

Problem 3: Design a job searching and posting platform

Objects and Behaviors:

User

Data: Name, Age, Degree, DesireJob

Behavior: signUp, signIn, signOut, postJob, searchJob, wantToSearchJob, sendResume, wantToApply, wantToPostJob, wantToDeleteJob, viewResume, receiveJobApplication, acceptinterviewer, receiveApplicationResults, viewMessage, sendMessage, acceptJob, rejectJob

Website

Data: URL

Behavior: verify, search, collectInfo, sendMessage, addJob, display, deleteJob

Job

Data: Position, Salary, Description, Restriction, RecruitingNumber

Behavior: deleteOneRecruitingNumber, recruitingNumber

Sequence of Flow - Invoke Objects with Behaviors

JobSearchingAndPosting

User yue, hr

Website web

Job job1

If yue.hasAccount is True

yue.Signin->web:verify

if web.verify is True

if yue.wantToSearchJob

yue.searchJob->collection of job

yue.choice->job1

if yue.wantToApply

yue.sendResume->web:information

web.collectInfo

web. sendMessage ->hr:notification+1,Resume+1

```

        end
    end
    if hr.wantToPostJob
        hr.postJob->web:add
        web.addJob->job+1
        web.display
    end
    if hr.wantToDeleteJob
        hr.deleteJob->web:request
        web.deleteJob
        web.sendMessage->hr, yue:Notification+1
    end
    if hr.receiveJobApplication
        hr.viewResume->web:request
        web.display->Resume-1, jobApplication-1
        if hr.acceptinterviewer->web:messege
            web.sendMessege->yue:Notification+1
        end
        else
            web.sendMessege->yue:Notification+1
        end
    end
    if yue.receiveApplicationResults
        yue.viewMessage->web:request
        web.display->Notification-1
        if yue.wantToAcceptJob
            yue.acceptJob->web:request
            web.sendMessage->hr:Notification+1
            job.deleteOneRecruitingNumber
        end
    end
end

```

```
        if job.recruitingNumber is 0
            web.deleteJob
        end
    end
else
    yue.rejectJob->web:request
    web.sendMessage->hr:Notification+1
end
end
```