

Lens SDK on NEAR Protocol's bOS

Introduction to Lens Protocol

The Lens Protocol is a Web3 social graph on the Polygon Proof-of-Stake blockchain. It is designed to empower creators to own the links between themselves and their community, forming a fully composable, user-owned social graph. The protocol is built from the ground up with modularity in mind, allowing new features and fixes to be added while ensuring immutable user-owned content and social relationships.

Lens Protocol API Docs: <https://docs.lens.xyz/docs/introduction>

GraphQL Endpoints Docs: <https://api-v2-docs.lens.xyz/#introduction>

Benefits

A SDK will benefit both platforms in the following ways:

- Will allow new and experienced developers to easily integrate new Lens components and dApps in the NEAR ecosystem
- Will expand NEAR crosschain capabilities by having its own well-tested and fully functional library of a project running currently on Polygon network and more blockchains in the future
- Will create a bridge between NEAR and Lens Protocol, onboarding new users and developers in both platforms
- Will onboard new developers and increase engagement by providing the right tools they need to build dApps

Goals

- Simplify and ease developer experience
- Create a single source of code that is tested and maintained regularly
- Create a modular SDK that will help add or remove functionalities

Features

Below you can find the full set of features that should be implemented in the Lens SDK in order to be fully integrated with Lens Protocol.

- User authentication
 - Login
 - Authorization
 - List approved authentications
 - Revoke authentication
 - JWT token handling (request, verification & refreshing)
- Profile
 - Profile information
 - Profile description
 - Profile metadata
 - Profile statistics (following, followers, comments, publications...)
 - Follow / Unfollow
 - List multiple profiles

- Get recommended profiles
 - Get onchain identity
 - Modify profile metadata
 - Get allowed profile operations (follow, unfollow, isBlocked...)
 - Report profile
 - Block / Unblock profile
- Publications
 - Get publication information
 - Get publication statistics
 - Get who acted on a publication ([stated here](#))
 - Get all publications from a profile
 - Publish text publication
 - Publish image / video
 - Validate metadata
 - Refresh metadata
 - Get profile-based feed
 - Get highlights feed
 - Get and publish comments
 - Like / Unlike publications
 - Collect publications
 - Mirror publications
 - Quote publications
 - Hide / report publication
- Search
 - Profiles
 - Publications
- IPFS
 - Upload content to IPFS in order to create publications, comments...
- Metadata standards ([reference link](#))
 - Text Only
 - Image
 - Audio
 - Video
- NFTs
 - Get profile NFTs
 - Get profile NFT galleries
 - Create a NFT gallery
- Invites
 - Get invited addresses to Lens Protocol
 - Invite address to Lens Protocol
 - Check if address has been already invited
- Notifications
 - Fetch profile notifications
- Indexer
 - Check transactions status
 - Get transaction hash by relay transaction id
- API Health Check

Development plan

Lens SDK Alpha - Jan 1st - 31st

- Settle the basics of the SDK flow
- Implementation of the following features
 - User authentication
 - Login
 - Authorization
 - List approved authentications
 - Revoke authentication
 - JWT token handling (request, verification & refreshing)
 - Profile
 - Profile information
 - Profile description
 - Profile metadata
 - Profile statistics (following, followers, comments, publications...)
 - Follow / Unfollow
 - List multiple profiles
 - List followers / following
 - Get recommended profiles
 - Get onchain identity
 - Get allowed profile operations (follow, unfollow, isBlocked...)
 - Report profile
 - Block / Unblock profile
 - Publications
 - Get publication information
 - Get publication statistics
 - Get who acted on a publication ([stated here](#))
 - Get all publications from a profile
 - Get profile-based feed
 - Get highlights feed
 - Get comments
 - Upvote / Downvote publications
 - Hide / report publication
 - Search
 - Profiles
 - Publications
 - Notifications
 - Fetch profile notifications
 - Indexer
 - Check transactions status
 - Get transaction hash by relay transaction id
 - API Health Check

Lens SDK Beta - Feb 1st - 29th

- Implementation of the following features
 - IPFS

- Upload content to IPFS in order to create publications, comments...
- Metadata standards ([reference link](#))
 - Text Only
 - Image
 - Audio
 - Video
- Publications
 - Publish text publication
 - Publish image / video
 - Validate metadata
 - Refresh metadata
 - Collect publications
 - Mirror publications
 - Quote publications
- Profile
 - Modify profile metadata
- NFTs
 - Get profile NFTs
 - Get profile NFT galleries
 - Create a NFT gallery
- Invites
 - Get invited addresses to Lens Protocol
 - Invite address to Lens Protocol
 - Check if address has been already invited

The Lens SDK will be open source and will be available publicly on <https://github.com/matiasberaldo> in a repo. Contributions, comments or suggestions are welcome.

This document is not final and may be subject to modifications.