

By Group 3

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CERN API

- Purpose: to store and access research documents on the Large-hadron collider at CERN.
- Users: CERN Researchers, Academics (students, tutors) and CERN Administrator.
- API developed using Django REST framework
 - Endpoints:
 - Authentication
 - Registration
 - Documents
 - ► GDPR
 - Microservices



Endpoint Features

Authentication	Registration	Documents
User Login: JSON Web Tokens (JWT) generated and used for authorisation on other endpoints. Token Refresh: To refresh token after 1hr elapses JWT JWT JWTs are cryptographically signed; offering a secure way for client's identity to be verified. Faster response times as no database tables are used to store tokens.	Register New User: Password validation (regex and 10k commonly used passwords) *Implementation of user roles in progress	 Create document List documents Fetch document (specific) Update document Delete document Additional Features: → Pagination → Filtering *Implementation of user privileges in progress

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Endpoint Features

Connected to an existing CERN api	
CERN api	

Assumptions

User registration goes through an approval process to ensure that roles are correctly assigned to the right people.