

AREA 4 : Internships , Applications & Models

This area manages the **creation, listing, filtering, and application process** for internships. It also handles how **users apply**, how **admins manage those applications**, and how status updates, resumes, and user restrictions work.

1. Core Models and Relationships

User (custom)

- └─ OneToOne → UserProfile
- └─ OneToMany → Application
- └─ OneToMany → Notification

UserProfile

- └─ OneToMany → Certificate

Internship

- └─ ManyToMany → SkillTag
- └─ ForeignKey → User (admin)
- └─ OneToMany → Application

Application

- └─ ForeignKey → User
- └─ ForeignKey → Internship



2. **User** Model (Custom Auth Model)

Field	Type	Notes
email	EmailField	Used as username for login
password	CharField	Required for email-based login

Field	Type	Notes
<code>is_admin</code>	Boolean	Superuser flag
<code>date_joined</code>	DateTime	Auto

🔗 One-to-One with `UserProfile`

3. `UserProfile` Model

Field	Type	Notes
<code>user</code>	OneToOne	Linked to <code>User</code>
<code>full_name</code>	CharField	Required
<code>dob</code>	DateField	Used to verify age > 18
<code>age</code>	Integer	Cached (optional)
<code>linkedin_url</code>	URLField	Required during signup
<code>github_url</code>	URLField	Optional
<code>resume</code>	FileField	Required to apply
<code>profile_picture</code>	ImageField	Optional
<code>address</code>	CharField	Optional
<code>bio</code>	TextField	Optional
<code>created_at</code>	DateTime	Auto
<code>updated_at</code>	DateTime	Auto

🔗 One-to-Many with `Certificate`

4. `Certificate` Model

Field	Type	Notes
<code>profile</code>	FK → <code>UserProfile</code>	Owner of certificate
<code>file</code>	FileField	PDF or image
<code>name</code>	CharField	Optional title or extracted
<code>uploaded_at</code>	DateTime	Auto timestamp

5. **Internship** Model

Field	Type	Notes
title	CharField	
description	TextField	
type	CharField	Paid / Unpaid
requirements	TextField	Skills, tools
eligibility	TextField	Criteria to apply
duration	CharField	Freeform (e.g., "6 weeks")
location	CharField	Remote / Onsite / Hybrid
start_date	DateField	
end_date	DateField	
deadline	DateField	No applications allowed after this
skills	M2M → SkillTag	Classify by tags like Python etc.
created_by	FK → User	Admin who posted
created_at	DateTime	Auto
updated_at	DateTime	Auto

6. **SkillTag** Model

Field	Type	Notes
name	CharField	Normalized (e.g., "python")
slug	SlugField	Optional

Used to tag and filter internships (autocomplete & deduplication logic)

7. **Application** Model

Field	Type	Notes
user	FK → User	Who applied
internship	FK → Internship	Target internship

Field	Type	Notes
<code>resume_snapshot</code>	FileField	Resume as it was when applied
<code>additional_info</code>	TextField	Optional cover letter or message
<code>status</code>	ChoiceField	<code>applied</code> , <code>under_review</code> , <code>offered</code> , <code>accepted</code> , etc.
<code>admin_notes</code>	TextField	Admin-only internal comments
<code>applied_at</code>	DateTime	Auto
<code>updated_at</code>	DateTime	Auto

Application Status Workflow:

applied → under_review → offered → accepted → working → completed
 ↘ declined / rejected

Business Rules:

- User can apply to many internships
- Only one can be accepted (others auto-rejected)
- If status = `working` , user cannot apply to new internships
- Rejected applications are final
- Resume update affects only future applications

8. Notification Model

Field	Type	Notes
<code>user</code>	FK → <code>User</code>	Who receives this
<code>message</code>	TextField	What the notification says
<code>related_object</code>	Generic FK	Link to internship or application
<code>is_read</code>	Boolean	True if seen
<code>created_at</code>	DateTime	Auto

9. Key Admin Behaviors

Admin View	Functionality
Internship	Create/edit internships, view inline applications
Application	Review applications, status edit, view profile inline
User	View & edit <code>UserProfile</code> , view applications inline
UserProfile	Editable with certificate inlines

10. Special Rules / Constraints

Rule/Behavior	Status / Action
Resume snapshot kept per application	✓ Yes (used only for that app)
Rejected apps cannot be reopened	✓ Locked
Only 1 internship can be accepted	✓ Logic enforced
Deadline disables application	✓ Apply disabled after deadline
Internship hides after 3 days of expiry	✓ On frontend
Cannot apply if already <code>working</code>	✓ Enforced logic
Certificates: multiple upload allowed	✓ In <code>UserProfile</code>
Profile editing: name, DOB, email locked	✓ All other fields editable