Flow

Prospects will put in email first. Then they will fill parts of the form. Once all parts have been submitted, the prospect becomes PENDING and can no longer modify their backend state. Then attorneys can list prospects and mark them. Once marked they go into REACHED_OUT state.

Assumptions

- Prospects are identified by their email
- Only notify a random attorney
- Modifications to the prospect data are done with respect to the prospect email
- Storing raw CV/Resume data in the database as text is ok (100kb file max size + I don't know how to deal with file storage in the context of this exercise)
- Email synchronously is chill (Issues: no retries/potentially long response time on submit)
- Basic auth is chill (there's only 2 authed apis so it's not worth building out scopes/oauth support)

Data Model

attorney

Key	Desc
id	primary key uuid
name	name of internal user
email	email/username of internal user
salted_hashed_password	
salt	
created_at	timestamp
updated_at	timestamp

prospect

Key	Desc

id	primary key uuid
first_name	prospect first name
last_name	prospect last name
email	email address [unique] [index]
resume_id	fk to resume
state	CREATED	PENDING	REACHED_OUT
created_at	timestamp
updated_at	timestamp

resume

Key	Desc
id	primary key uuid
resume_data	text content of resume
created_at	timestamp
updated_at	timestamp

APIs/Routes

GET /prospect/:email

Return the prospect with the corresponding email

POST /prospect/

Create route for creating a prospect

Body

Prospect required fields including resume

Response

201 created
400 if missing/invalid fields/prospect has been reached out to/prospect has submitted

PUT /prospect/first-name

Modify first name

Body

email: prospect's email
first_name: prospect's first name

Response

200
400 if missing/invalid fields/prospect has been reached out to/prospect has submitted

PUT /prospect/last-name

Modify last name

Body

email: prospect's email
last_name: prospect's first name

Response

200
400 if missing/invalid fields/prospect has been reached out to/prospect has submitted

PUT /prospect/resume

Modify route for prospect's resume text content

Body

email: prospect's email
resume: prospect's new resume content

Response

200
400 if missing/invalid fields/prospect has been reached out to/prospect has submitted

PUT /prospect/submit

Finally submit to move prospect from CREATED -> PENDING (no longer permit edits)

Email gets sent here synchronously to the candidate and a randomly selected attorney from the table

Body

email: prospect's email

Response

200
400 if missing/invalid fields/prospect has been reached out to/prospect has submitted

POST /admin/prospect/mark

Header

Use basic auth

Body

email: prospect's email

Response

200
400 if prospect has been reached out to

GET /admin/prospect/

Retrieve all prospects paginated (by default limit: 5, order: updated_at desc)

Header

Use basic auth

Response

Array of prospect objects