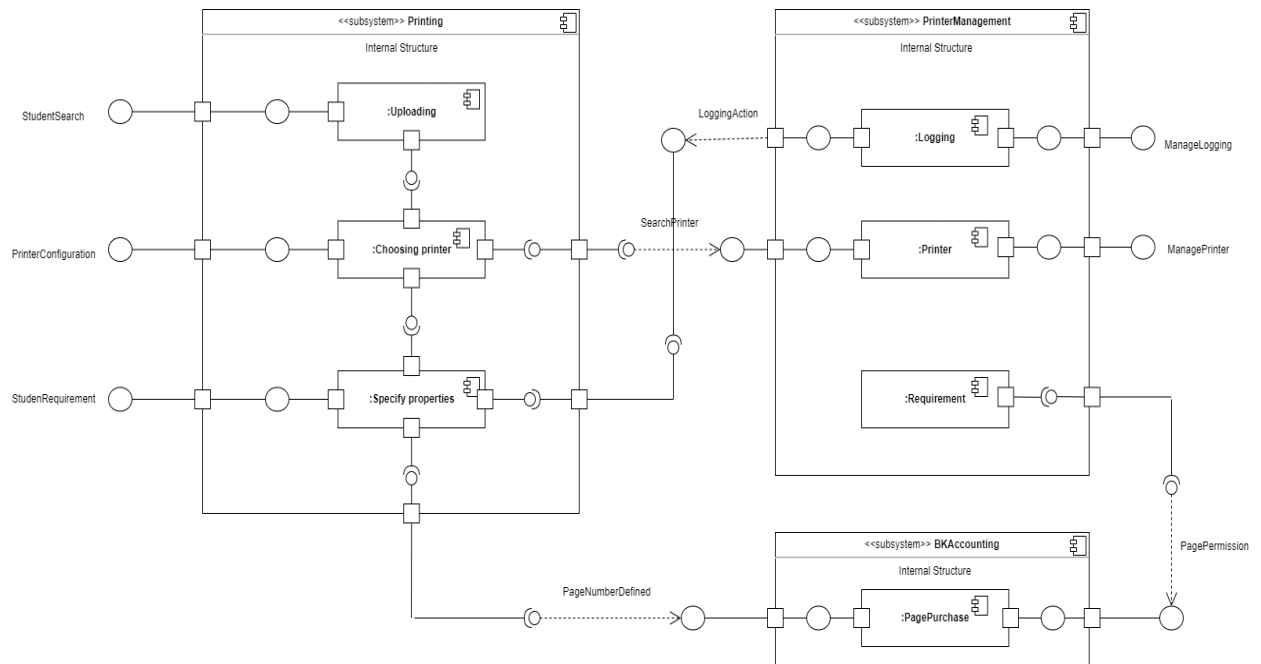


3.2. The component diagram and paragraph to describe the Printing Service Module.

3.2.1. The component diagram of the Printing Service Module



3.2.2. The Paragraph to describe the Printing Service Module.

The component diagram above is used to describe the structures and operations of Printing Service Module. As you can see, the diagram has three subsystems which are called Printing, Printer Management and BK Accounting, respectively. Firstly, we come with the Printing Subsystem. It has three components which are called Uploading, Choosing Printer and Specify Properties. The students will need to search for the documents in order to be ready for uploading file. Then, this Uploading component will provide the Choosing Printer component with its documents for uploading. The students now will find out the suitable Printer Configuration to choose the most proper one. When we complete this step, we then define the properties in the Specify Properties component. Secondly, turning to Printer Management Subsystem, this one also has three components which are called Logging, Printer and Requirement. The logging component is responsible for logging the student actions such as student ID, filename, printer ID, etc. Moreover, this component depends on the Specify Properties component. It means, the Specify Properties component is the required step to continue with the Logging component. All of the actions of students will be logged into the Logging component. In the Printer component, it will list all printers for

the students to choose in the Choosing Printer component. Finally, we will finish this component diagram with the BK Accounting Subsystem which includes just only one component called Page Purchase. At some semesters, students can buy more pages online through the BK payment. But it is limited about the number of the pages. So, the Requirement component in the Printer Management Subsystem requires the suitable number of pages, that is why it depends on the Page Purchase component. The last relationship is between the Page Purchase and the Specify Properties. The Page Purchase component will give the number of pages for the students in order to get the desired number of copies for their document file. As a result, the Specify Properties component will depend on the Page Purchase component.