

# Using the Bookshare API

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# Why do it?

— [ Developed in 2008, provides 3rd party developers access to Bookshare functionality in any application

— [ It allows distribution of Bookshare anywhere a connection to the internet can be made to perform a defined set of functions

— Thus increases awareness and distribution

— Does not pre-determine how information is used\*

# What is it?

- [ HTTP Basic Authentication

- [ RESTful API

- URIs meaningful and mostly static and easy to share

- Parameters specified within URI path

- [ Results returned in JSON or XML (default)

# Current API functionality

— [ Anonymous users search & download public domain books

— [ Logged in individual members search & download copyright books and periodicals

— [ Logged in organizational members search & download copyright, periodicals and NIMAC books on behalf of students

— [ Logged in members can modify profile preferences

# Current API functionality

- [ Search is currently database driven (SQL) on title, author, date published and/or ISBN
- [ Download transmits an encrypted zip file containing BRF or DAISY contents
- Clients will locate and open the file (download password required for organizational members)

# Future API functionality

- [ Search enhancements:

- Implement Lucene search engine

- Improve metadata advanced searching

- [ Download simplification

- Server side download and open file maintaining DRM

# Future API functionality

- [ Extend Response Data Returned

- Supply more data in book response for filtering

- [ Internationalization Support

- [ Write back functionality:

- Analytics (Demo, Search), Feedback, Support

- Ratings/Reviews, Bookmarks



# Future API functionality

— [ Evaluate DAISY Online Delivery protocol

— [ SDK / Reference Implementation

— [ Self-service access via website

— [ Hosting API development



# Other Thoughts...

— [ Eligibility Requirements and Membership being evaluated

— [ Federated Search - Google Books

— [ Braille interface integrations

— [ Considerations around Voice Controls