XNAT (Extensible Neuroimaging Archive Toolkit) is an open-source imaging informatics platform developed by the Neuroinformatics Research Group (NRG) at the Washington University School of Medicine. It offers a comprehensive set of features designed to support the management and analysis of imaging and related data. Here are the key features and capabilities of XNAT:

* **Full DICOM Integration and Anonymization**: Ensures secure and efficient handling of image data while protecting patient health information (PHI).
* **Secure Access & Permission Control**: Provides customizable access controls to manage who can do what with the data.
* **Integrated Search & Reporting**: Allows combined reporting on image and clinical data, facilitating advanced research capabilities.
* **Pipeline Processing**: Leverages high-performance computing for data processing, enhancing the efficiency of data analysis.
* **Modular Extensibility**: Offers the flexibility to expand XNAT's capabilities to meet specific research needs.
* **Developer Community**: Access to an active community of XNAT power users and developers for support and collaboration.

XNAT is used globally by research institutions for various purposes, including institutional repositories, clinical research, multi-center studies, and data sharing. It supports a wide range of research and clinical needs, making it a versatile tool for managing complex imaging data workflows. Contributions to XNAT's documentation are shared under a Creative Commons Attribution 3.0 Unported License, encouraging community involvement and knowledge sharing.