Sprint Retrospective Document

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Project acronym: COW

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Sprint 3 summary:

Item ID	Workpackage ID (from the Kick-off doc)	Status	Description
1	WP2	Complete	**- Create main actors and entities for the CMS (like students, instructors, courses):** Description: There were temporary attributes that we assigned for each entity. Those attributes are changed, and new attributes are added according to decisions made. Update endpoint is implemented. Problems faced: - update endpoint implementation was difficult because of the embedded documents that we are using.

			Actions taken: Research is done for the problem of update endpoint. Solutions found: We found a solution for it. It is about using a library called lodash. However, it has some disadvantages because it makes the project more complicated. Conclusion: - The attributes might change in the future. - A simpler solution should be found for update endpoint.
3	WP2	In progress	- **Do research and create simple user authentication and role management:** Description: Create a role-based access control (RBAC) facility for entities in the core endpoint Description: Problems faced: Oscillated between RBAC and attributes-based access control (ABAC) for a while Actions taken: Research done on mongoose facilities to make development easier Solutions found: Implement a hybrid access control mechanism which depends on both the role and attributes of the user Conclusion: Access control logic is done, should yet be tested
4	WP2	Complete	- **Create a course view with both public and private components. Description:**

			Description: I have worked on the course view for instructors and improved the student view. Problems faced: - While developing the course view for instructors there are various problems faced concerning the content and the layout. - The teacher's preferences for the course view were difficult to provide since as a student I have no idea in what seems good or bad from the teacher point of view. Actions taken: - To find the content and fix the layout of the page, I have made a research in various course management tools to get a fine idea about the layout. - With the discussion with the supervisor we have got ideas about the teachers' preferences regarding the design. Solutions found: - The teacher course view was developed according to the research and the teacher preferences. - The student course view has also been updated accordingly. Conclusion: - The student course page is functioning perfectly, and it shows the content in an elegant way. - The teacher course view is finished. It enables teachers to deliver their content to the students efficiently.
5	WP2	Complete	**- Design the CMS view with a good UX for better user adoption:** Description: For the general course management system, a student user profile was developed.

			Development Process: - The profile page was developed with various sections. - The page shows small description about the student and other sections regarding their skills and experiences. - The profile page is fully editable by the students. Conclusion: - There are various improvements that are supposed to take place concerning the interface of various cervices. - Each interface of the essential service shall be considered as part of the related service.
6	WP3	Complete	**- Implement a service for syllabus construction from templates or existing pdf documents:** Description: We need a tool which we can parse the syllabus of courses that is uploaded by the instructor. Problems faced: - Most instructors like using different words for titles which makes it harder to detect common titles - Different layouts used, which are not directly supported by PDF format makes it hard to parse content inside syllabus Actions taken: We created an endpoint that will parse the syllabuses using different apps to first map PDF to HTML, then HTML to simple text while extracting potential titles. Solutions found: - We have sampled 30 different syllabuses from different sources to identify common titles and made title extraction from detected title fields based on those - We have relied on just text output, which proved itself reliable for most of the cases.

			Conclusion: - There is no one-fits-all solution however we can approximate the common fields to ease the instructor's job.
7	WP4	Not Started	**- Create a global search service for different indexable entities:** Problems: After revision the global search is considered by itself another WP and It is not part of WP2 anymore. Solutions: this task is moved into the related sprint.
8	WP2	Complete	**- Create Front-end logic for smooth backend binding:** Description: - We at the moment didn't had all the fields that front-end used in the backend APIs - Backend deployments were not possible at the moment and we couldn't route requests due to security constraints Actions taken: We have created a generic way for binding backend to front-end on framework and course pages, which eases development of different components. Actions taken: - We have created some placeholders in backend API - We have run Chrome without web security and re-routing extension to route requests to localhost Conclusion: We can as of now create any sort of front-end logic with ease.

Sprint 4 plan

Item ID	Workpackage ID (from the Kick-off doc)	Description	Status
1	WP2	Do research and create simple user authentication and role management	Leftover from Sprint 3
3	WP4	Create a global search service for different indexable entities	Leftover from Sprint 3
9	WP2	Implementing course creation	New
10	WP2	Editable table creation and updates	New
11	WP3	Creating backend APIs for syllabus service with the related interface	New
12	WP2	Notification service development	New
13	WP2	Creating admin view for role assignments	New

Overall progress

	Sprint 1	Sprint 2	Sprint 3	Sprint 4	Sprint 5
MF1	5%	60%	80%		
MF2	0%	30%	50%		
MF3	10%	35%	40%		
MF4	0%	0%	0%		
MF5	5%	5%	5%		
MF6	0%	0%	0%		
MF7	10%	10%	20%		
MF8	0%	10%	10%		
MF9	20%	30%	30%		
MF10	0%	0%	0%		
MF11	0%	10%	50%		
MF12	0%	0%	0%		
MF13	0%	0%	0%		
MF14	0%	0%	0%		