Entity Mapping

|  |  |  |
| --- | --- | --- |
| Model | Fields | Relationships |
| Application | Integer id  Double costToCompany  ApplicationStatus applicationStatus  String applicationStatusNotes  Date dateApplied  Date statusUpdated  Date dateUpdated  Date dateFinalized (can be derived) | Job  1 – to – 1  Contemplating allowing multiple applications to same job |
| Job | Integer id  String position  String company  String location  WorkModel workModel  Double postedSalary  String coreSkill  String requiredSkillsAndTools  String jobPostingUrl | Application  1 – to – 1 |
| JobApplication | Integer id  Integer jobId  Integer applicationId | Bridge Entity: Job – to – Application |

DTO Mapping

|  |  |  |
| --- | --- | --- |
| DTO | Business Function | Fields |
| JobApplication | Wrapper DTO for Job and Application models, used for most Application context client-side business logic. | All Fields from both Job and Application model entities |
| ApplicationDetails | Displays details of an application once an application is opened/clicked on. | Integer jobId Double costToCompany String applicationStatus String applicationStatusNotes Date dateApplied Date dateFinalized String company |
| JobDetails | Used when displaying in a list of all jobs (applied or unapplied) to Update/manage job | Integer Id  String position String company String location String workModel Double offeredSalary String requirements String jobPostingUrl  Boolean previouslyApplied // dep – app status  Boolean onGoingApplication // dep – app status |
| CreateJobApplication | Used to create and apply for a job in one workflow/transaction | String position  String company  String location  String workModel  Double postedSalary  String coreSkill  String requiredSkillsAndTools  String jobPostingUrl  Double costToCompany  ApplicationStatus applicationStatus  String applicationStatusNotes  Date dateApplied |
| CreateApplication | Used to create an application for a created job that has not yet been applied for | Integer jobId  Double costToCompany  String applicationStatusNotes  Date dateApplied |
| CreateJob | Used to create jobs and add to a backlog without immediately applying for it | String position  String company  String location  WorkModel workModel  Double postedSalary  String coreSkill  String requiredSkillsAndTools  String jobPostingUrl |

**Services**:

DTO Services

**JobApplication**: Wrapper DTO for Job and Application models, used for most client-side business logic

* Create new JobApplications
* Destructure JobApplications into separate models
* Sort by date created
* Sort by latest updated/added to a column
* Sort by offererdSalary
* Sort by costToCompany
* Filter by company
* Filter by position (substring search or fuzzy search)
* Filter by location
* Filter by WorkModel
* Filter by coreSkill

**ApplicationDetailsDto**: Displays details of an application once an application is opened/clicked on

* Display properties of an application
* Update and edit properties of an application
* Update applicationStatus and move application across TrackerBoard
* Delete an application if it is completed

**JobDetailsDto**: Used when displaying in a list of all jobs (applied or unapplied)

* Sort by dateCreated
* Filter by applied/notApplied
* Most likely duplicate functionality in JobApplicationDto

**CreateJobApplicationDto**: Used to create and apply for a job in one workflow/transaction

* All required fields of Job and Application models without Ids

**CreateApplicationDto**: Used to apply for a created job that has not yet been applied for

**CreateJobDto**: Used to create jobs and add to a backlog without immediately applying for it

Backend Services:

Job:

Application:

JobMapper:

ApplicationMapper:

JobApplicationMapper: