auth

Registration

Registration is the process with which a user provides their basic details for the very first time to the platform.

To fulfill registration, we have a signup api

POST: /api/v1/signup

```
Req body: {
    email: "",
    password: "",
    username: ""
}
```

1. We store the data of the user on the db.

2. Hash the sensitive information like password

Task: Build the basic signup api

Triggers

To hash a password, we want to modify the incoming user object just before we store it in the DB.

Service
Layer

Trigger, just before user creation in db, and modify our password in this trigger
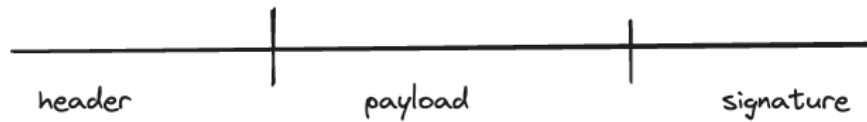
one way hash

password ----------> hashed password

Authentication

authentication is the process with which we verify if the user is the same who they claim to be.

Token based auth

→ JWT - JSON Web Token

header | payload | signature

/users/signin : POST

```
{
    email:          ← Req body
    password
}
```

1. Check if the user with the same email exists or not ?

2. Check if the password given matches the hashed password or not ?

3. Issue a JWT token to the user

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1. User sends JWT token on the platform
2. We check if the jWT is not malformed then we authenticazte the user
by fetching the payload from the JWT, which will tell us the identity of the user

3.And then on behalf of user we will do the operation.