## **Section 1:**

Q 3) Any other way to write this code to achieve more or the same functionalities. Write the code.

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## Section 2

1) Now when we open the file http://assets.yoursite.com/js/yourx.js we find the following code. (Looks ugly!, We know).

```
window.fancy = jQuery.noConflict(true);
function getfancyrWindow() {
 return document.getElementById("fancyr-window").contentWindow;
}
function getDomainHost(fullUrl) {
 return fullUrl.match("(https?:)?(\/\/.*?)/")[2];
}
function getDomain() {
 var scripts = document.body.getElementsByTagName('script');
 for (var i = scripts.length-1; i >= 0; i++) {
   var script = scripts[i];
    if (script.getAttribute('src').indexOf('yourx.js') != -1) {
      return getDomainHost(script.getAttribute('src'));
    }
 }
var domain = getDomain();
var url = window.location.href;
url = url.replace("#!/","");
if (typeof(fancyr init) == 'undefined') {
 var fancyr init = {iframe: false, iframeLoaded: false};
}
```

```
checkStatus();
function checkStatus() {
  if (!fancyr init.iframe) {
    fancy.pm.bind("close", function(data) {
      closeyourx();
    });
    openyourx();
 }
}
function openyourx() {
  fancyr init.iframe = true;
 if (fancy("body")[0].tagName === "BODY") {
     var yourxTarget = fancy("body");
     var yourxTarget = fancy("html"); // For websites with framesets
 yourxTarget.append("\
 <div id='fancyr frame'>\
    <style type='text/css'>\
      #fancyr frame iframe { background: transparent; border:0;
position: fixed; top: 0px; right: 20px; height: 600px; width:
230px; z-index: 2147483647; margin: 0px; display: block !important;
visibility: visible !important; }\
    </style>\
    <iframe id=\"fancyr-window\" ALLOWTRANSPARENCY=\"true\"</pre>
name=\"fancyr-window\" frameborder=\"0\" src=\""+domain+"/yourx?
url="+encodeURIComponent(url)+"\" scrolling=\"no\"
onload=\"iframeLoaded()\" onreadystatechange=\"iframeLoaded()\">Enable
iFrames.</iframe>\
  </div>");
 fancy.pm.bind("action", receiveAction);
 fancy.pm.bind("yourxSize", updateSize);
}
function tuneBrowserDetection() {
 var userAgent = navigator.userAgent.toLowerCase();
fancy.browser.chrome = /chrome/.test(navigator.userAgent.toLowerCase()
);
  // Is this a version of Chrome?
 if(fancy.browser.chrome) {
    userAgent = userAgent.substring(userAgent.indexOf('chrome/') +7);
    userAgent = userAgent.substring(0,userAgent.indexOf('.'));
```

```
fancy.browser.version = userAgent;
    // If it is chrome then jQuery thinks it's safari so we have to
tell it it isn't
    fancy.browser.safari = false;
 if(fancy.browser.safari){
    userAgent = userAgent.substring(userAgent.indexOf('safari/') +7);
    userAgent = userAgent.substring(0,userAgent.indexOf('.'));
    fancy.browser.version = userAgent;
}
function iframeLoaded() {
  if (!fancyr init.iframeLoaded) {
    fancyr init.iframeLoaded = true;
    // solve safari bug where youtube videos stay above the yourx
    tuneBrowserDetection();
    if (fancy.browser.safari) {
      fancy("embed").attr('wmode', 'transparent');
      fancy("embed").parent().html(fancy("embed").parent().html());
 }
}
var selectionInterval, twitterInterval, imagesInterval;
function receiveAction(action) {
  if (action == "clipping") {
    // Selection
    sendSelection();
    selectionInterval = setInterval(checkSelection, 300);
    // Twitter
    if (getDomainHost(url).match('twitter.com')) {
      twitterInterval = setInterval(setTwitterButtons, 1000);
    }
       imagesInterval = setInterval(setImagesOverlay, 1000);
    setImagesOverlay();
    setImagesClickHandler();
  } else {
    clearInterval(selectionInterval);
    clearInterval(twitterInterval);
    removeTwitterButtons();
    clearInterval(imagesInterval);
    removeImagesOverlay();
  }
}
```

```
function updateSize(yourxDimensions) {
  fancy("#fancyr-window").width(yourxDimensions.width)
                                       .height(yourxDimensions.height +
8);
}
function hasLoaded() {
 return fancyr init.iframeLoaded;
