Sprint Retrospective Document

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Project acronym: COW

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Sprint 5 summary:

Item ID	Workpackage ID (from the Kick-off doc)	Status	Description
14	WP3	Complete	**- Update full CMS design:** Description: Based on the feed back given in the demo, some of the design features are subject to change Problems faced: Using multiple color selection resulted in some user experience disturbance. Although the problem may seem minor but It actually contradicts directly with the main objective of having an uptodate and user friendly system. Actions taken: It has been advised to use single theme format that depended fundementaly on three colors (Red, Black, White). Solutions found: Some changes where introduced and

			modifications were made on the theme. Conclusion: Various decisions about the theme and user preferences, may cause a future problem if the system was not reviewed by as many user as possible.
9	WP2	Not started	- **Implementing course creation** Description: We have created backend services for courses however we still need to create an interface for easy course creation for instructors. We have the designs however the front-end logic still is needed to be implemented. Not started because other assigned tasks have took more than anticipated.
10	WP2	In progress	**- Editable table creation and updates:** Description: We need a generic table implementation that can have the entities sorted, filtered and edited if user has the rights to do so. Also creating key bindings and other ease of use features are desired. Problems faced: The typing system of the framework that we use allows generic type declarations, however the full picture of what needs to be done hasn't appeared until a specific implementation was made Actions taken: We have created an editable table for a sample dataset to see the exact way of design that we need to continue with. Solutions found: We have structured the configuration templates necessary for any generic type of data that we need to display to user. Conclusion: We still need to implement key bindings for moving between cells and basic exporting, however

			having created a simple yet powerful table interface we can display any editable interface that we want using our generic implementation.
12	WP2	Dropped	**- Notification service development:** Description: We need to allow users to receive notifications for any action that is carried out in the system. Reason to drop: We haven't still implemented a generic event communication logic between components, furthermore implementing notifications needs creation of templates, creating generic enough interface to export notifications to different places. Therefore, also considering other workload that we have, we have decided to drop this issue until we have a generic pub-sub mechanism and idea on how the details shall be resolved.
13	WP2	In progress	**- Creating admin view for role assignments** Description: We have created a basic authorization interface and middleware for backend entities however we still need to create an admin view for assigning some roles to users, such as adding and deleting instructor & TA roles. Problems faced: The backend interface was not fully extendable considering not having a general interface for database entity access, furthermore the database access logic had many similar repetitions in different repositories for varying entities. Actions taken: A major rewrite of the library interfaces has taken place to address this issue. Solutions found: We have exported the entity access control logic to the common library, and we have

			refactored methods of reaching user and sessions. Conclusion: We still need to implement the promotion views for users, however with the improvement in the library, the abstractions will help us generalize the access control of different users on different interfaces.
15	WP2	In progress	**- Create dependency injection strategies on CMS:** Description: We have to allow different extensions to inject dependencies in our framework. Problems faced: We had to determine and fit ways of ways to add and query injections in our library. Actions taken: We have created 2 different types of injections, hooks and strategies. Hooks are for generic script injection, that create their own front-end logic. This shall be used for components like search. Strategies are for interfaces that can realize a type of action, like creating a menu entity, grade import strategy etc. They provide an iframe interface to load their components. Solutions found: We have implemented initializers to inject hooks and strategies in library and also created services that allows hooks and services to be queried from any component. Conclusion: Now with the backend support for injections, we can add different hooks to front-end from many different components. We still have to create some default hooks and strategies for views we have on frontend.
16	WP2	Dropped	**- Create delete command for cluster** Description: We need a way to delete deployed components and/or services for the system admins.

			Dropped because: Currently we don't have a generic way to attach configurations and disks to an entity in the cluster. Thus we have realized that without knowing all types of resources and tasks that we may need to perform to delete a cluster resource, we shouldn't take this task now.
3	WP4	In Progress	**- Create a global search service for different indexable entities** Description: We decided to use Elasticsearch for our global search workpackage. This workpackage will enable one to search for indexable entities on the website. Research is done on Elastic search and basics of it are implemented. Problems faced: There are not much tutorials on Elasticsearch in terms of its usage with other programming languages. Therefore, it was first difficult to adapt to the programming part. Actions taken: Tutorials for other programming languages are searched. After having an understanding, the programming part is held. Conclusion: The beginning template of this workpackage is now ready and it will be developed by time.
17	WP5	Was not on initial plan	- **Creating event scheduling** Description: Creating interfaces, database schemas and url routes for semesterly event scheduling (with respect to room&time) as well as for collecting instructor's time preferences. Problems faced: Database design turned out harder than initially thought. Besides, library code were being reimplemented, which caused the implementation of scheduling entities harder.

			Actions taken: Since reimplementation of library code is done, there is now a clearer path to follow. Database design is planned more thoroughly and carefully. Conclusion: Basic interfaces and schemas implemented. Database logic and routing are yet to be implemented.

Sprint 6 plan

Item ID	Workpackage ID (from the Kick-off doc)	Description	Status
9	WP4	- Implementing course creation	Leftover from Sprint 5
10	WP2	- Editable table creation and updates:	Leftover from Sprint 5
13	WP2	- Creating admin view for role assignments	Leftover from Sprint 5
15	WP2	- Create dependency injection strategies on CMS:	Leftover from Sprint 5
3	WP4	- Create a global search service for different indexable entities	Leftover from Sprint 5
17	WP5	- Creating event scheduling	Leftover from Sprint 5
18	WP8	- Create grading tool backend API	New
19	WP6	- Create designs for newsgroup frontend	New

Overall progress

	Sprint 1	Sprint 2	Sprint 3	Sprint 4	Sprint 5	Sprint 6	Sprint 7	Sprint 8	Sprint 9
MF1	5%	60%	80%	85%	85%	85%			
MF2	0%	30%	50%	60%	60%	75%			
MF3	10%	35%	40%	55%	55%	60%			
MF4	0%	0%	0%	0%	0%	5%			
MF5	5%	5%	5%	5%	5%	10%			
MF6	0%	0%	0%	0%	0%	0%			
MF7	10%	10%	20%	45%	45%	55%			
MF8	0%	10%	10%	10%	10%	20%			
MF9	20%	30%	30%	40%	40%	50%			
MF10	0%	0%	0%	15%	15%	20%			
MF11	0%	10%	50%	70%	70%	70%			
MF12	0%	0%	0%	0%	0%	0%			
MF13	0%	0%	0%	0%	0%	0%			
MF14	0%	0%	0%	0%	0%	0%			