Functional Test Design for Multi-user Infinite Canvas Thingy (MICT)

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Contents

1	Client	2
2	Server	3

1 Client

Use Case	Initial System	Input	Expected Output
	State		
Canvas.Connect	User starts off not con- nected to a server	User enters a server and lo- gin credentials, then clicks connect	User is connected to a server
Canvas.View	User does not see the can- vas	User requests a section of the canvas to view	The user sees that section of the canvas
Canvas.Pan	User sees one section of the canvas	User selects the Pan tool, clicks in the canvas, and moves the mouse	The canvs moves so that the section of the canvas under the mouse remains the same point
Canvas.Jump	User is at one location on the canvas	User enters a new location and clicks the "jump" but- ton	User is moved to the new location
${\bf Canvas. List Users}$	Initial State doesn't mat- ter	User requests a list of users logged into the server	User is presented with a list of users on the server
Canvas.JumpToUser	User is at a certain location in the canvas	User selects another user and clicks "jump to user"	User's location is set to the same location as the other user's location
Canvas.Mark	User is at a position in the canvas	User clicks the "Mark" button	The position is saved for the user. Clicking the "jump to mark" button will take them back to that position
Canvas.Select	Client is connected to a server	User clicks the "Select" button	The coordinates of the selected area of canvas is saved to memory
Canvas.Copy	Client is connected to a server and has selected an area of canvas	User clicks the "Copy" button	The selected area of canvas is saved to the clipboard
Canvas.Paste	Client is connected to a server and has selected an area of canvas and has an image saved to the clip- board	User clicks the "Paste" button	The selected area of canvas is filled with the image in the clipboard
Canvas.Rotate	Client is connected to a server and has selected an area of canvas	User clicks the "Rotate" button	The selected area of can- vas is rotated 90 degrees on the canvas
Canvas.Scale	Client is connected to a server and has selected an area of canvas	User clicks the "Scale" button, and fills in a field specifiying how much to scale by	The selected area of can- vas is scaled by the spec- ified amount
User.Permissions.Check	Client is running	User checks his or her cur- rent or last known permis- sion set on a server	The user's current permission set, with group mask permissions included (but not marked as such)

2 Server

Use Case	Initial System	Input	Expected Output
	State		
Server.Start	Server is not running	Admin starts the server with a configuration file as an optional parameter	Server starts with parameters identical to those in the configuration file
Server.Stop	Server is running	Admin stops the server, either from a superuser client or from the system console	The server stops
Server.MaxUsers.Set	(no initial conditions)	Admin either edits a con- figuration file or runs a command from a superuser client or the system con- sole	The maximum number of users changes, and excess users are kicked from the server
Server.MaxUsers.Check	Server is running	Admin checks the current maximum nubmer of users by running a command from a superuser client or the system console	The maximum number of users
User.Permissions.Set	(no initial conditions)	Admin either edits a configuration file or runs a command from a superuser client or the system console	The user's permissions change, old restrictions are lifted, and new restrictions are effected
User.Permissions.Check	Server is running or client is running	Admin checks the current permission set for a user by running a command from a superuser client or the sys- tem console	The user's current permission set, with group mask permissions included and marked as such
Group.Permissions.Set	(no initial conditions)	Admin either edits a configuration file or runs a command from a superuser client or the system console	The user's permissions change, old restrictions are lifted, and new restrictions are effected
Group.Permissions.Check	Server is running	Admin checks the current permission set for a group by running a command from a superuser client or the system console	The groups's current permission set mask