Change request #2 log

1. Concept Location

Step #	Description	Rationale
1	We loaded the program using the steps provided	
2	We navigated to location of the issue which was in the top right of the page with the user controls.	
3	Using the inspect element tool, we learned the mute feature was set to false by default.	This was determined by the image source having a file for sound_none.png when the page initially loads
4	Following the requirements, we needed to set the value to true by default.	We saw that a function MiscDwr.toggleUserMuted(setUserMuted) was being called so we had to locate that in the repo.
5	After finding this function in the MiscDwr.java class, we saw that it was using a User object to call a setMuted function.	

Time spent (in minutes): 45

- MiscDwr.java (src/com/serotonin/mango/web/dwr)
  - Function was "public Boolean toggleUserMuted()"
- User.java (src/com/serotonin/mango/vo)
  - Variable was "private transient Boolean muted = false;"
  - Function setMuted and isMuted

2. Impact Analysis

Step #	Description	Rationale
1	From the information given while using the inspect element tool, we knew the MiscDwr.java file might be a file we would have to modify	This was the class that had a function directly being called to set the mute option, but we noticed there was a User object being declared and used.
2	User.java had the direct declaration for the Boolean "muted" variable, so this was the location we were very confident in changing compared to MiscDwr.java	Since the muted variable was being declared here, it made sense to modify it directly so we would not have to worry about modifying the location everywhere else.
3	The next location would have to be wherever the image declaration is done. We found this in common.js	There were a couple of functions (setUserMuted and setSilenced) that included the usage of the sound images.

Time spent (in minutes): 25

- MiscDwr.java (src/com/serotonin/mango/web/dwr)
  - Function was "public Boolean toggleUserMuted()"
- User.java (src/com/serotonin/mango/vo)
  - Variable was "private transient Boolean muted = false;"
- Common.js (war/resources)
  - Functions were setUserMuted(muted) and setSilenced(eventId, silenced)

3. Actualization

Step #	Description	Rationale
1	We saw that a function MiscDwr.toggleUserMuted(setUserMuted) was being called so we had to locate that in the repo.	After finding this function in the MiscDwr.java class, we saw that it was using a User object to call a setMuted function.
2	In the User.java class, we found the Boolean value for muted which was set to false.	
3	We changed the Boolean value to be set to true by default.	By having this value as true by default, we would be following the requirements and this was the source of the mute functionality so it would be translated everywhere else.
4	Next, we changed the image to be sound_mute.png to match the feature.	This would be done in the common.js file.

Time spent (in minutes): 10

- MiscDwr.java (src/com/serotonin/mango/web/dwr)
    - Function was "public Boolean toggleUserMuted()"
- User.java (src/com/serotonin/mango/vo)
    - Variable was "private transient Boolean muted = false;"
- Common.js (war/resources)
    - Functions were setUserMuted(muted) and setSilenced(eventId, silenced)

4. Validation

Step #	Description	Rationale
1	On page load, the sound icon was set to mute by default which was correct and the Boolean value was also set to muted. We also used a FileWriter to log the output in a text file.	This is the regular expected behavior. The test passed.

Time spent (in minutes): 15

5. Summary of the change request

Phase	Time (minutes)	No. of classes inspected	No. of classes changed	No. of methods inspected	No. of methods changes
Concept location	45	2	0	3	0
Impact Analysis	25	2	0	3	0
Actualization	10	2	1	3	2
Verification	15	2	0	2	0
Total	95	8	1	11	2

6. Conclusions

This change had a relatively easy concept location since we were able to find the onclick function via the inspect element and then go into the file it was in quickly. Next, we found the origin through the User.java class since the muted variable was a Boolean that was declared early on. Lastly, we found the location of the images by using control+shift+F to search the entire repo for any occurrences of the images. They were only used in the common.js which made it straightforward. Testing and validation was minimal since the changes did not require extensive testing.