Purpose

Applicant Model

- name: A character field that stores the name of the applicant. It is a required field with a maximum length of 20 characters.

- email: An email field that stores the email address of the applicant. It is unique, meaning no two applicants can have the same email address.

- phone\_number: A character field that stores the phone number of the applicant. It has a maximum length of 15 characters.

- address: A text field that stores the address of the applicant.

ApplicantProfile Model

- applicant: A one-to-one field that links each applicant profile to a single applicant. It uses the `Applicant` model and cascades deletions, meaning if an applicant is deleted, their profile will also be deleted.

- highest\_qualification: A character field that stores the highest qualification of the applicant. It has a maximum length of 100 characters.

- stream: A character field that stores the stream or major of the applicant's highest qualification. It has a maximum length of 100 characters.

- year: A character field that stores the year of the applicant's highest qualification. It uses the `YEAR\_CHOICES` tuple for validation.

- education\_status: A character field that indicates whether the applicant has finished their education or is still pursuing it. It uses the `education\_status\_choices` tuple for validation.

- passing\_year: An integer field that stores the year the applicant passed their highest qualification. It can be null or blank, indicating that this information might not be applicable or available.

- cgpa: A decimal field that stores the cumulative grade point average (CGPA) of the applicant. It has a maximum of 4 digits and 2 decimal places.

- skills: A many-to-many field that links each applicant profile to multiple skills. It uses the `Skill` model.

- address: A text field that stores the address of the applicant.

- city: A character field that stores the city of the applicant. It has a maximum length of 100 characters.

- state: A character field that stores the state of the applicant. It has a maximum length of 100 characters.

- pincode: A character field that stores the pincode of the applicant. It has a maximum length of 6 characters.

- attachments: A generic relation field that links each applicant profile to multiple attachments. It uses the `Attachment` model.

- created\_at: A datetime field that automatically sets the creation date and time when an applicant profile is created.

- updated\_at: A datetime field that automatically updates the last modification date and time whenever an applicant profile is updated.

Skill Model

- name: A character field that stores the name of the skill. It is a required field with a maximum length of 100 characters.

Application Model

- student: A foreign key field that links each application to a single applicant. It uses the `Applicant` model and cascades deletions.

- applicant\_profile: A foreign key field that links each application to a single applicant profile. It uses the `ApplicantProfile` model and cascades deletions.

- job: A foreign key field that links each application to a single job. It uses the `Job` model and cascades deletions.

- application\_date: A datetime field that automatically sets the date and time when an application is created.

- status: A character field that indicates the status of the application. It uses the `STATUS\_CHOICES` tuple for validation and defaults to "applied".

Attachment Model

- content\_type: A foreign key field that links each attachment to a content type. It uses the `ContentType` model and cascades deletions.

- object\_id: A positive integer field that stores the ID of the object the attachment is related to.

- content\_object: A generic foreign key field that allows the attachment to be related to any object.

- attachment\_file: A file field that stores the file attached by the applicant. It uses the `attachment\_upload` function to determine the upload path.

- attachment\_type: A character field that indicates the type of the attachment. It uses the `ATTACHMENT\_TYPE` tuple for validation and can be blank or null.

- created: A datetime field that automatically sets the creation date and time when an attachment is created.

- modified: A datetime field that automatically updates the last modification date and time whenever an attachment is updated.

Organisation Model

- name: A character field that stores the name of the organisation. It is a required field with a maximum length of 100 characters.

- website: A URL field that stores the website URL of the organisation.

- logo: An image field that stores the logo of the organisation. It can be null or blank.

- contact\_details: A character field that stores the contact details of the organisation. It has a maximum length of 100 characters.

- industry\_type: A character field that stores the industry type of the organisation. It has a maximum length of 100 characters.

- location: A character field that stores the location of the organisation. It has a maximum length of 100 characters.

- created\_by: A foreign key field that links each organisation to a single user who created it. It uses the `User` model and cascades deletions.

Job Model

- title: A character field that stores the title of the job. It is a required field with a maximum length of 100 characters.

- description: A text field that stores the description of the job.

- work\_location: A character field that indicates the work location of the job. It uses the `LOCATION\_TYPE` tuple for validation and defaults to "onsite".

- job\_type: A character field that indicates the type of the job. It uses the `JOB\_TYPE` tuple for validation and defaults to "full\_time".

- eligibility\_criteria: A text field that stores the eligibility criteria for the job.

- deadline: A datetime field that stores the deadline for the job application.

- stipend\_salary: A character field that stores the stipend or salary information for the job. It can be null or blank.

- company: A foreign key field that links each job to a single organisation. It uses the `Organisation` model and cascades deletions.

- status: A character field that indicates the status of the job. It uses the `STATUS\_CHOICES` tuple for validation and defaults to "open".

- openings: A positive integer field that stores the number of job openings. It defaults to 1.

- perks\_benefits: A text field that stores information about the perks and benefits of the job. It can be null or blank.

Suggestions-

New Entities and Attributes

1. Feedback

- ApplicantFeedback: Stores feedback given to applicants after the application process.

- feedback\_text : text

- feedback\_date : datetime

- applicant : foreignkey Applicant

- job : foreignkey Job

2. Interview

- Interview: Tracks interview schedules and outcomes for applicants.

- interview\_date : datetime

- interview\_time : time

- interview\_location : varchar

- applicant : foreignkey Applicant

- job : foreignkey Job

- status : varchar (e.g., "scheduled", "completed", "cancelled")

3. SkillLevel

- SkillLevel: Categorizes skills by proficiency level (e.g., beginner, intermediate, advanced).

- level : varchar

4. Education

- Education: Stores detailed education records for applicants, including degrees, institutions, and specializations.

- degree : varchar

- institution : varchar

- specialization : varchar

- applicant : foreignkey Applicant

5. JobRequirement

- JobRequirement: Specifies the requirements for each job, such as skills, qualifications, and experience.

- requirement\_text : text

- job : foreignkey Job

6. ApplicationStatus

- ApplicationStatus: Tracks the status of applications at various stages, providing a more detailed view of the application process.

- status\_text : varchar

- application : foreignkey Application

- status\_date : datetime

Modified Relationships

- ApplicantProfile to SkillLevel: One-to-Many (An applicant profile can have multiple skill levels)

- ApplicantProfile to Education: One-to-Many (An applicant profile can have multiple education records)

- Job to JobRequirement: One-to-Many (A job can have multiple requirements)

- Application to ApplicationStatus: One-to-Many (An application can have multiple status updates)