DOI Minter: A Service for Flexible Generation of DataCite DOIs in Connection with a DSpace Repository

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Concept
Locating an institution’s DOI minting capacity within a specific repository software often limits the ability to quickly adapt the service to changing local needs. The availability of a stable DSpace REST API gave us the opportunity to develop a custom-built DOI minter for DataCite that can more easily grow and change with our services.

Project

![Diagram showing DOI Minter and its tasks]

The tool features:
- Inclusion of ORCID iDs in metadata transferred from DSpace to DataCite
- Flexible minting of DOIs based on DOI request field in item level metadata.
- Notification emails to users.

Next Steps:
- Mint DOIs for resources released on other KAUST websites, not only the repository.
- Increase support for information about relationships between items to be sent to DataCite.

Code in GitHub:
https://github.com/kaust-library/DoiMinter

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