Requirement Activity

Develop a set of prioritized requirements (user stories with acceptance criteria)for a potential product backlog for the following:

*As a client, I would like a (scenario/case) -based decision tree to evaluate the performance of (students/employees/trainees) responses and actions given an engaging (real world/authentic) (situation/problem) to solve.  This product should be highly visual and incorporate many forms of media. Moreover, it should be (accessible/available) to others who wish to build their own case-based scenarios.*

FIRST ITERATION

PRODUCT FLOW

(What is the simplest, straightforward path)

Scenario

Node (IG)

End

Node (DM)

COMMON LANGUAGE

1. CLIENT: The owner of the product.
2. DEVELOPER: A person that creates/builds a simulation using the product.
3. USER: A person (a student/trainee) that uses the simulation to be evaluated on their performance of responses and actions within the simulation environment.
4. NODE: Each step in the simulation path. There are 4 types of nodes: 1) Scenario (the start of the simulation), 2) End (the end of the simulation), 3) IG (information gathering), and 4) DM (decision making).
5. SCENARIO STORY: The problem set. What introduces the USER to the environmental situation/case/problem they need to solve.
6. NODE LINK: The directional connection between 2 nodes.

SMART REQUIREMENTS

SPECIFIC MEASURABLE ATOMIC REALISTIC TRACEABLE

USER STORIES

As a <type of user>, I want <some goal> so that <some reason>

<type of user> As a CLIENT

1. *The Product Should be Easily Accessible*
   1. <some goal> I want the product available anywhere, anytime, and on any device <for some reason> so that DEVELOPERS and USERS can easily access and use this product with any Internet or cellular connection.

ACCEPTANCE CRITERIA

* + 1. The application will reside on a secure Web Server
    2. Developers can subscribe/register to use the application
    3. Access to the application requires a password and username
    4. The application must be WCAG compliant

1. SaaS subscription
2. Where/how are the simulations stored? Who has permissions?
3. Where/how are the simulation results from the USER stored? Who has permissions?
   1. Do I as the owner of the project, if someone abuses this product, have the ability to stop them?

<type of user> As a DEVELOPER

1. *Developers can create a Scenario Node (instance)*
   1. <some goal> I want to create a Scenario Node <for some reason> so that USERS have a starting point the simulation.

ACCEPTANCE CRITERIA

* + 1. A Scenario Node is automatically created when creating a new simulation

1. *Developers can create a Scenario Story*
   1. <some goal> I want to be able to add text (media) into the Scenario <for some reason> so that USERS can view the Scenario Story.

ACCEPTANCE CRITERIA

* + 1. Text can be entered/edited/deleted in a text field
    2. Text size, text font preferences are “pre-set” and cannot be altered
       1. Text must use 12-point Roboto Google font 🡪 nonfunctional requirement
    3. Media can be added to the Scenario Node by uploading a file (image, video, audio) into the system
    4. More than one type of media can be uploaded and viewed in the Scenario Node
    5. Video and images are automatically “resized” to fit and scale to a “pre-set” image viewer aspect ratio and size
    6. The image viewer is displayed in a pop-up window or iframe
       1. The image viewer automatically “pops-up” when an image is uploaded
       2. The image viewer can be closed by clicking an “X” at the top right-hand corner of the viewer
    7. Audio files are played through an audio player with Start, Pause, Rewind functions
    8. All data/information/media entered into the Scenario Node can be Saved

1. *Developers can create a Node Link from the Scenario to another Node (IG, DM) except the End Node*
   1. <some goal> I want to be able to add a link at the Scenario <for some reason> to connect to the next node (either IG, DM) in the simulation.
2. *Developers can create an Information Gathering (IG) Node.*
   1. <some goal> I want to create an IG Node <for some reason> as a potential step in the simulation pathway.
3. *Developers can create an IG Story*
   1. <some goal> I want to be able to add text (media) into the IG Node <for some reason> so that USERS can view directions/information for Information Gathering.
   2. How do enter “media” into the IG node?
4. *Developers can create multiple choice items in an IG Node*
   1. <some goal> I want to be able to add multiple choice items (such as check buttons) into the Scenario <for some reason> so that USERS have (several) possible data items to choose.
5. *Developers can assign “points” (either + or -) to “selected” multiple choice items in an IG Node*
   1. <some goal> I want to be able to assign points, either + or -, to each IG multiple choice option <for some reason> to grade USERS on their selection decisions.
6. *Developers can assign data or information as text (media) to multiple choice items in an IG Node*
   1. <some goal> I want to be able to assign data or information as text (media) to each IG multiple choice option <for some reason> to display any information associated with that multiple choice item when “selected” by the USER.
7. *Developers can create a Node Link from the IG Node to another Node (IG, DM, End)*
   1. <some goal> I want to be able to add a link from the IG Node <for some reason> to connect to the next node (IG, DM, End) in the simulation.
8. ? USER input to traverse from the IG node
9. *Developers can create a Decision Making (DM) Node.*
   1. <some goal> I want to create a DM Node <for some reason> as a potential step in the simulation pathway.
10. *Developers can create an DM Story*
    1. <some goal> I want to be able to add text (media) into the DM Node <for some reason> so that USERS can view directions/information for their Decision Making.
    2. How do enter “media” into the Scenario node?
11. *Developers can create possible choice items in a DM Node*
    1. <some goal> I want to be able to add possible choice items (such as radio buttons) into the Scenario <for some reason> so that USERS have (several) possible paths to choose.
12. *Developers can assign “points” (either + or -) to the possible path choices in a DM Node*
    1. <some goal> I want to be able to assign points, either + or -, to each DM possible choice option <for some reason> to grade USERS on their selection decisions.
13. *Developers can create a Node Link from a DM Node possible choice to another Node (IG, DM, End)*
    1. <some goal> I want to be able to add a link from a DM Node possible choice item <for some reason> to connect to the next node (IG, DM, End) in the simulation when the USER “selects” that option.
14. *Developers can create an End Node.*
    1. <some goal> I want to create an End Node <for some reason> as a final step in the simulation pathway.
15. Different types of End Nodes?
16. Feedback after completion (at the End Node)?
17. Constraints? (Limit the number of Nodes, Paths)
18. Error checking (Are all nodes and paths accounted for? Is there an optimal path?)

<type of user> As a USER

1. Login
2. Interface
3. Inputs
4. How/where are results submitted?