# Quiz App Component Design

## 1. App

• Responsibility:

- Initialize and provide quiz data

- Coordinate display between Quiz and final Results

• State/Context:

- quizData (array/object)

- isFinished (boolean)

## 2. Quiz

• Responsibility:

- Display current question, progress bar, and confirm actions

- Manage question index and user answers

• Props:

- quizData

- onFinish (callback when quiz ends)

• State:

- activeQuestionIndex (number)

- userAnswers (array)

- showModal (boolean)

## 3. Question

• Responsibility:

- Render question content and answer options

- Manage temporary selection before confirmation

• Props:

- question (object)

- selectedAnswer (string)

• Local State:

- tempSelection (string)

## 4. ProgressBar

• Responsibility:

- Countdown timer per question

- Display progress visually and numeric countdown

• Props:

- duration (number in ms)

- onTimeout (callback when time expires)

• State:

- remainingTime (number in ms)

## 5. ConfirmModal

• Responsibility:

- Show confirmation dialog for delete or timeout

• Props:

- isOpen (boolean)

- onConfirm (callback)

- onCancel (callback)

• No internal state; driven by props

## 6. Results

• Responsibility:

- Display final quiz results based on userAnswers

• Props:

- userAnswers

- quizData

• No internal state; static display