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<!--
alesson.dtd
An XML DTD for Albert exercises.
Version 1.0
Janne Himanka <shem@oyt.oulu.fi> 19981103
-->

<!ENTITY % mixed "(#PCDATA|glink)*">
<!ELEMENT alesson (head,intro,exercise*)>
<!ATTLIST alesson
    xml:lang      NMTOKEN  #REQUIRED
    exam          (0|1)    "0">
<!--
xml:lang is supposed to contain the name of the language
of the questions and answers of this lesson. Full,
capitalized English name of the language is used.
Exam controls whether to show the right answer if the user has entered
the maximum allowed number of wrong answers.
-->

<!--
Metadata. Will change to Dublin Core once it is clear how Dublin Core
should be incorporated in XML documents.
-->
<!ELEMENT head (author,date,name,seq,subject,langs,attempts,change*)>

<!-- Shall we show all exercises at once or one at a time -->
<!ELEMENT seq EMPTY>
<!ATTLIST seq display (at-once|one-by-one) "at-once">

<!-- Keywords describing the content of this lesson -->
<!ELEMENT subject (#PCDATA)>

<!-- The user interface languages of this lesson -->
<!ELEMENT langs (#PCDATA)>

<!-- How many attempts per question are allowed -->
<!ELEMENT attempts (#PCDATA)>

<!-- Revisions to this lesson -->
<!ELEMENT change (date,resp)>

<!-- The person responsible for this change -->
<!ELEMENT resp (#PCDATA)>

<!-- Original author of this lesson -->
<!ELEMENT author (#PCDATA)>

<!-- date in short ISO8601 format, e.g. 19980228 -->
<!ELEMENT date (#PCDATA)>

<!-- name of the lesson -->
<!ELEMENT name (#PCDATA)>

<!--
Introduction to the lesson. Can be either a short text-only
instruction or a link to a lengthier document.
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<!ELEMENT intro (para)+>

<!-- Link. Target should be an HTML document. -->
<!ELEMENT glink EMPTY>
<!ATTLIST glink
  xml:link      CDATA   #FIXED "simple"
  href          CDATA   #REQUIRED
  sub           (0|1)   "0">

<!-- Short plain text introduction -->
<!ELEMENT para (#PCDATA|glink)*>
<!ATTLIST para
  xml:lang      NMTOKEN #REQUIRED>

<!-- Individual exercise -->
<!ELEMENT exercise (question,correct+,instruction*,hint*,wrong*,endnote*)>
<!ATTLIST exercise
  id            ID          #REQUIRED
  case         (sensitive|insensitive) "insensitive">

<!ELEMENT question (#PCDATA|select|input)*>

<!-- Multiple choice select as in HTML -->
<!ELEMENT select (option)+>
<!ATTLIST select
  id    ID    #REQUIRED>
<!ELEMENT option (#PCDATA)>

<!-- Placeholder for the user input field -->
<!ELEMENT input EMPTY>
<!ATTLIST input
  id    ID    #REQUIRED>

<!-- The correct answer -->
<!ELEMENT correct (#PCDATA)>

<!-- Text to be output at the end of exercise -->
<!ELEMENT endnote %mixed;>
<!ATTLIST endnote
  xml:lang      NMTOKEN #REQUIRED>

<!-- Instruction for this question -->
<!ELEMENT instruction %mixed;>
<!ATTLIST instruction
  xml:lang      NMTOKEN #REQUIRED>

<!-- Hint in case of a wrong answer -->
<!ELEMENT hint %mixed;>
<!ATTLIST hint
  xml:lang      NMTOKEN #REQUIRED>

<!-- Anticipated wrong answer -->
<!ELEMENT wrong (anticipated,reaction)>
<!ATTLIST wrong
  xml:lang      NMTOKEN #REQUIRED>

<!ELEMENT anticipated (#PCDATA)>
<!ELEMENT reaction %mixed;>

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