Diagram 3: Assessment Module

This diagram shows the skill verification system through dynamic quizzes.

JobSeeker
- Id: int
- CurrentAssessmentScore: decimal
- LastAssessmentDate: DateTime

AssessmentService

- + StartAssessmentAsync(jobSeekerId)
- + SubmitAnswerAsync(attemptId, dto)
- + CompleteAssessmentAsync(attemptId)
- - CalculateScores(attempt)
- - SelectQuestions(roleFamily)

AssessmentAttempt
- Id: int
- JobSeekerId: int
- JobTitleId: int
- OverallScore: decimal
- TechnicalScore: decimal
- SoftSkillsScore: decimal
- AssessmentStatus: AssessmentStatus
- TimeLimitMinutes: int
- TotalQuestions: int
- QuestionsAnswered: int
- ScoreExpiresAt: DateTime
- IsActive: bool

AssessmentAnswer
- Id: int
- AssessmentAttemptId: int
- QuestionId: int
- SelectedAnswerIndex: int
- IsCorrect: bool

JobTitle
- Id: int
- Title: string
- RoleFamily: string

AssessmentQuestion
- Id: int
- QuestionText: string
- Category: QuestionCategory
- RoleFamily: JobTitleRoleFamily
- SkillId: int
- Difficulty: QuestionDifficulty
- SeniorityLevel: ExperienceSeniorityLevel
- Options: string
- CorrectAnswerIndex: int
- Explanation: string

Skill
- Id: int
- Name: string

Takes

Manages

Selects Qestions

Contains

for Role

Answers

Tests