

Functional Requirements

No.	Description	Comment
1	Authentication	
1.1	The Website features a log in and log out with email-address and Password.	necessary
1.2	Guests can register and create a new account.	necessary
1.3	New accounts should be validated by email.	optional
1.4	Use Oauth Service (RWTH, Facebook, etc) for login.	Optional
2	Lectures	
2.1	Every user can create a new lecture space, where he is the lecturer.	necessary
2.2	Every user can join a lecture out of a list of available lectures.	
2.3	The lecturer can switch the state of his lecture to published/unpublished.	necessary
2.4	The lecturer can invite other users to join his lecture (even if unpublished)	optional
2.5	For each lecture there is a Graph Of Content, that structures the content of the lecture.	necessary
2.6	The Content is either a link to some media-object (File/folder) or a HTML-Text	necessary
2.7	The HTML-Text can be edited in a WYSIWYG-Editor.	necessary
2.8	Below the displayed content users can comment and like the page.	optional
2.9	A user can leave a lecture	necessary
2.10	A lecturer can close a lecture.	necessary
2.11	Only moderators and lecturer can edit the lecture, including content	necessary
2.12	Moderators and lecturer can make editing available for users	optional
3	Media	
3.1	The lecturer has access to a dedicated media-folder for his lecture.	necessary
3.2	The lecturer can upload and manage files and folders in the according media-folder.	necessary
3.3	Every user has access to his personal media-folder.	necessary
3.4	Every user can upload and manage files and folders in his own media-folder.	necessary
4	User-Managment	

4.1	There are two global roles: user and administrator	necessary
4.2	An administrator has full access to all features and lectures.	necessary
4.3	For each lecture there are lecturer(owner), assistants(moderator) and students.	necessary
4.4	The lecturer can manage the role of participants of the lecture.	necessary
4.5	Every User has got some basic configuration possibilities. (change password, email, avatar, description)	necessary
5	Graph of Content	
5.1	The Graph of Content is displayed as a Graph.	necessary
5.2	Nodes in the Graph can either be main nodes, sub nodes or personal nodes.	necessary
5.2.1	Main nodes represent the main topics of the lecture and have no structure constraints.	necessary
5.2.2	Sub nodes have got a single parent node (main or sub node) This leads to a sub tree for each main node.	necessary
5.2.3	Personal nodes are only accessible by the user who created it. Like sub nodes they are linked to one other node. In published state the lecturer has access to it to.	necessary
5.3	Every node has got his own publishing state.	necessary
5.4	Every node has got a color/design that is depending on his content type.	necessary
5.5	The lecturer and assistants can create main and sub nodes. Every other user can just ad personal nodes.	necessary
5.6	The lecturer can arrange the nodes in 2-dimensional plane.	necessary
5.6.1	Personal nodes are arranged automatically near to their parent nodes.	necessary