**PROJECT NAME:** Lecture-based University Preparation Application (LUPA)

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| REQ. # | FUNCTIONAL REQUIREMENTS |
| 1 | In the supervised machine learning model obtained by collecting student data, the Long-Short Term Memory algorithm will be used to ensure that student information spread over time affects and feeds the model fairly. |
| 2 | Provide comprehensive information about courses, including content, evaluation criteria, and instructor feedback. |
| 3 | Enable students to access course reviews and ratings to make informed decisions. |
| 4 | Offer academic advising services to newly enrolled students during the course selection process. |
| 5 | There should be different user roles (student, advisor, administrator) and except administrator user can be student and advisor at the same time (Freshmen cannot be advisor). |
| 6 | The system must verify the users’ roles. |
| 7 | The system should recommend a personalized roadmap of reading materials and online articles with varying difficulty levels. |
| 8 | Develop a system where students can input their interests and self-development areas and provide personalized elective course recommendations based on student inputs. |
| 9 | Implement a Q&A platform where students can ask questions and receive guidance from seniors. |
| 10 | Users will be able to access the most visited questions that have been previously asked and rated by other users and will be able to filter them for their own interest. |
| REQ. # | **NON-FUNCTIONAL REQUIREMENTS** |
| 1 | Questions and answers to the Question Answer tab will be checked by admins to prevent users from being affected by unethical comments. |
| 2 | Two-factor protected login page and performing bot verification for users accessing the application through the CAPTCHA system |
| 3 | According to the inputs given, the statistical course success distribution information message to be given to the students will be delivered to the user in less than 5 seconds. |
| 4 | Ensure data privacy users information must be invisible to the administrators. |
| 5 | The application must be able to handle a growing number of users and courses over time. |
| 6 | The user interface must be built in a way that is easy to navigate and understand. |
| 7 | The system must be able to synchronize the application with student account given by the universities, preventing the difficulty of manually providing their information. |
| 8 | The system must support multiple languages and regional preferences to cater to a diverse user base and allow users to customize language settings and localization preferences based on their preferences. |
| 9 | The application should be available to users 24/7 with minimal downtime. |
| 10 | The system must be compatible with the different devices and web browsers. |