

Project Design Phase-II

Solution Requirements

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|---------------|---|
| Date | |
| Team ID | NM2025TMID05570 |
| Project name | Educational Organization using ServiceNow |
| Maximum Marks | 4 Marks |

Functional Requirements:

The following are the functional requirements of the proposed solution.

| FR No. | Functional Requirement | Description |
|--------|---------------------------|--|
| FR1 | User Authentication | The system must allow students, teachers, and admins to log in securely using unique credentials |
| FR2 | Student Registration | Students can register for courses and submit their details online. |
| FR3 | Fee Management | The system should enable fee payment tracking and receipt generation. |
| FR4 | Attendance Management | Teachers should be able to mark and update attendance. |
| FR5 | Performance Tracking | The system should record and analyze student marks and grades. |
| FR6 | Notifications and Alerts | Automated email/SMS alerts for deadlines, exams, and announcements. |
| FR7 | Report Generation | Generate academic performance and attendance reports for each student. |
| FR8 | Role-Based Access Control | Different user roles (Admin, Teacher, Student) must have distinct privileges. |
| FR9 | Dashboard Visualization | Display analytics and summaries (e.g., attendance %, academic progress) on dashboards. |
| FR10 | Data Backup & Restore | System must support data backup and easy recovery in case of failure. |

Non-Functional Requirements:

The following are the non-functional requirements of the proposed solution.

| NFR No. | Non-Functional Requirement | Description |
|---------|----------------------------|---|
| NFR1 | Performance | The system should respond to user requests within 2 seconds under normal load. |
| NFR2 | Scalability | It should handle increasing users and data without performance loss. |
| NFR3 | Security | All user data must be encrypted; use role-based access for sensitive information. |
| NFR4 | Reliability | Ensure 99% uptime and consistent service availability. |
| NFR5 | Usability | The interface should be intuitive and easy to use for students and faculty. |
| NFR6 | Maintainability | The system should allow easy updates and maintenance through ServiceNow platform tools. |
| NFR7 | Portability | The application should be accessible on browsers and mobile devices. |
| NFR8 | Data Integrity | Prevent unauthorized modification or deletion of records. |
| NFR9 | Compliance | Must comply with institutional and educational data standards (like FERPA). |
| NFR10 | Backup & Recovery | Automatic data backup daily and quick recovery in case of system failure. |