Question 3: Design a job searching and posting platform.

Objects and Behaviors:

User

Data: name, email, resume

Behavior: login, create\_account, search, apply, collect

Employer

Data: job, company, email

Behavior: login, create\_account, post, invite,decline

Job

Data: description, title, salary, locaiton, isAvailable

Platform

Data: name, URL, jobPool

Behavior: check, search, sort, display

Sequence of invoking Objects with Behavior

User Tom

Employer employer

Job job

Platform platform

If (Tom.hasAccount)

Tom.login -> platform : respond

else

Tom.create\_account -> platform : respond

end

If (employer.hasAccount)

employer.login -> platform : respond

else

employee.create\_account -> platform : respond

end

if (employer.wantsToHire):

employer.post -> job, platform: check

if (employer.passCheck):

platform.addJobToPool

end

end

if (Tom.wantsJob):

Tom.search -> job, platform.searchFromJobPool

if (job.isAvaliable is true)

if Tom.wantsToCollectTheJob

Tom.collect -> platform:respond

end

If Tom.wantsToApply:

Tom.apply -> platform,employer: respond

end

If employer.wantsToInterview:

employer.invite -> Tom:respond

else

employer.decline -> Tom: receive

end

else

Tom.cantapply

end