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| Process | System Roles | | | | | |
| Human | Non-Computing Hardware | Computing Hardware | Software | Database | Network and Communication |
| Student Enrollment | **Student:**  a) Search for the website  b) Goes to the website.  c) Clicks  on the  form  option.  c) Fill up the  form with  required  Information.  **Registrar's Office:**  a) Checks  and  verifies  student  enrollment information from the  forms from  the website  or  hardcopy  forms  b) Registrar  Office’s  Admin  logs into  the system  using  Admin-ID and  password.  c) Sends  verified  student  information as an  attachment  to  Admin/Team.  **Admin:**  a) Admin  logs into  the system  using  SPMS  User-ID and  password.  b)  Receives  the student  enrollment information in the  attached  files.  c) Admin  updates the  student  enrollment information in  Database.  d) Notifies  respected  Stakeholders  **Department Head:**  a) Logs into  the system using them  User-ID  and  password.  b) Inputs  the desired  time  period for  number of  students  enrolled.  **Higher Authority (VC/ Dean) :**  a) Logs into  the system  using their  User-ID  and  password.  b) Inputs  the desired  time  period and  compare  School/Department  for the number of  students  enrolled  accordingly. **Faculty:**  a) logs into  the system  using  Faculty ID  and  password  b) Inputs  the ID of  the section  the faculty  is taking to view the students  enrolled. | **Paper and Stationery:**  a) Used to collect information about students through enrollment forms. |  | **Operating**  **Software**  a) Utilized by  Registrar  Office and  SPMS2.0.0  **Student**  a) Uses to fill  up the form  from the  website.  **SPMS2.0**  a) The software for which the administrator will set up user accounts. | **Register**  **Office**  **Database**  a) Used by the registrar's office to compile student data into an excel file for sending to SPMS 2.0.  **SPMS2.0**  a) For any upgrades or new user accounts, information is kept in the database.  **Excel**  a) Data from student accounts may be kept in an excel file and used later in SPMS 2.0. | **Internet**  a) To access and store data to SPM it is used.  b) It is used to collect the student form from the student to registrar office.  c)The Registrar office sends all the student information to SPM admin by using it. |
| Student Performance Based on CGPA | **Student:**  a) Logs into  the System  using  Student-ID  and  password.  b) Inputs the desired time - period to  view self  CGPA  Progress.  **Registrar's Office:**  a) Logs into  the System  using User-ID  and  password.  b) Inputs the  desired time  period and  School,  Department or program to view  Statistically and analyzed  CGPA trend  of students.  **Department Head:**  a) Logs into  the System  using User-ID  and  password.  b) Inputs the  desired time-  period and  school,  Department or program.  c) View  statistically analyzed  CGPA trend  of students or  any  individual student.  **Faculty:**  a) Logs into the system  using  Faculty-ID  and  password.  b) Inputs the  desired time  -period and  program to view  statistically and  analyzed  CGPA trend  of students or any  individuals student those  who attended  the faculty’s  Section.  **Higher Authority:**  a) Logs into the system  using their  User-ID  and  password.  b) Inputs the  desired time-  period,  School and  Department  c) View  statistically analyzed  CGPA trend of students. |  |  | **Operating**  **Software**  a) The user uses it to execute SPMS 2.0  **SPMS2.0**  a) A performance trend will be generated by the software. | **SPMS2.0**  **Database**  a) Obtain performance using the database. | **Internet**  a) To login into and access the SPM it is used. |
| Course-wise student performance based on CGPA | **Student:**  a) Logs into the system  using  Student-ID  and  password.  b) Inputs the  course  c) View self  GPA for the  course. **Department Head:**  a) Logs into the System  using User-ID and  password.  b) Inputs the desired time-  period  Course-ID  c) View statistically analyzed  GPA trend of  Students.  **Registrar’s office:**  a) Logs into the System  using  Admin-ID and  password.  b) Inputs the  desired time  -period and  coursed  c) view  statistically analyzed  GPA trend of  students.  **Faculty:**  a) Logs into the System  using  Faculty-ID  and  password.  b) Inputs the  desired time  -  period  Course-ID  under the  faculty  c)view  statistically analyzed  GPA trend of  students who faculty’s  section.  **Higher Authority:**  a) Logs into  the system  using their  User-ID  and  password.  b) Inputs the  desired time-  period and  Course-ID  c)View  statistically analyzed  GPA trend of  students for that specific  course. |  |  | **SPMS2.0**  a) A performance trend based on GPA will be generated by the software. | **SPMS2.0**  **Database**  a) Here, the performance will be stored and updated. | **Internet**  a) To login into and access the SPM it is used. |
