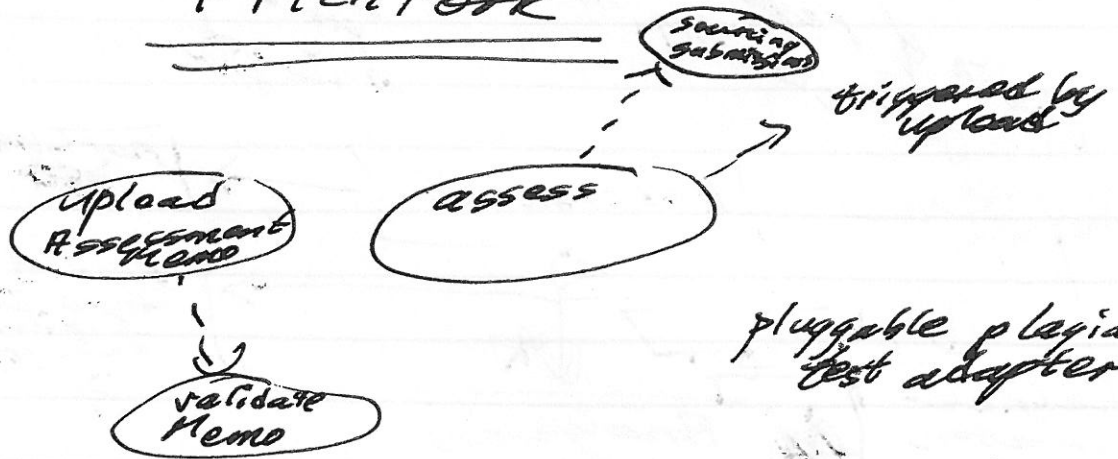


batch
real-time

Fitch Fork

immediate feedback
to student or batch

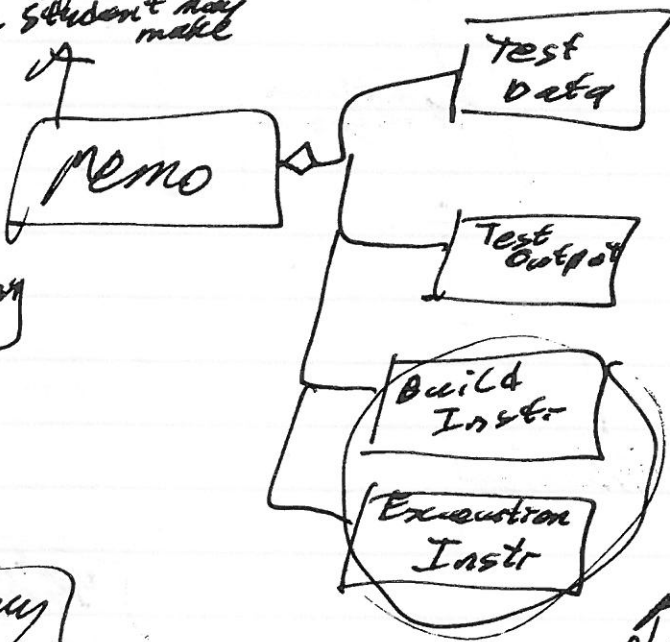


task has
multiple
test cases

pluggable plagiarism
test adapter

write test
But
need marks
info for
test pass/fail,
error type

no of submissions
a student may make



additional
eg: is recursion used
→ assessors
for output

pluggable static code analysis
with marks
decoration
eg. Stack trace analysis

pluggable
profilers

Mark accumulators

→ use regular expressions
for analyzing output
test

unit test → output analysis (yes
marks)

pluggable output cleaners
applied before



chain of responsibilities
for cleaning, mark accumulation
specifics provided
& assigned files

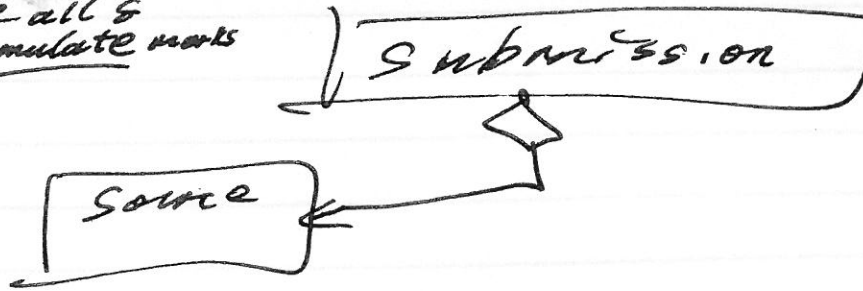
Make
file error
provided v.
assessment,
required



~~Unit testing framework must have~~
Separate compiler & execution for
each test case so that if some
functionality not implemented,
then can still compile & execute
other tests

tests:

as strict sequence → only next one
execute all & accumulate marks



To do

- git repo for project
- latex doc skeleton
- lms model
- resources?

output formats

Currently
lots of small
assessments
for each unit
test

scalability
auditability

security

scalability

→ thousands of users can
simultaneously

sandbox specs

memory limit
network y/n/s
time limit
(for compilation
& execution)
access to directories

sandboxing

create folder for student

run as student

script run as root, but it changes to
user of student when executing.

abacus runs

→ good sandboxing?

runlimit used by gitdiff to invoke make with constraint
as diff user with

look at abacus & pitch for contest assessment.

docker creates and destroys containers
too resource intensive.