# Please note the following points concerning this prototype:

## Steps to Integrate the module into any webpage:

1. In order to integrate this into any website, we need to copy the "activity-map-final-v2" file to a folder named "js" in the same directory as the HTML file.
2. After copying the file, we need to add the following codes inside <head> tag of the HTML file:

* <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.4.2/jquery.min.js" type="text/javascript"></script>
* <script src="js/jquery.nivo.slider.js" type="text/javascript"></script>

## Important Points to note:

1. Since this is only a prototype, it does not actually store the number of clicks anywhere. In order to implement this functionality, we will need to link it to a database in the back-end.
2. I have added a function which can register the click on any link. Therefore, when the back-end functionality is added, it can easily send the information of click event to the database and retrieve it when the map needs to be created.
3. Since, number of clicks are not stored anywhere, therefore, as a workaround, this code randomly generated the number of clicks for each link. This number is between 0 to 1000.
4. After integrating it into any webpage, It will automatically add a “Show Map” button on top left corner of the page.
5. On clicking this button, colored boxes will appear. The color of the boxes will be based on the following criteria:
   1. No. of clicks > 500 : Red Box
   2. No. of clicks between 250 to 500 : Yellow Box
   3. No. of clicks > 250 :Blue Box
6. The size of the box will be proportional to the number of clicks.
7. A “Show Number of Clicks” button will also appear upon map creation. Clicking this button will show the number of clicks within each box.

On Fri, Jun 26, 2015 at 7:58 PM, Rahil Rangwala <[rahil@classverse.com](mailto:rahil@classverse.com)> wrote:

Hi Karan -

It was great speaking with you earlier. As a next step please see the following question below. Send us a written response on how you would address this problem and create a working prototype.   
  
**Problem Statement**: Design a system that can gather click data from a webpage and show it later in form of a Heatmap.  
  
**Details**: You need to develop a system that can be integrated into any website (as easily as possible) which records visitor clicks on the page. The goal of this system will be to track visitor's mouse clicks on various elements of the page and later show them accurately in the form of a Heatmap. The owner should be able to see aggregated click data, in the form of an overlay on top of his webpage. The areas in the heatmap that are red suggest more clicks compared to the areas that are yellow / white. We also need to show how many clicks were exactly made to the element on the page.  
  
You need to have a mode which can display the clicks in terms of number of clicks instead of heatmaps. The problem should be solved keeping in mind huge no. of clicks coming to high traffic pages wherein a single page can have more than 1 million clicks.

Thanks,

-R