| Selective Number of Instructor-wise student performance based on the GPA | **Department Head:**  a) Logs into the system  using User-ID and  password.  b) Inputs the  desired time-  period  Course-ID  c)View  statistically  analyzed  GPA trend of  students for a  selective  number of  Instructors.  **Registrar’s office:**  a) Logs into the system  using  Admin-ID and  password.  b) Inputs the  desired time-  period  Course-ID  c) View  statistically  analyzed  GPA trend of  students for a  selective  number of  Instructors  **Faculty:**  a) Logs into the system  using  Faculty-ID  and  password.  b) Inputs the  desired time -  period &  Course-ID  c)View  statistically  analyzed  GPA trend of  students for a  selective  number of  Instructors.  **Higher Authority:**  a) Logs into  the System  using User-ID  and  password.  b) Inputs the  desired time-  period  Course-ID  c) View  statistically  analyzed  GPA trend of  students for a  selective  number of  Instructors. |  |  | **SPMS2.0**  a) a) The software will produce a performance trend for a specified instructor. | **SPMS2.0**  **Database**  a) Here, the performance will be stored and updated. | **Internet**  a) To login into and access the SPM it is used. |
| VC-wise, dean-wise, or department head-wise student performance | **Department Head:**  a) Logs into the system  using User-ID  and  password.  b) Select  Input from  from  VC/Dean/Department  Head  c) View the  student  performance  trend as per  choice.  **Registrar’s office:**  a) Logs into the system using User-ID  and  password.  b) Select  Input from  from  VC/Dean/Department  Head  c) View the  student  performance  trend as per  choice.  **Dean or VC**  a) Logs into  the system  using User-ID  and  password.  b) Select  Input from  from  VC/Dean/Department  Head  c) View the  student  performance  trend as per  choice. |  |  | **SPMS2.0**  a) The software will produce a performance trend | **SPMS2.0**  **Database**  a) Here, the performance will be stored. | **Internet**  a) To login into and access the SPM it is used. |
| Instructor-wise student performance based on the GPA of the students | **Department Head:**  a) Logs into the system  using  Department-I  D and  Password. b) Inputs a  particular  instructor  Name/ID  c)View the  student  performance  trend of  selected  Instructor.  **Registrar’s office:**  a) Logs into the system  using User-ID  and  password.  b) Inputs a  particular  instructor  c) View the  student  performance  trend of  selected  Instructor.  **Faculty:**  a) Logs into the system  using User-ID and  password.  b) Input their  Name/ID.  c) View the  student  performance  trend.  **Dean**  a) Logs into  the system  using User-ID  and  password.  b) Inputs a  particular  instructor  c)View the  student  performance  trend of  selected  instructor  **VC**  a) Logs into  the system  using User-ID  and  password.  b) Inputs a  particular  instructor  c)View the  student  performance  trend of  selected  instructor. |  |  | **SPMS2.0**  a) The software will produce a performance trend | **SPMS2.0**  **Database**  a) The  performance  will be stored  and updated  in the  database. | **Internet**  a) To login into and access the SPM it is used. |
| Total PLO percentage achieved and attempted by the student along with the departmental average | **Student:**  a) Logs into the system  using Student-ID and  Password  b) Inputs the  time- period  c)Views their  comparison  of attempted  vs achieved PLO  percentage  along with  the  departmental  Average.  **Department Head:**  a) Logs into the system  using User-ID and  Password  b) Inputs the time- period  c) Views the comparison of students  attempted  PLO vs  achieved  PLO  percentage  along with  the  departmental  average.  **Registrar’s office:**  a) Logs into the system  using User-ID and  Password  b) Inputs the time- period  c) Views the  comparison  of students  Attempted PLO vs  achieved  PLO  percentage  along with  the  departmental  average.  **Faculty:**  a) Logs into the system  using User-ID and  Password.  b) Inputs the  time period.  c) Views the  comparison of students  attempted  PLO vs  achieved  PLO  percentage  along with  the  departmental  Average.  **Dean**  a) Logs into  the system  using User  ID and  Password  b) Inputs the time period  c) Views the  comparison of students  Attempted PLO vs  achieved  PLO  percentage  along with  the  departmental  average.  **VC**  a) Logs into the system  using User-ID and  Password.  b) Inputs the time- period.  c) Views the  comparison of students  attempted  PLO vs  achieved  PLO  percentage  along with  the  departmental  average. |  |  | **Operating**  **system**  a) Used by  the  SPMS2.0  **SPMS2.0**  a)A comparison of the attempted vs. achieved PLO as well as the departmental average will be produced by the software. | **SPMS2.0**  **Database**  a) Here, the performance will be stored. | **Internet**  a) To login into and access the SPM it is used. |
| PLO achievement | **Student:**  a) Logs into the system  using  Student-ID  and  password. b) Selects  PLO  achievement  c) View PLO  Achievement.  **Department Head:**  a) Logs into the System  using user-ID  and  password.  b) Selects  PLO  achievement  c) View PLO  Achievement.  **Registrar’s office:**  a) Logs into the system  using user-ID and  password.  b) Selects  PLO  achievement.  c) View PLO  Achievement.  **Faculty:**  a) Logs into  the System  using  Faculty-ID and  password.  b) Selects  PLO  Achievement.  c) View PLO  Achievement.  **Dean**  a) Logs into  the System  using user-ID and  password.  b) Selects  PLO  achievement.  c) View PLO  Achievement.  **VC**  a) Logs into the system  using user-ID  and  password.  b) Selects  PLO  achievement.  c) View PLO  achievement |  |  | **SPMS2.0**  a) A PLO achievement will be generated by the software. | **SPMS2.0**  **Database**  a) Here, the performance will be stored and updated. | **Internet**  a) To login into and access the SPM it is used. |
| Expected PLO-achievement versus actual score (for course's, student’s,  Department’s, program’s or school’s) | **Student:**  a) Logs into the system  using  Student-ID  and  password.  b) Selects  PLO  achievement  comparison  c) View PLO  achievement  Comparison.  **Department Head:**  a) Logs into the system  using user-ID  and  password.  b) Selects  PLO  achievement  comparison  c) View PLO  achievement  Comparison.  **Registrar’s office:**  a) Logs into  the system  using user-ID and  password.  b) Selects  PLO  achievement  comparison.  c) View PLO  achievement  comparison.  **Faculty:**  a) Logs into the System  using  Faculty-ID and  password.  b) Selects  PLO  achievement  comparison.  c) view PLO  Achievement comparison.  **Dean**  a) Logs into the system  using user-ID  and  password.  b) Selects  PLO  achievement  comparison.  c) View PLO  achievement  Comparison.  **VC**  a) Logs into the system  using user-ID  and  password.  b) Selects  PLO  achievement  comparison  c) View PLO  achievement  Comparison. |  |  | **SPMS2.0**  a) A) The software will calculate the expected vs. achieved PLO. | **SPMS2.0**  **Database**  a) The  performance  will be stored  and updated  in the  database. | **Internet**  a) To login into and access the SPM it is used. |
| CO-PLO achievement summary | **Student:**  a) Logs into the system  using  Student-ID  and  password.  b) Selects  CO -PLO  achievement  summary.  c) View CO- PLO achievement summary.  **Department Head:**  a) Logs into the system  using user-ID  and  password.  b) Selects  CO -PLO  achievement  summary.  c) View CO  - PLO  achievement  Summary.  **Registrar’s office:**  a) Logs into the system  using user-ID  and  password.  b) Selects  CO -PLO  achievement  summary.  c) View CO  -PLO  achievement  Summary.  **Faculty:**  a) Logs into the system  using  Faculty-ID and  password.  b) Selects CO  -PLO  achievement  summary.  c) View CO  - PLO  achievement  Summary.  **Dean**  a) Logs into the system  using user-ID  and  password.  b) Selects  CO -PLO  achievement  summary.  c) View CO  - PLO  achievement  Summary.  **VC**  a) Logs into the system  using user-ID  and  password.  b) Selects  CO  -PLO  achievement  summary  .  c) view CO  - PLO  achievement  summary. |  |  | **SPMS2.0**  a)The software will produce a summary of CO-PLO accomplishments. | **SPMS2.0**  **Database**  a) The  Summary  will be stored  and updated  in the  database. | **Internet**  a) To login into and access the SPM it is used. |