

## 1. Auth and session

- Auth
  - Login: username/email, password
  - Signup:
    1. Username/email
    2. Password, confirm password
    3. Opt: Name (if use email to signup), DoB, Phone number, ...
  - Logout:
- Session:
  - JWT (with Access + Refresh token) with axios interceptor:
    1. access token: save in local storage. attach with header when call api
    2. refresh token: save in cookie
  - Hash password: use bcrypt
  - cookie: use cookie-parser

## 2. Data model:

- User
  - id: string
  - username/email: string
  - password: string
  - type: enum(solver/author): string
  - option: name, phone, avatar ...
  - updatedAt, createdAt : datetime
- Task:
  - id: string
  - createdBy: ref User: id
  - solvers: ref User: [id]
  - title: string
  - desc: string
  - deadline? : datetime
  - result: string (depend if includes image or not)
  - timeSubmit: datetime
  - status: enum(waiting/started/completed/approved/rejected) string
  - updatedAt, createdAt : datetime
- Session:
  - id: string
  - userId: ref User: id
  - refreshToken: string
  - expireAt: datetime
  - updatedAt, createdAt : datetime
- Notification:
  - id: string
  - from: ref User: id
  - to: ref User: [id]
  - updatedAt, createdAt : datetime

## 3. API

router	endpoint	desc	method	req	res	middleware	error
/auth							
	/signup	create new user	POST	(all fields list above)	some user info		
	/login	login to system	POST	(all fields list above)	some user info		
	/logout	logout of system	POST		text		
	/refresh	create new access token (if refresh token alive)	POST		access		
/task							
	/	get all task	GET		all tasks	auth	
	/:id	get task by id	GET		specific task	auth	task with id not found
	/:id	create new task	POST	title desc [solvers list] deadline	task info	auth	wrong deadline solver id not found
	/:id	update task (mostly used to change status)	PUT	(all necessary fields)	task info	auth	task with id not found
	/:id	delete task	DELETE		task info	auth	task with id not found
/request							
	/send	send task to solvers	POST	[list solvers id] task id	???	auth	task not found solver id not found
	/rely/start	solver start	POST	??? task id	???	auth	task not found

		task					
	/rely/comple	solver complete task	POST	??? task id	???	auth	task not found
	/rely/approved	author accepted result					
	/rely/rejected	author rejected result					
/user							

(neu can update avatar, name, password j do)