}
function closeyourx() {
 receiveAction('closing');
  fancyr init.iframe = false;
  fancyr init.iframeLoaded = false;
  fancy("#fancyr frame iframe").slideUp(500);
  fancy("body").unbind('mouseup mousedown');
 if (fancy().delay) {
   fancy('#fancyr frame').delay(600).remove();
  } else {
    fancy('#fancyr frame').remove();
 }
}
var lastSelection = '<null>';
var SELECTION MAX SIZE = 100000;
function checkSelection() {
 if (!hasLoaded()) return;
 var selection = getSelectionHTML();
 if (selection != lastSelection) {
   lastSelection = selection;
   sendSelection();
 }
}
function sendSelection() {
 var data = {
   url: url,
   title: document.title,
    selection: lastSelection
 };
 if (data.selection.length > SELECTION MAX SIZE) data.selection =
data.selection.substring(0,SELECTION MAX SIZE);
```

```
fancy.pm({
    target: getfancyrWindow(),
    url: domain+"/yourx",
    type: "selection",
   data: data
 });
var getSelectedText = function(){
 var t = '';
 if(window.getSelection) {
    t = window.getSelection();
  }else if(document.getSelection) {
    t = document.getSelection();
  }else if(document.selection) {
    t = document.selection.createRange().text;
 return t;
}
function getSelectionHTML() {
 var userSelection;
 if (window.getSelection) {
    userSelection = window.getSelection ();
    // Get the range:
    if (userSelection.getRangeAt) {
      if (userSelection.rangeCount > 0)
        var range = userSelection.getRangeAt(0);
      else
       return '';
    } else {
      var range = document.createRange ();
range.setStart (userSelection.anchorNode, userSelection.anchorOffset);
range.setEnd (userSelection.focusNode, userSelection.focusOffset);
   }
    var clonedSelection = range.cloneContents ();
    var div = document.createElement ('div');
    div.appendChild (clonedSelection);
    return div.innerHTML;
  } else if (document.selection) {
    // Explorer selection, return the HTML
    try {
```

```
userSelection = document.selection.createRange ();
      return userSelection.htmlText;
    } catch (err) {
      return '';
    }
  } else {
   return '';
 }
}
function setTwitterButtons() {
  if (!hasLoaded()) return;
 // Add buttons
 fancy('.tweet').not(':has(.sm-lock)').find('.stream-item-
footer').not(':has(.fancyr-clip-tweet)').each(function() {
    fancy('.context',this).after(
      fancy('<a href="#" class="fancyr-clip-tweet details">Clip
tweet</a>')
        .css('color','#D03737')
        .css('vertical-align','middle')
        .css('padding-right', '6px')
        .css('font-weight','bold')
   );
  });
  // Set buttons callback
  fancy('.tweet .fancyr-clip-tweet').die('click').live('click',
function() {
    var tweet = fancy(this).parents('.tweet');
    var data = {
      tweet id: tweet.attr('data-tweet-id'),
      tweet author: tweet.attr('data-screen-name')
    }
    fancy.pm({
     target: getfancyrWindow(),
      url: domain+"/yourx",
      type: "clip-tweet",
     data: data
   });
 });
function removeTwitterButtons() {
  fancy('.tweet .fancyr-clip-tweet').remove();
```

```
}
function blockedWebsite() {
  return url.match('flickr\.com/photos/.+?/.+?/') ||
         url.match('google\..{2,4}/images') ||
         url.match('scribd\.com/doc') ||
         url.match(/((http:\//(itunes\.apple\.com\/.*))|(https:\//
(itunes \cdot .apple \cdot .com \cdot / .*)))/i)
function blockedImageUrl(imageSrc) {
  return imageSrc.match('google\.com/vt/lyrs') ||
         imageSrc.match('google\.com/kh/') ||
         imageSrc.match('maps\.gstatic\.com') ||
         imageSrc.match('ytimg\.com') ||
         imageSrc.match('googleapis');
}
var fancyrImageCount = 0;
function setImagesOverlay() {
 if (!hasLoaded()) return;
  if (blockedWebsite()) return;
  var images = fancy('img').filter(function () {
    return fancy(this).height() > 128 && fancy(this).width() > 128 &&
fancy(this).is(":visible");
  });
  updateImagesOverlay();
  images.each(function () {
    var image = fancy(this);
    if (!image.attr('data-image-id')) {
      var imageSrc = image.get(0).src;
