

Technical Requirement Document

1. Display all questions

- Render all quiz questions with options at once.
- Each question shows multiple choices (radio buttons).

2. One answer per question

- Radio button grouping ensures only one answer can be selected.

3. Submit button (score + pass/fail)

- On submit, system calculates score and shows pass/fail message.
- Passing threshold = 70%.
- Disable further input after submission.

4. Reset button

- Clears all answers (UI + storage).
- Quiz restarts in fresh state.

5. Restore answers on refresh

- If quiz not submitted, saved answers reload automatically.

6. New attempt after finishing

- After submission, refresh starts a new quiz (no saved answers).

7. OOP usage

- Encapsulation: quiz logic and storage separated.

- Inheritance/Abstraction: base storage class with different implementations.
- Polymorphism: same interface for storage types.