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*ISENSE WP4*

*4.2 Definition of SHARE  
SLANG architecture and  
taxonomy*

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## Summary

Aim.....	3
Architecture definition .....	3
Conclusions.....	6

# Aim

This is the document containing all the details related to the definition of the architecture and taxonomy of SHARE SLANG.

## Architecture definition

The main result of the WP is the implementation and test of **SHARE SLANG** (SL). SL has been conceived as a public social media repository that contains/includes

1. **documentation** /content in terms of both
  - benchmarks of digital technologies used in university environments to support/assist/communicate with deaf students and
  - legislation for the management of deaf students within higher education institutes.
2. **Gesture data** related to sign language
  - This are motion-based files acquired by using optoelectronic systems
  - they will be added in a specific section of the database. **Special hardware and software might be required.**
  - only Italian sign language.
  - data will be available for the research community involved in the analysis of sign language through artificial intelligence.(other projects)
  - For example, this data can be exploited to implement automatic movement of an avatar.
3. **Videos and other materials** that was collected during the training activity (see WP3)
4. **News Group/ Forum**
  - SL sharing repository aims to be a learning community for trainers, students, and others
  - forum will be created in the repository.
5. **Open access web** space with search function,
  - Users can find a fact sheet on available free resources.

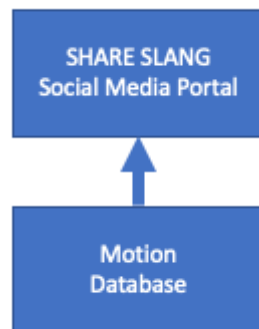
### *Requirements for the SHARE SLANG (SL) architecture*

From the above reported functionalities, SL has been realized with the following characteristics:

- SL is a user friendly Social Media Portal with attached specialised motion database.
- Scalability of portal and transferability of content
- Administration of access rights
- Provision of hearing impaired student related material/content (documentation, benchmarks, legislation)
- Material can be added in the following formats: (it) text, (ii) images, (iii) video/audio
- Newsgroups/Forums/Blogs/ Chat
- Search/ Query
- Menu with suitable sub-menu hierarchy
- Attached motion database

Technically, SL will consist of

- a regular Social Media Portal plus
- A connected Database for Motion Data



### *SHARE SLANG implementation proposals*

At the beginning four options have been considered:

1. **Option 1:** Implementation by NING – pros: Easy, flexible, low costs
2. **Option 2:** Implementation by Google Docs – cons: only documents sharing
3. **Option 3:** Implementation by Trainex – cons: expensive
4. **Option 4:** Implementation by Wordpress – cons: security

By discussing among the partners involved in the development of WP4, the first option has been selected and the social media portal has been realized by using the NING implementation.



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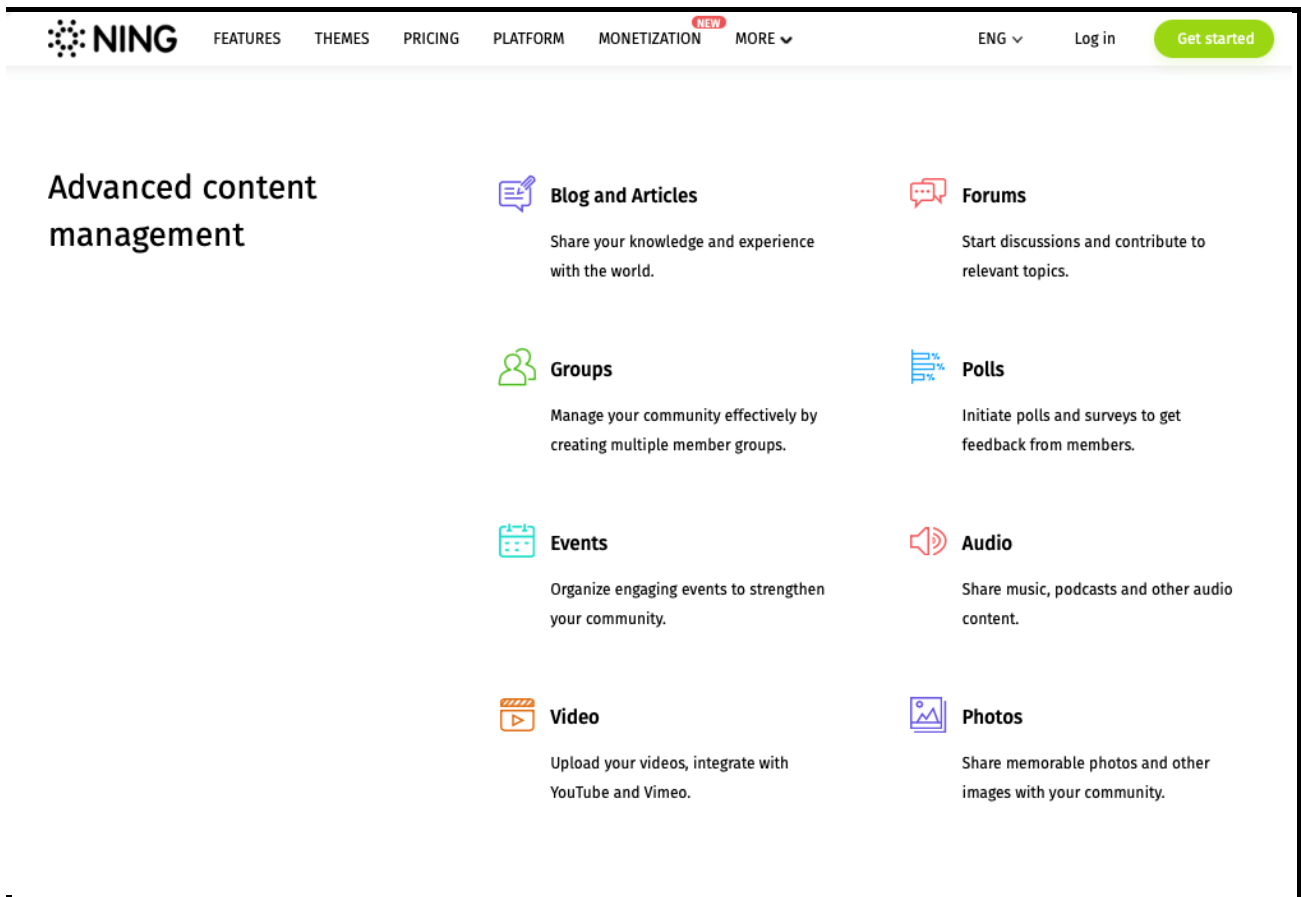
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Kaufzusammenfassung:



The social media portal has been realized and it is now available at <https://isense.ning.com/>

## Conclusions

This document discussed the functionalities of the SHARE SLANG. It is worth highlighting as the final implementation differs from the one reported in the proposal. Particularly, in the proposal SHARE SLANG was intended only as an open repository. Conversely, in order to enrich the potentialities of SHARE SLANG, we decided to implement a social media portal to create an online, open and friendly community. The social media portal is continuously in progress with additional material added.