

Description:

- The component diagram follows the MVC model, with the Student Printing History Page and System Printing History Page components as the View element, the Controller element separated into two different components in SearchController and ReportController, and the LogsDatabase as the main component of the Model element.
- At the Student Printing History Page, student user can request to see their history by sending the time period. The SearchController will use that time period as well as the user's own StudentID to search for the requested logs by creating a query at the LogsDatabase. This will create a SearchResults which will be sent back to the user.
- At the System Printing History Page, the SPSO user can request to see the history of the entire system by also sending the time period. The only difference is that the SearchResults shows the whole system's logs instead of just one student. To view a specific student or printer's history in that time period, the System Printing History Page provides a filter which will be used to filter the SearchResults generated previously.
- The ReportController will automatically request the database to create a MonthlyReport at the end of each month. At the System Printing History Page, the SPSO user can request to see the report of a specific month. The ReportController will find the appropriate MonthlyReport and display it to the user.