



Node-Express / Ajax Assignment

Assignment is to create a simple browser based Remote Keyboard application.

- There are two users (two different machines or browser) who share a Keyboard of grid 10 Keys.
- The Keyboard is a grid of 2 x 5 keys, each of 50px x 50x size.
- Initially all the Keys are turned off (white colour). When a user clicks on any key, it turns to a particular colour (red for user 1, yellow for user 2).
- Both the users can click and light the keys on the board at any position.
- If the user clicks on an already lit key, it turns off (white colour)
- There should be a button to acquire control of the keyboard.
- Only one user can lit the keys at a given time.
- A user is able to lit a key only after he has successfully acquired the control. The other user has to wait until the control is released before he can lit any key on the board.
- As soon as a user lit one key, the control is released and either of the user can again acquire the control to lit the keys.
- The control has the timeout of 120 seconds. If a user acquires a control and does no activity, the control gets auto released in 120 seconds.
- Soon after a user lits or unlit a key on the board, the changes are reflected on the other user's screen, without refreshing the page (*Hint: you can use Ajax polling for this*)

Note:

- You will require Apache, Node-Express, MySQL in your system.
- Code should work on IE, Chrome and Firefox.
- You can use any JavaScript library eg. jQuery etc.
- ClientServer communication is required. You can use localhost to test the system.
- You can identify different users by passing params in the query string ?user=1 and ?user=2 and skip user login / session etc

1	2	3	4	5
6	7	8	9	10

Take Control

Status: No user has control now