenceType is neither value of the block or the counter of the attackType object, player loses -1 health

default: (the timer runs out before a defence is clicked), then player loses -1 health

render health classes for gladiator and player

1 health = .health-1 = healthbar width: 33%



Idea #2

Currency converter

The high-level idea is that you are exchanging your money (in CAD) to the Roman currency at the time, Denarii. The converted uses an exchange rate to determine how much you'll have to spend. This provides some classroom content for Prem the Professor in Scenario #5 and engages Horatio the Hobbyist in Scenario #6 by making Roman history relevant to his life. The tool will be on the tools page.

http://student.athabascau.ca/~zacharyle/unit4/tools.html

Variables

var exchangeRate var startAmount var startCurrency var endCurrency var endAmount var errors = []

On #convert-button click

if validation function returns true, run convert currency function else loop through errors array and insert errors array strings into an unordered list #currency-errors

Check Validation Function validation(startAmount)

switch

case: amount is not a number, return false and add "Please input a number" to errors array case: amount is < 0, return false and add "Please input a number > 0" to errors array case: amount has > 2 decimal places, return false and add "Max 2 decimal places" to error array default: return true

Convert Currency Function

if startCurrency is CAD

endAmount = startAmount / exchangeRate
endCurrency = denarii

else

endAmount = amount * exchangeRate
endCurrency = CAD

Insert into id #end-amount the endAmount Insert into id #end-currency the endCurrency

Idea #3

Tabs for Categories Page

The tabs are for presenting the content in a neater way. This is useful for consuming large amounts of content as you are more focused on the content that is revealed. The user can thus learn more. It would help the persona #2 Silvia the Student in Scenario #4 be able to get a better general grasp of the information because she'd be more likely to read it that if the page were really long.

http://student.athabascau.ca/~zacharyle/unit4/categories.html

Flow

Give tab buttons a class of .tab-button
Give tab buttons ids relating to their names #tab-history

Give tab contents a class of .tab-content

Give tab contents ids relating to their names #content-history

On .tab-button click, run an anonymous function:

get id of element var tabName = #tab-history

split strings tab-history by - into an array var tabNameSplit = ["tab", "history"]

concatenate string "#content-" + tabNameSpit[1]

display:none all .tab-content by adding class .hidden (CSS .hidden {display:none})

display:block specific tab-content with id #content-history by adding class .visible (CSS .visible {display:block})

add class .active to #tab-history for aesthetics