Reporting System: SAP Crystal Reports

IDE: Visual Studio 2019 C#

Database: SQL Server Management Studio 2019

Book Inventory Report – This section of the module will aim to  
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report the inventory for the current year by retrieving the compiled  
information that has been stored in the system’s database and  
allows the account that is currently being logged in to modify  
which columns are to be included once the report has been printed.  
Users can also choose how the information should be sorted out  
before printing the said reports. This section of the reporting  
module can only generate reports through either a tabular format, a  
narrative format, or a combination of both. After selecting the type  
of format on how these reports should be organized, the staff can  
then generate a printout of these reports.  
oBorrowed Books Report - This section of the module reports  
which of the books have been borrowed, which members’/book  
borrowers have borrowed the book, and the duration on when have  
they being borrowed for a particular period of time. Similar to how  
Book Inventory Reports are processed and be customized  
according to the user’s preference before printing, users can also  
choose how the information should be sorted out before printing  
the said reports. The report can be customized on which timeframe  
can it able to provide reports with, either weekly, monthly, or  
annually. The user can customize on which visualizations are to be  
used in generating these reports such as presenting the information  
in a tabular format or presenting the said information in a narrative  
format, or a combination of both before generating a printout of  
the said report.  
oMember’s Borrowed Books Report – This section of the module  
reports on which books and how long did a particular member of  
the Cagayan de Oro City Public Library had borrowed these over a  
particular time period. This section of the reporting module is  
connected to one of the sections of the kiosk module so that  
members can request their records whenever they need it and can  
select which timeframe they want the system to generate on the  
report. Additionally, they could select on how the report should be  
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visualized with the same options on how book inventory reports  
should be generated, either in a tabular format, a narrative format,  
or a combination of both before generating a printout of the said  
report.  
oMembership Frequency Report – This section of the module  
reports on how many members have registered as a member of the  
Cagayan de Oro City Public Library over a particular time period.  
Similarly, the staff have the same options on which timeframe are  
they going to display on the said report. The logged in accounts  
may able to select their preferred form on how would these sets of  
information should be reported. Similar to what options are  
available in how the other reports are to be generated, the staff can  
choose to either visualize it in either a tabular or a narrative  
format, or a combination of both. They could also make the report  
generate  
it through bar or line graph formats but these visualizations would  
only provide information on the selected timeframe, the segmented  
sections of the selected timeframe, and the number of people that  
have registered as a member on the library along with the  
visualization of their preference before generating these reports as  
printouts.  
oClient Logbook Report – This section of the module reports on  
how many clients had logged in through the kiosk to read books in  
the Cagayan de Oro City Public Library over a particular time  
period. Similar to how other reports are organized chronologically,  
the available options would be the same. The logged in accounts  
may able to select their preferred form on how would these sets of  
information should be reported. Similar to how the membership  
frequency report is to be visualized depending on the staff’s  
preference, the reports can be visualized through a tabular format,  
a narrative format, a combination of the two, or visualized through  
bar or line graph formats before printing it out