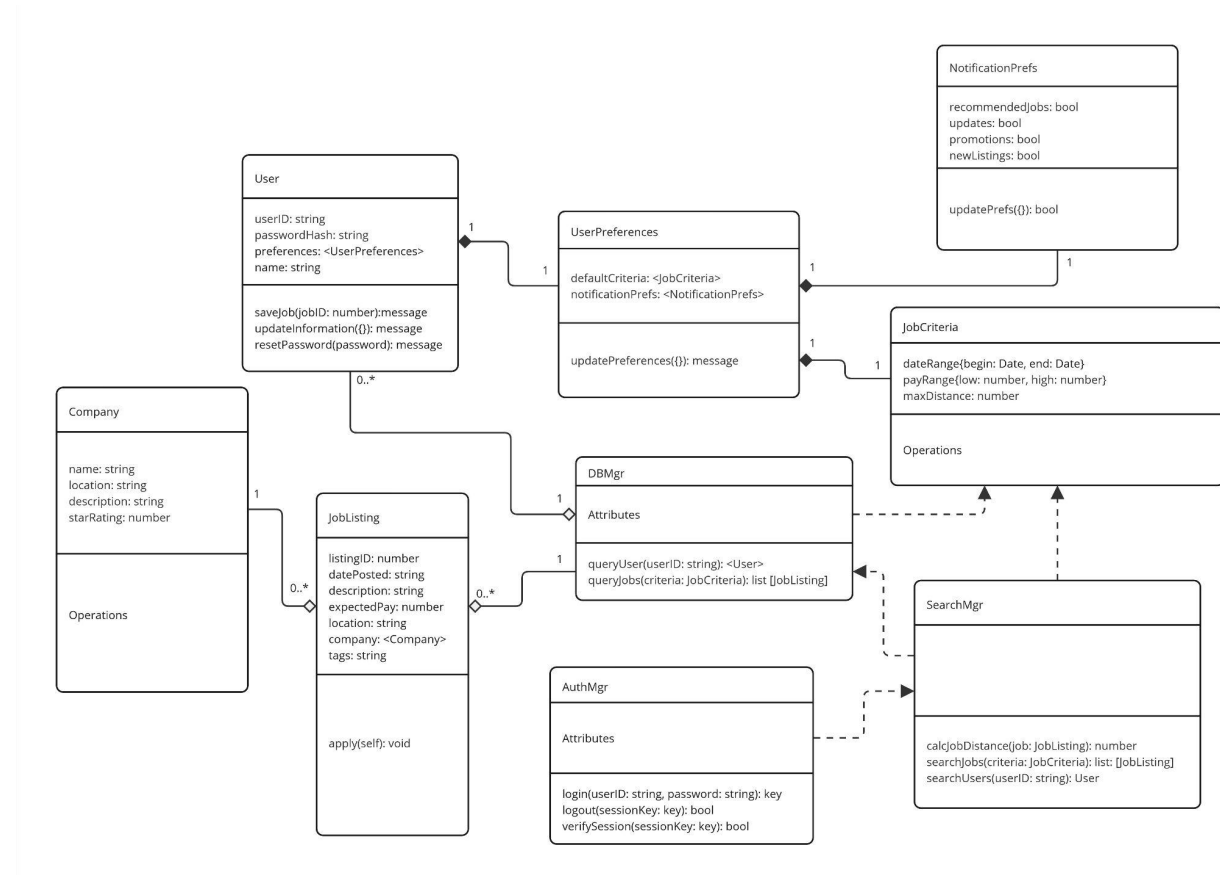# Domain Model - College Jobs

       Users are able to set user preferences which contain notification prefs and job criteria. Job criteria is returned either from the database manager directly or returned from the search manager which returns to DBMgr and then to the user. The authentication manager must also return to the search manager before the search manager can be returned to the user through the database. The database also has access to the job listings which have access to the company information to be able to return all of that to the user.



https://miro.com/app/board/uXjVNP8F92I=/?share_link_id=56319358469

Classes:
       User
              userID: string
              passwordHash: string
              preferences: <UserPreferences>
              name: string
              saveJob(jobID: number): message
              updateInformation({}): message
              resetPassword({}): message
       UserPreferences
              defaultCriteria: <JobCriteria>
              notificationPrefs: <NotificationsPrefs>

updatePreferences({}): message
NotificationPreferences
        recommendedJobs: bool
        updates: bool
        promotions: bool
        newListings: bool
        updatePrefs({}): bool
JobCriteria
        dateRange{begin: Date, end: Date}
        payRange{low: number, high: number}
        maxDistance: number

JobListing
        listingID: number
        datePosted: string
        description: string
        expectedPay: number
        location: string
        company: <Company>
        tags: string
        apply(self): void
Company
        name: string
        location: string
        description: string
        starRating: number

AuthMgr
        login(userID: string, password: string): key
        logout(sessionKey: key): bool
        verifySession(sessionKey: key): bool
SearchMgr
        calcJobDistance(job: JobListing): number
        searchJobs(criteria: JobCriteria): list: [JobListing]
        searchUsers(userID: string): User
DBMgr
        queryUser(userID: string): <User>
        queryJobs(criteria: JobCriteria): list [JobListing]