**Functional Requirements**

1. **Upload study materials to generate quizzes**
   * As a **Student/Learner**, I want to upload study materials to Quizzly so that I can generate quizzes to help me prepare for exams.
   * **Priority:** High
2. **Select specific pages, topics, or chapters**
   * As a **Student**, I want to select specific pages, topics, or chapters so I can focus on specific areas of learning.
   * **Priority:** Low
3. **Access immediate feedback with references**
   * As a **Student**, I want to access immediate feedback with references to relevant topics so I can review the necessary material.
   * **Priority:** High
4. **Navigate through quiz questions easily**
   * As a **Student**, I want to easily navigate through quiz questions so I can review and change my answers.
   * **Priority:** High
5. **Access exam mode that hides answers until the end**
   * As a **Student**, I want to access exam mode that hides answers until the end so I can simulate a real exam experience.
   * **Priority:** High
6. **See the difficulty level of each question**
   * As a **Student**, I want to see the difficulty level of each question so I can gauge my understanding of different levels.
   * **Priority:** Low
7. **Easy interface navigation**
   * As a **Student**, I want to easily navigate through the interface so I can quickly generate quizzes without hassle.
   * **Priority:** High
8. **Save and review previous quizzes and materials**
   * As a **Student**, I want to save and review previous quizzes and materials so I can track my progress.
   * **Priority:** Medium
9. **Get explanations and references**
   * As a **Student**, I want to receive explanations and references so I can learn more about the topic.
   * **Priority:** Low
10. **Explore related topics from uploaded documents**
    * As a **Student/Learner**, I want to get related topics based on the uploaded documents so I can explore new areas of learning.
    * **Priority:** Low
11. **Customize quiz questions generated**
    * As a **Teacher/Educator**, I want to customize quiz questions so I can create more efficient assessments tailored to my students.
    * **Priority:** Low
12. **Upload curriculum materials to generate quizzes**
    * As a **Teacher/Educator**, I want to upload curriculum material to generate quizzes so I can create assignments for students.
    * **Priority:** High
13. **Generate quiz questions of varying difficulty**
    * As a **Teacher/Educator**, I want to generate quiz questions that cover various difficulty levels to assess students with different levels of understanding.
    * **Priority:** Low
14. **Receive summary quiz results from students**
    * As a **Teacher/Educator**, I want to receive summary quiz results from students so I can focus on areas where they are struggling.
    * **Priority:** Low
15. **See the progress of text extraction**
    * As a **Teacher/Educator**, I want to see the progress of text extraction so I will know when the process is completed.
    * **Priority:** High
16. **Pause and resume quizzes**
    * As a **Teacher/Educator**, I want to pause and resume quizzes so I can manage time effectively.
    * **Priority:** Low
17. **Detailed feedback for each question**
    * As a **Teacher/Educator**, I want to receive detailed feedback for each question so I can understand student performance.
    * **Priority:** Low
18. **Reference specific topics in quiz feedback**
    * As a **Teacher/Educator**, I want to reference specific topics from the document in the quiz feedback so students know where to study.
    * **Priority:** High
19. **Set time limits for exam mode**
    * As a **Teacher/Educator**, I want to set time limits for exam mode quizzes so students can practice time management.
    * **Priority:** High
20. **Validate the file formats**
    * As a **Developer**, I want to validate the file formats so that only supported files are processed.
    * **Priority:** High
21. **Ensure text extraction accuracy**
    * As a **Developer**, I want to ensure text extraction is accurate so the generated questions are relevant and useful.
    * **Priority:** High
22. **Generate quizzes quickly**
    * As a **Developer**, I want to ensure quizzes are generated quickly so users don’t experience delays.
    * **Priority:** High
23. **Ensure intuitive interface**
    * As a **Developer**, I want the interface to be intuitive so users can interact without any confusion.
    * **Priority:** High
24. **Ensure quiz results accuracy**
    * As a **Developer**, I want to ensure quiz results are accurate so users trust the system’s assessments.
    * **Priority:** High
25. **Precise reference linking**
    * As a **Developer**, I want the reference linking to be precise so users can quickly find relevant content.
    * **Priority:** Low
26. **Ensure glitch-free exam mode**
    * As a **Developer**, I want to ensure there are no glitches when using exam mode so it provides a smooth experience.
    * **Priority:** High
27. **Support multiple document formats for text extraction**
    * As a **Developer**, I want to implement a robust text extraction process that supports multiple document formats so users can generate quizzes from various materials.
    * **Priority:** High
28. **Develop real-time quiz interaction capabilities**
    * As a **Developer**, I want to develop real-time quiz interaction capabilities so users can take quizzes together and experience collaborative learning.
    * **Priority:** High
29. **Implement secure data handling**
    * As a **Developer**, I want to ensure secure data handling, so documents and quizzes are managed securely.
    * **Priority:** High

**Non-Functional Requirements**

1. **System Performance:**
   * Quizzes must be generated quickly without significant delay (High).
   * Text extraction must be accurate to ensure relevant questions (High).
2. **User Experience:**
   * The interface should be intuitive and easy to navigate for both students and teachers (High).
   * Exam mode should provide a smooth, glitch-free experience (High).
3. **Security:**
   * The system must ensure secure data handling, protecting uploaded documents and quizzes (High).
4. **Reliability:**
   * Quiz results should be accurate to build trust in assessments (High).
5. **Scalability:**
   * The system should support multiple document formats for robust text extraction (High).
6. **Availability:**
   * The platform must be available to multiple users for real-time quiz interaction (High).