Differences in app/Report

HtmlRenderer.php

1. public float $cellHeightRatio = 1.2;   // 1.8
   1.8 is too much, gives a lot of white space

2. The headerdiv needs a margin at the bottom, 10pt selected

3. The height of the bodydiv is calculated in the original but gave a too high value which gave a lot of white space after the body. Therefore another calculation is tried.

4. Same for footerdiv.

5. Line lengths are calculated to decide where to insert new line characters if needed. However, complex characters as &#2570 are counted as 6 characters although they are shown as one single character, this is also corrected.

PdfRenderer.php

1. It seems as if the page headers are not given any space. As default a heuristic value of 55.5 points is selected for top_margin.

ReportHtmlTextbox.php

Many changes are needed to let html blocks have position=relative. The introduced solution was a hack that made it possible but is very ugly! It manipulates the top value using negative values, ReportParserGenerate.php generates the values.

- < -200000 for absolute positions: add 222000 to get the real value of top

- -100000 to -90000: both pdf and html, < -100000 only html:
  add 90000 and if result is < -10000 add also 10000 to get the real value of top normally a small negative value.

Images are allowed in textboxes and a trick is needed so that images in previous textbox are ignored.

ReportHtmlText.php

The number of linefeed characters in the text are counted to get the number of lines, the calculation is corrected.

ReportPdfTextBox.php

1. Images are allowed in textboxes and need some additions and changes.

2. Many additions similar to ReportHtmlTextbox.php above but ignore values > -95000.

3. Corrections to reduce generated white space.

ReportPdfText.php

Tcpdf does not support box-drawing chars, change them to simple characters.
Count some html entities as one character (, &#A0, …).

ReportParserGenerate.php

Many new features are added to the xml report language! A separate document tries to describe the language, both previous and added features.

<TextBox … pos="…" ...

To use position=relative for html entities allows the browser to calculate block sizes, which is much better than to try oneself. The absolute positions that are calculated differ too much from what is shown, especially for long documents. A hack described above is used, a new attribute for text boxes is introduced, pos="…", see the language description.

<GetPersonName … select="…"

The name that was returned was always the first name stored. In som reports it could be useful to get another name. select="latest" gives the latest name record, probably the latest name used by the person. select="combined" gives a combination of the full latest name + "b." + first surname, "b." stands for "born", i.e. name at birth. This is a very common way to specify names in Sweden.

<GedcomValue … truncate="…"

Some reports have limited space for the output. An integer can be specified to limit the number of characters. This is an approximation since the field widths are given in points. E.g. the string "mw" uses more points than "il". For date values two other options are available, truncate="Y" selects only the year, and truncate="d" selects the short (three characters) month names, jan,feb, et c.

Minor error corrections and changes

The page format names contain lower-case letters, e.g. "US-Letter". Shall not be converted to upper case! (Reported a couple of years ago.)

Counting of the lines to include in "<Facts", "<List" and "<Relatives" were wrong.

Lower-case characters

In the reports that try to give a description in a narrative style the first letter of a profession should be lower case in a sentence even if it was specified with the first character in upper case.

<GetPersonName … fam_relation="1"

Another addition to the GetPersonName element is the possobility to include an indication of tyhis person's relation to the person that the report starts from. For ancestor reports the relation can be mother, father, sibling (m,f,x), e.g mmf = mother's mother's father, ffx = father's father's sibling. For descendents son, daughter, partner (s,d,x) are used. This required a substantial amount of code.

Ordering of facts

When facts and events are to be included in a report it is much better to include them in chronological order, not ordered by fact or by time of addition. It is also desirable to report when a person's partner dies. Therefore an event is added during the report generation, "_SP_DEAT". This also required some code. The facts shown an the first page for an individual also does this so smewhere else similar code must exist.

<SetVar … value="@$…"

It was possible to assign a value to a var with indirect name, but not possible to retrieve it. This feature allows that. `<setvar name="$xxx" value="$yyy"/>` assigns the value of yyy to a variable the name of which is the value of xxx. If xxx=new and yyy=22 then new=22 after this. Now `<setvar name="w" value="@$xxx"/>` uses the value of xxx as a name of a variable to retrieve, i.e. w gets the value of variable new, i.e. 22, w=22 after this. Quite useful!

A special assignment is `<setvar name="any" value="@$dump"/>` that has the side effect of logging something in a special file, my_errors.log, at the top of the webtrees installation. As specified above all variables are printed. With attribute dumpvar="varname" only that variable is printed.

Duplicates

It happens that relatives as cousins or second cousins get married. That is now noted in the reports, the second instance is a reference to the first.