

We need the following built

J2ME midlet for a Nokia Mobile (S40 operating system) which does the following:

1. Midlet starts with one input field
2. User enters a number into the field
3. Midlet uses phone data connection (i.e. http connection) to contact a website (we will specify website address to the winning bid)
4. Website returns XML document with list of http links and/or file links and other additional information see XML document below.
5. Midlet displays list of http links and file links in order received in XML file
 - a. If user clicks on 'http' link phone goes to http web page (midlet will shut down)
 - b. However if user clicks on 'file' link
 - i. Midlet searches users phone sd card (at a given file path) for multimedia file
 - ii. If the file IS found on the local sd card it is played
 - iii. If file is NOT found
 1. a notice is printed to the display to tell the user that the file is being downloaded and is of 'filesize' and will take approximately $15 + \text{'filesize'}/22$ seconds to download
 2. the file is downloaded from the URI
 3. the downloaded file is saved to the phones sd card to the 'filepath' specified (creating the folders if required)
 4. the file is then played from the sd card
 - iv. On completion playing the file the midlet returns to the menu list (step 5 above).

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<result>
  <links>
    <link type='http'>
      <id>[integer: an id number]</id>
      <display>[string : link title]</display>
      <uri>[string: some web address]</uri>
    </link>
    <link type='file'>
      <id>[integer: an id number]</id>
      <display>[string: media title]</display>
      <filepath>[string: /someFolder/someFileName]</filepath>
      <filesize>[integer: size of file in kilobytes]</filesize>
      <uri>[string: some web address]</uri>
    </link>
  </links>
  <verKey>[string: some long string]</verkey>
</result>
```