

Problem: Design a job searching and posting platform

Identify Objects and Behaviors:

Thing (Object) / Entity:

Information (Data) / (State)

Services (Behaviors) / Actions

Things:

JobHunter:

Data: resume, name, phoneNumber, emailAddress, preferredLocation,
preferredPosition, preferredSalary

Behaviors: uploadResume, signUp, signIn, tryAgain, hasAnAccount, hasSignedIn,
findNoJob, findDesirableJob

Resume:

Data: personalInfo, education, experience, skills

Behaviors: searchJobs, postJobs, transferFiles

Platform:

Data: jobInfo, companyInfo, jobHunterInfo

Behaviors: searchJob, postJob, transferFile

Job:

Data: companyInfo, position, salary, jobDescription

Behavior:

JobPoster:

Data: companyInfo, position, salary, jobDescription

Behaviors: postNoJob, postWantedJob, tryAgain

Sequence of invoking behaviors in Objects:

JobSearching:

JobHunter luqing,

Resume resume,

Platform platform,

Job desirableJob,

JobApplying response,

if luqing.hasSignedIn

platform.searchJob -> luqing.preferredLocation, luqing.preferredPosition,
luqing.preferredSalary : preferredJob

```

searchingIndex = 0;
Loop
    if luqing.findNoJob
        break
    end
    if luqing.findDesirableJob -> companyInfo, position, salary, jobDescription: job
        desirableJob = job
        if desirableJob is not empty
            break
        else
            searchingIndex++
        end
    end
End
luqing.uploadResume -> desirableJob, resume: JobApplying
response = JobApplying
else
    if luqing.hasAnAccount
        luqing.signIn -> emailAddress, password : response
        if response.success
            luqing.hasSignedIn
        else
            luqing.tryAgain
        end
    else
        luqing.signUp -> name, phoneNumber, emailAddress, password : account
        if account.success
            luqing.hasSignedIn
        else
            luqing.tryAgain
        end
    end
end
end

```

JobPosting:

```

JobPoster Amazon,
Platform platform,
Job wantedJob,
JobPosting response,

```

```

if Amazon.postNoJob
    break
end
Amazon.postWantedJob -> companyInfo, position, salary, jobDescription: job
wantedJob = job

```

```
if platform.jobInfo -> wantedJob : response  
    break  
else  
    Amazom.tryAgain  
end
```