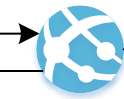External App

Request: Testcases.zip, QuestionId (Optional),
TimeLimitMultiplier (Optional)
Response: QuestionId

Judge Web API

1. Upload testcases to Blob

2. Add or update question's testcase mapping

Storage Blob – Testcases

Storage Table – Questions
Metadata

External App

Judge Web API

Request: CorrelationId
Response: Results

Fetch results using CorrelationId

Storage Table – Results

Storage Table – Request Metadata

1. Store Request Metadata in Table + CorrelationId

External App

Request: SourceCode, LanguageId, QuestionId, CallBackUrl, ResponseMode
Response: CorrelationId

Judge Web API

2. Push Request (CorrelationId) to Queue

Storage Queue – Code Submissions

Storage Queue – Code Submissions (Poison Queue)

Function Failed

A. Fetch Request Metadata using CorrelationId

Request message picked up by Function – Code Submission Processor

Request message for failed submission picked up by Function – Failed Code Submission Processor

E. Send Results to External App using CallBackUrl

Function – Code Submission Processor

B. Send Runtime Error Results to External App using CallBackUrl

A. Fetch Request Metadata using CorrelationId

Function – Failed Code Submission Processor

D. Store Results in Table

C. Fetch Testcases

B. Fetch Question Metadata

Storage Table – Results

Storage Blob – Testcases

Storage Table – Questions Metadata