BUSI3401 Winter 2012-2013

Assignment 3 – Intro / Finishing Touches

Released: *Mar 19, 2013*

Date Due: ***April 5, 2013, Midnight****
(To prevent confusion, it is listed as 11:55pm on the website. You will not be penalized for submitting between 11:55pm and midnight)

Assignment Mark Total: *100*

Assignment Value: *20% of overall course mark.*

To finish your contract, MacroPlay Games and Video would like you to expand the range of devices that can interact with their website. They would also like to add a few finishing touches.

Feature 1 – Device Aware Site (20 marks)

1. Detect the device used to access the website. Add a second layout for your site, for either a mobile device or tablet (this will give you two layouts total: Desktop/laptop and mobile/tablet). Layouts should change the browser size and should allow the main content items to be displayed pleasingly. You can remove items which are not part of the central site layout. Colours and general style items should be the same for the different browser versions.

Feature 2 – Introduction Animation (60 marks)

1. The very first time, and only the first time a user accesses the site, play an animation for them that introduces the company. Use a combination of shapes, text, images, primitives (or models – but keep in mind copyright) to create a pleasing intro to the company on a canvas laid over the <header> area on the first page. Your animation can use 2d animation or the Three.js library with the WebGL canvas. Store that the site has played the intro in WebStorage. If the intro has been played before, present a small button somewhere in the header area that lets you play it again. Otherwise, it will not appear.

Feature 3 – Geolocation Widget (20 marks)

1. Create a button somewhere (elegantly placed) on the main page that will tell the user how far away they are from the MacroPlay store in kilometres. Use 45 Latitude, 75 Longitude as your store location. At that location, one degree of latitude and longitude is equal to 79km. You can therefore calculate the distance using the following formula:

Distance to store (km) = Square Root ((Current Latitude – 45)^2 + (Current Longitude +75)^2) * 79

Use the Geolocation API to determine your current location, and then do the math.