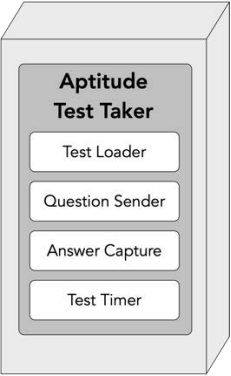


Existing Certification Testing Architecture (Test 1: Aptitude Test)



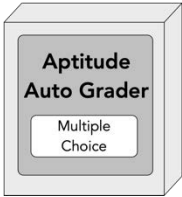
Used to register candidates for certification, and includes candidate profile information.



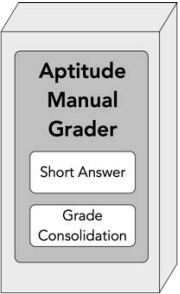
Primary service for administering aptitude tests. This service loads tests, delivers question to the user interface, captures candidate answers, and forwards these answers to the appropriate queue for processing as it receives them. Also times the test, and keeps track of where each candidate is in the certification test in the event of a restart or recovery situation.



This service receives short answers from the queue and persists them in an ungraded answer database for later grading.

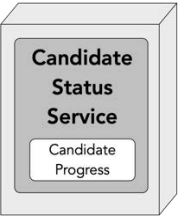


Receives multiple choice questions from a queue and automatically grades the answer based on the answer key in the test database.

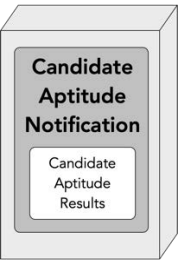


This service is used by the expert architects to retrieve ungraded short answer questions from the candidate and allows the expert to assign a grade as well as detailed feedback for each question.

This service also acts as the main orchestrator to update the candidates certification status and also notify the candidate of the results.



Maintains the overall status of the candidates progress, including if they passed test 1 (aptitude), passed test 2 (architecture solution), and during test 2 the time that has elapsed since passing test 1 and retrieving the case study. Candidates have 30 days after passing test 1 to start test 2, and 2 weeks to complete test 2.



Notifies the candidate of their grade for test 1 (aptitude test) and also includes feedback on short answer questions from the expert if the answer was incorrect.

If the candidate passed test 1, the email also includes instructions for downloading the case study and starting test 2.