## QR code scanning with Blackboard

**How this Works**

1. A QR Code for each student is generated by Blackboard within each paper.
2. Scanning this QR code populates Google form and Google spreadsheet which track date and time each student attended.



**Setup**

1. **Create** or **log in** to your Google Drive – www.drive.google.com
2. **Create** a google form called Attendance with three short answer fields:
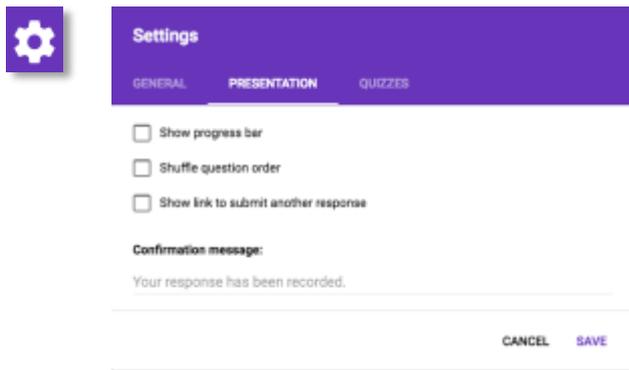   - Course ID
   - Full Name
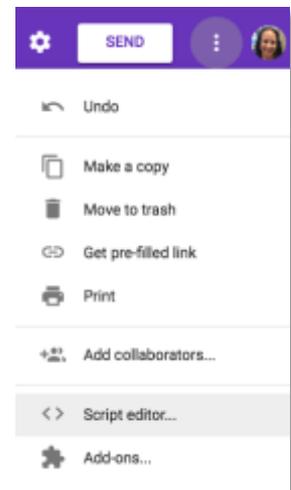   - User ID

3. **Preview** the form

4. **Fill in** the form with the following:
   - Course ID = CourseID
   - Full Name = FullName
   - User ID = UserID

   SUBMIT

5. **Disable** submit another response in the settings and **save** this setting:
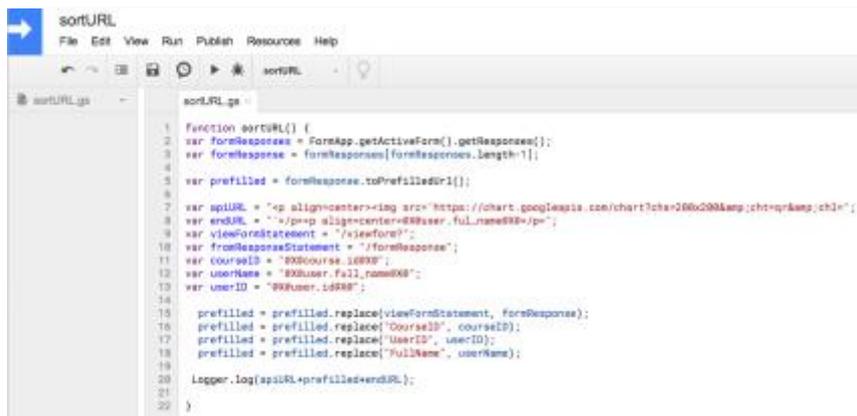


6. **Open** the script editor:

7. **Delete** all text in the in the right-hand side pane and **copy** the below text into the right-hand pane.

```
function sortURL() {
var formResponses = FormApp.getActiveForm().getResponses();
var formResponse = formResponses[formResponses.length-1];
var prefilled = formResponse.toPrefilledUrl();
 prefilled = prefilled.replace(/\s/g, "");
 prefilled = prefilled.replace("https://docs.google.com/forms/d/e/", "");
 prefilled = prefilled.replace("/viewform?usp=pp_url&",
"/formResponse?");
 prefilled = encodeURIComponent(prefilled);
 prefilled = prefilled.replace("CourseID", "@X@course.id@X@");
 prefilled = prefilled.replace("UserID", "@X@user.id@X@");
                prefilled = prefilled.replace("FullName",
            "@X@user.full_name@X@");

var url = "<p alignj=center><img
src='https://chart.googleapis.com/chart?chs=200x200&cht=qr&chl=https://do
cs.google.com/forms/d/e/"+prefilled+"'></p><p
align=center>@X@user.full_name@X@</p>";

  Logger.log(url);
}
```
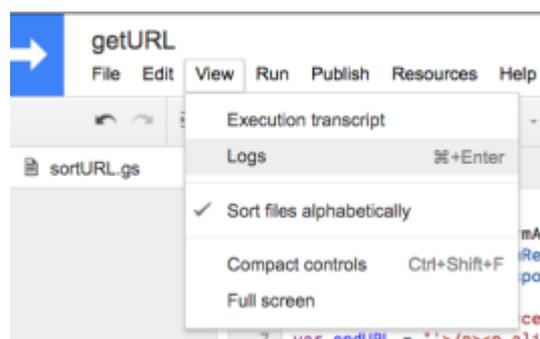


Your script will look similar to the one above but may not be exactly the same.
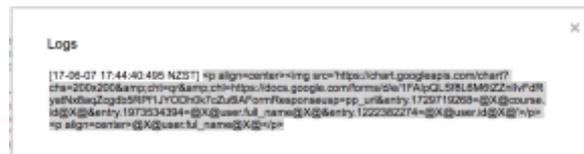
8. **Save** this script with the name sortURL.   

   • A popup may appear asking for Authorization – review permissions and allow this.

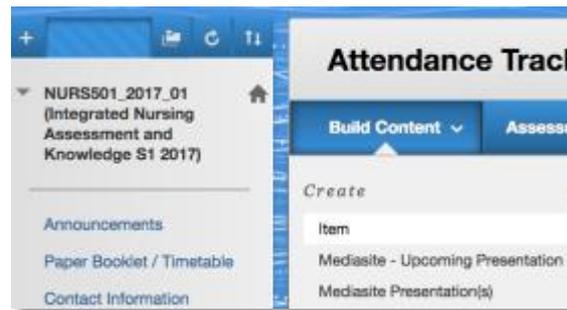9. **Run** the script then view the Log file

10. **Copy** the selected text from the log file



*** Your HTML will look similar to the one above but may not be exactly the same.

11. In Blackboard create a new **item** where students can find their QR code.



12. In the text box click on the button labelled **HTML**.
13. Paste the text from the log copied earlier and **update** this



Your HTML will look similar to the one below but may not be exactly the same.

14. **Submit** the new item on Blackboard.



The result should look something like this with your name on the bottom.

15. Download a QR code scanner for your phone or tablet for example:
    o Apple = https://itunes.apple.com/nz/app/qr-code-reader-and-scanner/id388175979?mt=8
    o Android = https://play.google.com/store/apps/details?id=com.google.zxing.client.android&hl=en
    o Windows = https://www.microsoft.com/en-nz/store/p/barcode-scanner/9wzdncrfj0k8

**Congratulations:**
You now have an individual QR code for each student on your Blackboard course page which links with your attendance form.

**Let Students Know**

1. they have an individual QR code and where to find this.
3. bring this to class on their device or paper

**Video**

Scanning a QR Code using an iPhone
- https://www.youtube.com/watch?v=8RyHmzcZugQ