## Questions, Options, Criteria

## Voice Geometry Painter

1. How do I login as a professor?
   1. I use my school account, username and password.
      1. I look for the login dialog and submit button
      2. I can either say or type the credentials
      3. I can use the “remember me” checkbox, which offers means of recovery and retention.
   2. **I use the voice recognition service**
      1. I pronounce the keyword
      2. The application understands it and verifies it is my voice
      3. Others may hear it.
2. How do I teach a lesson using the app?
   1. **I say “new lesson” command**
      1. I have to add a title and a subtitle
      2. I must select what toolboxes (instruments) I will use
      3. I continue by adding figures with voice commands
3. How do I draw?
   1. **I use voice commands**
      1. I have to learn the default ones by clicking them in the toolbox area.
      2. I can customize them inside the settings menu.
      3. I must remember them
   2. I use the UI and the mouse or the Interactive whiteboard
      1. I draw using the mouse
      2. The application will correct wrongly figures I had drawn
4. Why should I use this software instead of a basic paint app?
   1. **I can use voice commands**
      1. This means I can be away from the whiteboard/device.
      2. I can use my hands to point on the table instead of sitting down and drawing.
      3. I attract much more attention from the students
5. How do I correct a wrongly drawn figure?
   1. I delete and re-draw
      1. I select it (e.g. Triangle ABC) and the delete it
      2. I draw it again
      3. This is time consuming
      4. There may be situations where I might delete more than I want to edit
      5. I can use this for complex drawings
   2. **I adjust it**
      1. I select (e.g. angle A)
      2. I say the adjust command: adjust new measure 90 degrees
      3. I confirm
      4. I can use this for more simple figures
6. How do I select a figure?
   1. **I refer it by voice**
      1. I might not be able to select a very complex drawing
   2. I click on it
      1. This can be faster
      2. I will use this for simple figures
   3. I click on all figure’s parts
      1. I have to be precise when I click on all the edges.
      2. I will use this for more complex drawings
7. What do I do if I need more space for drawing?
   1. I can save the current whiteboard
      1. I must go through all the export steps which is time consuming
      2. I must open another whiteboard which is again time consuming
   2. I can use the pagination feature
      1. This can help me better organize the lesson
      2. Depending on the size of the figures I may not be able to store everything inside a single page
   3. **I can vertically extend it**
      1. This can result in a very long document
      2. This kind of documents can get the students bored.
8. How do I save/export/print/share a drawing?
   1. **I use the voice commands**
      1. I say the desired command
      2. I add the wanted parameters (path for saving, persons to share with)
      3. I am prompted to confirm the command
   2. I use the UI
      1. I select the share icon
      2. I add the wanted parameters (path for saving, persons to share with)
      3. I am prompted to confirm the command
9. How do I evaluate a student using the app?
   1. **Using voice**
      1. I disable the advanced toolboxes
      2. I provide him access to the microphone and whiteboard
      3. I let him login
      4. I record his performance
   2. Using UI
      1. I disable the advanced toolboxes
      2. I provide him access to the UI and keyboard & mouse
      3. I let him login
      4. I record his performance
10. What do I do after I evaluated him?
    1. I can keep his drawing
       1. I can investigate later
       2. I can keep a history
    2. **I can note him on sight**
       1. I add the grade
       2. The app automatically saves the grade for the lesson and date
11. How do I block the app to only recognize my voice?
    1. **I go to the settings menu and select the “Listen only to …” option:**
       1. I say the words that the app asks me to
       2. The app calibrates and notifies me
       3. This is very useful for noise or for students that may try pranks
12. How do I add a custom command?
    1. **I go to the settings menu and select “Custom commands”**
       1. I add a new one
       2. I draw using the mouse the desired figure using the available toolboxes
       3. I set the voice command I want for it.
13. How do I represent the drawing instruments set?
    1. **Using a panel containing icons (and labels)**
       1. This is the most intuitive as all major designing software come this way by default.
    2. Using a dropdown list
       1. Could be useful for a minimalist design but hard to see all what a user could draw.
    3. Using a menu
       1. Very hard and not intuitive
14. Where do I position the drawing instruments?
    1. Top left
       1. **Being the most important interacted features they will be placed in this side as the user eye tends to focus here.**
    2. Top Right
    3. Up
    4. Bottom
15. Where do I position the info about the geometrical figures?
    1. Bottom
       1. **As this might contain very much information the size occupied can be very large. Adding it at the bottom allows us to add scroll.**
    2. Right
       1. The eye doesn’t focus too much on that zone so the user doesn’t see all he can draw.
16. How do I represent the miscellaneous controls?
    1. **Big Icons**
       1. Intuitive for all devices
    2. Menu
       1. It takes longer for the user to reach the desired action
17. Where do I position the miscellaneous controls?
    1. **A top bar above the whiteboard**
       1. Always visible. This gives the user control and he feels free to use them at any moment
    2. Right
       1. The location is not very suggestive for the human eye and some actions might not be noticed by the user.