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The new NISHA Portal

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Overview



- Why Drupal?
- The workflow
- Database and datamodel
- Why CouchDB?
- Basic portal features

Why Drupal?



- Widely used, well supported open source content management platform
- Module based
 - Numerous freely accessible modules
 - Easy to implement self-developed modules
- Easy to customize
 - Portal layout structure
 - Graphic design
- Each portal can use their own design or template
- Easy to manage multiple language sites

Workflow



■ FISHA

- The portal and the network used different publication mechanisms
- In some circumstances publishing articles from the network to the portal or pushing articles from the portal to the network was uneasy

■ NISHA

- Reconsidered, simplified workflow
- Simplified publishing mechanism

Workflow



■ NISHA

- Easy article creation
- Easier to access, publish or translate articles from the network
- Better network search
- Easier to create new translations or track the existing ones
- Easier to track relations between the articles

Database and data model



- FISHA
 - Data was stored in an relation based SQL database

- NISHA
 - The nodes are geographically separated all around Europe
 - Due to the cluster-based network architecture we reconsidered the data model
 - For cluster-based network the CouchDB seemed better choice

Database and data model



Why CouchDB?

- Each node uses its own database
- Each node produces high amount of data
- We have to distribute the data from each node to the others
- Fix data model – JSON document
- Good solution for incremental data replication
- Good fail-over data replication mechanism

Access to nodes



- Halozatbiztonsag.hu
- nisha.cert.pl
- nisha2.cert.pt
- nisha2.if-is.net
- Project website: nisha-network.eu