**UNIVERSITY MANAGEMENT SYSTEM**

**GROUP MEMBER DETAILS:**

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**PROBLEM STATEMENT**

UNIVERSITY MANAGEMENT SYSTEM (UMS) is a software that deals with the maintenance of university, faculty, student information within the university. UMS is an automation system, used to store the faculty, student, courses, and information of an institute. Starting from registration of a new student in the university, it maintains all the details regarding the attendance and marks of the students. The project deals with retrieval of information through an INTRANET based campus wide portal. It collects related information from all the departments of an organization and maintains files, which are used to generate reports in various forms to measure individual and overall performance of the students.

In this project, we are only targeting the development of faculty section of University Management System (UMS).

Now, development process of the system starts with System analysis. System analysis involves creating a formal model of the problem to be solved by understanding requirements. The Functionalities of the system dealing with faculty section are mentioned below.

**FUNCTIONALITIES**

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| **No.** | **Functionality** | **Sub-Functionality** |
| 1 | Course Material | * Course Packs, books, handouts etc. |
| 2 | Announcement | * Notice. * Upcoming Event. * Add Announcement. |
| 3 | Student Attendance | * Attendance Report. * Previous Attendance. * Class Attendance. |
| 4 | Faculty Attendance | * Attendance Report. * Check in time and date. * Checkout time and date. * Leaves. |
| 5 | Course Management | * Academic Calendars * class activities, * Web Resources * Assign grade points |
| 6 | Faculty’s Timetable | * Timetable. |
| 7 | Faculty’s Profile | * Faculty Details. * Experience. * Publications. * Qualification. |
| 8 | Assessment | * Quiz. * Assignment. * Project. * Mid-Term. * Final Term. |
| 9 | Faculty Self Evaluation | * Research & Scholarships. * Teaching. * Committee’s and other activities. |
| 10 | Faculty Rating | * Rating of Faculty by students out of 5 Stars. |

**USER STORIES**

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| Story ID | As | Wants to | So that they can |
| UT-01 | Faculty | update the course packs. | upload the latest deliverable content, books, and handouts for the students of their enrolled classes. |
| UT-02 | Faculty | upload assignment. | set the deadlines, grade assignments, check which student uploaded the assignment late and which did not upload.  Also grade the assignments |
| UT-03 | Faculty | view the attendance report of all their courses. | check which student is having short attendance issues. |
| UT-04 | Faculty | access the previous attendance of students. | make corrections if needed. |
| UT-05 | Faculty | add new attendance of each lecture to their corresponding courses. | maintain/add attendance of the physically present students |
| UT-06 | Faculty | add announcements | notify the students about quizzes and projects. |
| UT-07 | Faculty | view upcoming events | get information about the conferences, seminars, and events to be organized at the university. |
| UT-08 | Faculty | view notices | to get information about instructions from higher management. |
| UT-09 | Faculty | view their attendance. | check their monthly attendance report, check-in, checkout time and leaves status. |
| UT-10 | Faculty | course Management section | view class activities, academic calendars |
| UT-11 | Faculty | access grade points section | assign weightages to quiz, assignments, midterm, final term, and projects etc. |
| UT-12 | Faculty | view their timetable | they can keep a check on their daily schedule. |
| UT-13 | Faculty | view their details | make the allowed corrections or upgradations. Moreover, they will get an idea to contact the respected department for further action. |
| UT-14 | Faculty | view the publications section | make the allowed corrections or upgradations. Moreover, they will get a hint to contact the respected department for further action. |
| UT-15 | Faculty | view their overall rating | assess their teaching methodologies and bring improvements. |
| UT-16 | Faculty | view scholarships | apply for the scholarships of their interests |
| UT-17 | Faculty | view the activities of committees | participate according to their interest. |
| UT-18 | Faculty | to provide the record of thesis supervisions | the higher management can easily view the status |
| UT-19 | Faculty | access the quiz section | upload the quiz problems and then update/upload their marks according to the student performance. |
| UT-20 | Faculty | access the projects section | upload the project statements, their deadlines and then update/upload their marks according to the student performance. |
| UT-21 | Faculty | access the mid-term section | upload the marks according to the student performance. |
| UT-22 | Faculty | access the Final-term section | upload the marks according to the student performance. |

**REQUIREMENT TRACEABILITY MATRIX**

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| **Requirement Number** | | **Requirements** | **Use Case** | | **Object/Program Name** | | **GUI – Graphical User Interface / Screen Name** | | **Test Case ID** | | **Regression Test Case ID** | |
| REQ 1 | Ability to access the course material section. | | | UT-01 | | Login.html  Dashboard.html  Course Material.html | |  | |  | |  |
| REQ 2 | Ability to access the announcement section. | | | UT-06  UT-07  UT-08 | |  | |  | |  | |  |
| REQ 3 | Ability to access the student attendance section. | | | UT-03  UT-04  UT-05 | |  | |  | |  | |  |
| REQ 4 | Ability to access the faculty attendance section. | | | UT-09 | |  | |  | |  | |  |
| REQ 5 | Ability to access the course management section. | | | UT-10  UT-11 | | Course Management.html  Login.html  Dashboard.html | |  | |  | |  |
| REQ 6 | Ability to access the faculty timetable section. | | | UT-12 | |  | |  | |  | |  |
| REQ 7 | Ability to access the faculty profile section. | | | UT-13  UT-14 | | Faculty Profile.html  Login.html  Dashboard.html | |  | |  | |  |
| REQ 8 | Ability to access the assessment section. | | | UT-02  UT-19  UT-20  UT-21  UT-22 | | Assessments.html  Assignments.html  Quizzes.html  Mid-Term.html  Projects.html  Final.html  Login.html  Dashboard.html | |  | |  | |  |
| REQ 9 | Ability to access the faculty self-evaluation section. | | | UT-16  UT-17  UT-18 | |  | |  | |  | |  |
| REQ 10 | Ability to access the faculty rating section. | | | UT-15 | |  | |  | |  | |  |

**STAKEHOLDERS**

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| **Sr.** | **Primary** |
| 1 | Project Manager |
| 2 | Business Analyst |
| 3 | Developers |
| 4 | Quality Assurance Engineers |
| 5 | UI Designers |
| 6 | UX Designers |
| 7 | INTRANET |

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| **Sr.** | **Secondary** |
| 1 | End Users |
| 2 | Media (TV, Newspaper) |
| 3 | Other Universities (Competitors) |
| 4 | Other IT (MIS) Specialists |
| 5 | ISPS |
| 6 | HEC |
| 7 | Government |
| /8 | Banks |