300976 Technologies for Mobile Applications

Application Project – Instructions

Version 1

1 Introduction

Your task is to create an ebook reader that retrieves the book data from a network source and displays a portion of it.

2 Layout

Your screen should be designed in a responsive fashion, with the following requirements.

There should be a navigation area, that if the device is taller than wide is positioned on the top of the display, otherwise it should be positioned on the left hand side. This area should always be visible. There should also be a content area that contains the ebook text, that should be scrollable. In addition, if the device is handheld then the background should be a pale yellow colour, and white otherwise.

3 Data

The data for the ebook reader will need to be retrieved from a web service. The service is located at http://tmaserv.scem.uws.edu.au/chapters/, which when called will return a JSON object with the number of sections available as the num attribute to be retrieved. In invoking the service with a a valid n parameter (i.e. between 0 and num-1, for example http://tmaserv.scem.uws.edu.au/chapters/?n=0 will retrieve the first section) will return a section of the book, again as a JSON object, with a type attribute that is either bigheading, heading or paragraph that determines the type of the section, and a data attribute that has the contents. Sections can only be fetched one at a time. Please note that different data will be used for marking.

Your reader should only maintain 5 sections of the document in the DOM at any one time, you will need to fetch the first 5 as the document loads, and then fetch additional sections on request.

4 Submission

You should submit, one file that contains the HTML5 markup, CSS rules and javascript code via the submission link on the vUWS site, you may submit as many times as you like before the due date.

5 Marking Guide

A marking rubric will be published on the vUWS site.