      if (blockedImageUrl(imageSrc)) return;
      var div = fancy('<div />');
      fancy("body").prepend(div);
      var maxZindex = 2147483646;
      var imageZindex = parseInt(image.css('z-index'));
      if (isNaN(imageZindex)) {
        var zindex = maxZindex;
      } else {
        var zindex = imageZindex + 1;
```

```
if (imageZindex >= maxZindex) {
          image.css('z-index', maxZindex - 1);
        }
      if (zindex == 1 && fancy.browser.msie) zindex = maxZindex; // IE
doesn't distinguish between z-index: auto and 0
if (fancy('#tumblr lightbox').size() > 0)
 fancy('#tumblr lightbox').css('z-index', maxZindex-1);
      div.attr('style','\
           position: absolute !important;\
        color: white !important;\
        z-index: '+zindex+';\
        word-wrap: no-wrap; \
      div.attr('class','clip-image-overlay')
         .html('<a href="#" data-image-id="'+fancyrImageCount+'" data-
image-src="'+imageSrc+'" class="fancyr-clip-image">Clip image</a>')
         .offset(image.offset())
         .show();
      image.attr('data-image-id', fancyrImageCount);
      var a = fancy("a", div);
      a.attr('style', '\
           position: absolute !important;\
           margin: 5px !important;\
           width: 74px !important;\
           text-align: center !important;\
           color: white !important;\
           font-family: \"Helvetica Neue\", Helvetica, Arial, sans-serif !
important; \
        font-size: 14px !important;\
        font-weight: normal !important;\
        font-style: normal !important;\
        line-height: 18px !important;\
        letter-spacing: normal !important;\
        padding: 4px 8px !important;\
        background-color: #D03737 !important;\
background-image: -webkit-linear-gradient(top,transparent,rgba(0, 0,
0, 0.05)) !important;\
        background-image: -moz-linear-gradient(top, transparent, rgba(0,
0, 0, 0.05)) !important;\
```

```
background-image: linear-gradient(top, #EE5F5B, #BD362F) !
important; \
        background-repeat: repeat-x !important;\
        border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0.1) rgba(0, 0,
0, 0.25) !important;\
        border-radius: 3px !important;\
        text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25) !important;\
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.8),0 1px 1px
rgba(0, 0, 0, 0.25) !important;\
        text-decoration: none !important;\
      ');
      fancyrImageCount += 1;
 });
}
function setImagesClickHandler() {
  fancy('div.clip-image-overlay').die("click").live('click',
function() {
var imageSrc = fancy(this).children('a[data-image-src]').attr('data-
image-src');
    fancy.pm({
      target: getfancyrWindow(),
      url: domain+"/yourx",
      type: "clip-image",
      data: {imageSrc:imageSrc}
    });
   return false;
 });
}
function removeImagesOverlay() {
  fancy('div.clip-image-overlay').each(function() {
    var div = fancy(this);
    var imageId = fancy('a[data-image-id]',this).attr('data-image-
id');
    fancy("img[data-image-id=" + imageId + "]").removeAttr('data-
image-id');
   div.remove();
 });
function updateImagesOverlay() {
  fancy('div.clip-image-overlay').each(function(){
```

```
var imageId = fancy('a[data-image-id]',this).attr('data-image-
id');
    var image = fancy("img[data-image-id=" + imageId + "]");
    if (image.length == 0) {
     fancy(this).remove();
    } else {
      var imageOffset = image.offset();
      var currentOffset = fancy(this).offset();
      var pad = 2;
if (imageOffset.top > currentOffset.top + pad || imageOffset.top <</pre>
currentOffset.top - pad ||
imageOffset.left > currentOffset.left + pad || imageOffset.left <</pre>
currentOffset.left - pad ) {
        fancy(this).offset(imageOffset);
      fancy('a[data-image-id]', this).attr('data-image-src',
image.get(0).src);
 });
}
```

1) Create a table and let us know what are the different functions/module in the code doing. Do take time and explain as much you can. (More points for it!)

Function name	What its for?