Requirement specification

Functional Requirement

Functional requirements (FRs) provide an explanation of the tasks or functions that a system or software application should perform. In essence they outline the characteristics, behaviors and connections that the system needs to demonstrate in order to fulfill the requirements and meet the desires of its users or stakeholders.

Functional requirements are mandatory for the any system. For this system functional requirements are mentioned below.

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| FR-01 | Registration |
| Description | Users must have the ability to register for the system by providing their name, email, and password. |
| Stakeholders | All users (Learners, Instructors, admins) |
| Priority | High |

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| FR-02 | Login |
| Description | Registered users should be able to log in securely using their username and password. |
| Stakeholders | All users (Learners, Instructors, admins) |
| Priority | High |

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| FR-03 | Course Management |
| Description | Only an admin able to create new courses by providing a course title, description, and other relevant information. And also can edit existing courses, and delete courses from the system. |
| Stakeholders | Admin |
| Priority | High |

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| FR-04 | Course Enrollment |
| Description | Students are able to browse available courses and enroll in them. |
| Stakeholders | Learners |
| Priority | High |

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| FR-05 | Payment Processing |
| Description | The system supports payment processing for course fees. |
| Stakeholders | Learners |
| Priority | High |

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| FR-06 | Blog Post Creation and Mange |
| Description | Teachers should have full control over their blog posts, including the ability to create new blogs, edit the content and title of their existing blogs, and delete any of their posted blogs. |
| Stakeholders | Instructors |
| Priority | High |

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| FR-07 | Blog Post Reading |
| Description | All users should be able to read blog posts created by teachers. |
| Stakeholders | All users (students, teachers, admins) |
| Priority | High |

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| FR-08 | Provide Course Feedback |
| Description | Students should have the capability to provide feedback on courses in which they are enrolled. |
| Stakeholders | Learners |
| Priority | Medium |

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| FR-09 | Course Feedback Viewing |
| Description | all users should be able to view and access feedback provided by learners for a particular course. |
| Ac Stakeholders tor | All users (Learners, Instructors, admins) |
| Priority | Medium |

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| FR-10 | Course Material Management |
| Description | Instructor should have the capability to add course materials to their courses. Additionally, teachers should be able to edit and delete the course materials they have created. |
| Stakeholders | Instructors |
| Priority | High |

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| FR-11 | Course Material Viewing |
| Description | Learners should be able to view the course materials for courses in which they are enrolled. |
| Stakeholders | Learners |
| Priority | High |

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| FR-12 | User Role Management |
| Description | When a new user completes registration for the system, their default role should be set as "Learner." Admins should have the authority to update user roles, changing them from "Learner" to "Instructor" as needed. |
| Stakeholders | Admin |
| Priority | Medium |

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| FR-13 | User Removal |
| Description | Admins should have the authority to remove any user from the system as needed. This action permanently deletes the user's account and associated data from the system. |
| Stakeholders | Admin |
| Priority | High |

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| FR-14 | User Profile Editing |
| Description | Users should be able to edit their profiles and update personal information, including email and password. |
| Stakeholders | All users (Learners, Instructors, admins) |
| Priority | Medium |

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| FR-15 | User Logout |
| Description | Users, including students, teachers, and admins, should have the ability to log out securely from the system. |
| Stakeholders | All users (Learners, Instructors, admins) |
| Priority | Medium |