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| --- | --- | --- | --- | --- | --- | --- |
| Process | System Report | | | | | |
| Human | Non-computing Hardware | Computing Hardware | Software | Database | Internet & Communication |
| Create new students account | **SPM Admin:**  1)Receives new Students info from Registrar’s office database  2)Generate new students accounts from provided information | **Pen, Paper and Stationaries:**  1) May be used by SPM admin note-down any corrupted information sent from registrar’s office | **Computer:**  1)Used by SPM Admin to receives data from registrar’s office database & generate new Students accounts  **Database Server:**  1)Registrar’s office DB from which new students information will be sent  2)SPM DB in which new students account will be stored | **Operating System:**  Used by SPM Admin to operate their computer  **Office Suite:**  May be used to store information locally in Excel format | **RDBMS:**  1) Used by both SPM DB & Registrar’s office DB to stored information  **Excel Software:**  May be used to store information locally in Excel format | **Internet:**  1) Used to access and modify SPM database  2)Communicate between SPM Admin & Registrar’s office  **Telephone:**  Used for verbal communicate between SPM Admin & Registrar’s office |
| Update PLO on SPM DB | **Higher Authority:**  1) Gets PLO from UGC/IEB  2) Stores PLO in SPM DB  **UGC/IEB:**  Send PLO to Higher authority | **Pen, Paper and Stationeries:**  1) May be UGC/IEB Send printed version of PLO. | **Computer:**  1) Used by UGC/IEB to send PLO  2) Used by higher authority to store PLO  **Database Server:**  Store PLO information for SPM | **Operating System:**  Used by both higher authority and UGC/IEB to operate their computer  **Office Suite:**  Used by UGC/IEB to create or modify PLO | **RDBMS:**  Used for SPM DB to stored PLO information | **Internet:**  1) Used by UGC/IEB to provide PLO to higher authority  2) Used by higher authority to stored PLO in SPM DB  3) Used to communicate between higher authority and UGC/IEB  **Telephone:**  Used for verbal communication between higher authority and UGC/IEB |
| Sends Student Reports to UGC/IEB | **UGC/IEB:**  1) Receive Student reports from SPM DB | **Pen, Paper and Stationeries:**  May be used by UGC/IEB to print the report  **Folder:**  May be used by UGC/IEB to stored printed report | **Computer:**  Used by UGC/IEB to view report  **Printer:**  May be Used by UGC/IEB to print report  **Database Server:**  Used by SPM DB store student reports | **Operating System:**  Used by UGC/IEB to operate their computer  **Printing Software:**  Maybe Used by UGC/IEB to print report | **RDBMS:**  Used for SPM DB to store student reports | **Internet:**  1) Used by UGC/IEB to view students report from SPM DB  2)Used by higher authority to stored PLO in SPM DB  3)Communicate between higher authority and UGC/IEB |
| Submit students’ course-wise mark sheet to SPM DB | **Faculty:**  1)Receives student assessment from a certain course  2) update student mark sheet to SPM DB for that certain course | **Pen, Paper and Stationaries:**  1) May be used by students to take lecture, write assignments, reports or take exam.  2) May be used by faculty to write lecture outline or print exam questions  **Folder:**  May be used by teacher to store students’ assignments, exam papers or mark sheet | **Computer:**  1) May be used by student to send assignments, reports or take online exams  2) May be used by faculties to view and mark the given reports, assignments or exams  **Database Server:**  Used by SPM DB store student mark sheets | **Operating System:**  1) Used by both faculties and students to operate their computers  **Office suite:**  1) Used by students to write assignments and reports  2) Used by faculty to write lecture outline or print exam questions | **RDBMS:**  Used to store students’ course wise mark sheet to SPM DB  **Excel Sheet:**  Used by faculties to store student mark sheets locally | **Internet:**  1) Used by students to submit the reports, assignments or take online exams  2) Used by faculty to receive student assessment  3) Used by teacher to store students course wise mark sheet to SPM DB  4 Communicate between student and teacher |
| Update PLO-CO mapping to SPM DB | **Faculty:**  1) Discuss PLO-CO among each other  2) Submit PLO-CO mapping in SPM DB | **Pen, Paper and Stationeries:**  1) May be used by faculty to print the PLO-CO mapping | **Computer:**  1) Used by faculty to PLO chart and submit PLO-CO mappings  **Printer:**  May be used by faculty to print the PLO-CO mapping  **Database Server:**  Used by SPM to store PLO info and PLO-CO mappings | **Operating System:**  Used by faculty to operate their computer  **Printing software:** May be used by faculty to print the PLO-CO mapping | **RDBMS:**  Used by SPM DB to store PLO-CO mapping | **Internet:**  1) Used by faculty to store the PLO-CO mapping  2) Used to communicate with faculties and higher authorities  **Telephone:**  Used for verbal communication between faculties and higher authorities |
| View student CGPA and transcript | **Student:**  View their individual student CGPA and transcript | **Paper:**  May be used to print transcript  **Folder:**  May be used by store printed transcripts | **Computer:**  Used to view or download CGPA and transcripts  **Database Server:**  Used by SPM to store student mark sheets | **Operating System:**  Used by students to operate their computer  **Printing software:** May be used to print transcript  **Office Suite:**  Used to view transcripts in printable format | **RDBMS:** Used by SPM DB to store student mark sheets  **Excel Sheet:**  May be used by students to store CGPA locally | **Internet:**  Used by students to access SPM and view their CGPA and transcripts |
| Receive student CGPA and PLO trends | **VC:**  View student CGPA and transcript trends on their dashboard  **Dean of School:**  View student CGPA and transcript trends on their dashboard  **Head of Department:**  View student CGPA and transcript trends on their dashboard  **Faculty:**  View student CGPA and transcript trends on their dashboard | **Pen and paper:**  Used by the users to note down any particular trends in CGPA and PLO  **Folder:**  Used to store the papers | **Computer:**  Used to view CGPA and PLO trends  **Database Server:**  Used by SPM to store student CGPA and PLO trends | **Operating System:**  Used by the users to operate their computer | **RDBMS:** Used by SPM DB to store student CGPA and PLO trends | **Internet:**  Used by the users to access SPM and view their CGPA and PLO trends |
| Approval for updated curriculum | **Higher Authority:**  1) Retrieve updated curriculum from SPM DB  2) Send them to UGC/IEB for approval  3) Receive approval or denial of curriculum from UGC/IEB  **UGC/IEB:**  1) Receive curriculum from higher authority  2) Analyze the curriculum  3) Send approval or disapproval | **Paper:**  May be used by the higher authority to send printed version of the curriculum | **Computer:**  1) Used by higher authority to send the curriculum to UGC/IEB and receive approval or disapproval  2) Used by UGC/IEB to receive the curriculum and send approval or disapproval  **Database Server:**  Used by SPM from where the curriculum is retrieved by the higher authority  **Printer:**  May be used by higher authority to print curriculum | **Operating System:**  Used by both higher authority and UGC/IEB to operate their computers  **Printing Software:**  May be used by higher authority to print curriculum | **RDBMS:**  Used by SPM DB to store curriculum information | **Internet:**  1) Used by higher authority to access SPM, retrieve the curriculum, send them to UGC/IEB and receive the approval or disapproval  2) Used by UGC/IEB to receive the curriculum from higher authority and send approval or disapproval  3) Used by both higher authority and UGC/IEB to communicate with each other  **Telephone:**  Used for verbal communication between UGC/IEB and higher authority |