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INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
يُونُسُ بْنُ سَيِّدَتِي إِسْلَامُ، ابْنُ تَارِ بْنِ جَسْبَا مَلِكِيَا

Garden of Knowledge and Virtue

**KULLIYAH OF INFORMATION & COMMUNICATION
TECHNOLOGY**

CSC 3506 REQUIREMENTS ENGINEERING

SEMESTER 2, 2019/2020

SECTION 1

PROJECT TITLE:IIUM Course Repository Management System

ASSIGNMENT-2: Requirements List

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1. INTRODUCTION

What is the Academic Course Repository System ?

Repository refers to a central place where all the data is stored and maintained. A repository can be a place where multiple databases or files are located for distribution over a network. This is such a system where all the course information, relevant data will be stored.

Why do we need a repository system?

We need to have a repository system to maintain all the relevant files and documents regarding the subject. Which will help the lecturer and the academic staff to get all the necessary files in one place and also the external and internal auditors to have everything in one place.

Until now how is it used and maintained ?

Some documents are in hardcopy and some are in softcopy. The lecturer has to give extra effort to show their progress because everything is not on the same platform. It's not easy to find the previous documents and academic staff can not observe directly in any time. Also it is a tiresome process for the auditors to see everything in a short amount of time.

Why do we need to upgrade the current system?

Till now there is no such system where everything of a course will be stored and the academic staff can observe them directly online with an easy interface for instance with a progress bar. So it is needed to build a system where everything will be stored in one place like a platform and the current progress such as course outline, rubrics, slides, materials, examination question and answers, exercise, assignments, attendance, notes etc can be shown easily .

Who are our stakeholders?

The system will be used by the lecturers of IIUM, by the general office, head of the department and for the internal and external auditors in order to see the completeness of

the course materials and also a platform for the lecturers to manage their files in a cloud platform.

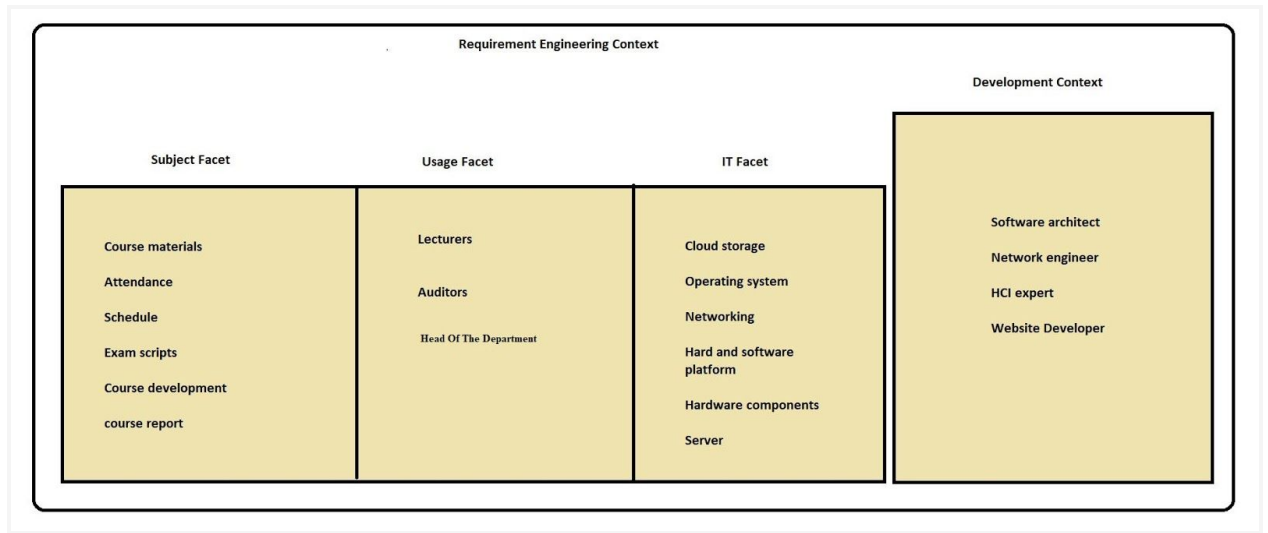


Figure: Requirement Context Figure

Here in the subject facet we have all the components which will be stored in the system. Such as attendance sheet, course outline, course materials, CAM, course report etc. In the usage facet we have the users of the system. In the IT facet we have the components which will be used as the infrastructure of the system such as network, database, cloud storage etc. In the development context we have the developers of the system and all of these make the requirement engineering context.

2. REQUIREMENTS LIST

Table 1: Functional Requirements List

REQ-ID	REQUIREMENTS STATEMENT	REQUIREMENTS SOURCE
RQF_101	Each user shall log in to the system with his name and password prior to using the system.	Existing System
RQF_102	The system should provide an environment to communicate among them privately or publicly.	Observation

RQF_103	The system should provide a dashboard where the user can see the course progress percentage .	Stakeholder - Interview with Dr Azlin (HOD)
RQF_104	The system shall allow the user to change their password if needed.	Existing System
RQF_105	The system should allow the lecturers to login to the system.	Existing System
RQF_106	The system should allow the auditors to login to the system.	Existing System
RQF_107	The system should allow them Head of the Departments to login to the system.	Existing System
RQF_108	The system might allow the user to search their desired items using search option.	Stakeholder - Interview with Dr Raini (HOD)
RQF_109	The system might allow the user to filter out their desired items using the filter option.	Stakeholder - Interview with Dr Raini (HOD)
RQF_110	The system shall allow the auditors to visualize the progress of different materials which is given by the lecturers.	Stakeholder - Interview with Dr Azlin (HOD)
RQF_111	The system shall allow the medical to contact the Kulliyah general office about the MC and timeslip. The general office will update the information after reconfirming with the course lecturer.	Stakeholder - Interview with Dr Raini (Lecturer)
RQF_112	The system shall allow the Kulliyah general office to update the excuse letters provided by students, after reconfirming with the course lecturer.	Stakeholder - Interview with Dr Raini (HOD)

RQF_113	The system shall allow the auditor to review the course.	Stakeholder - Interview with Dr Raini (HOD)
RQF_114	The system shall allow the auditor to highlight any specific file.	Stakeholder - Interview with Dr Raini (HOD)
RQF_115	The system shall allow the HOD to highlight any specific file.	Stakeholder - Interview with Dr Raini (HOD)
RQF_116	The system should allow the lecturer to upload the course timetable with consultation hours in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_117	The system should allow the lecturer to remove the course timetable with consultation hours from the system	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_118	The system should allow the lecturer to modify the course timetable with consultation hours in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_119	The system should allow the lecturer to upload the course outline hours in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_120	The system should allow the lecturer to remove the course outline from the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_121	The system should allow the lecturer to modify the course outline in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_122	The system should allow the lecturer to upload the attendance sheet in the system.	Stakeholder - Interview with Dr Raini (Lecturer)
RQF_123	The system should allow the lecturer to modify the attendance sheet in the system	Stakeholder - Interview with Dr Raini (Lecturer)
RQF_124	The system should allow the lecturer to delete the attendance sheet in the system.	Stakeholder - Interview with Dr Raini (Lecturer)
RQF_125	The system should allow the lecturer to upload the assignments/projects in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)

RQF_126	The system should allow the lecturer to remove the assignments/projects from the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_127	The system should allow the lecturer to modify the assignments/projects in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_128	The system should allow the lecturer to upload the lecture materials in the system.	Stakeholder - Interview with Dr Raini (Lecture
RQF_129	The system should allow the lecturer to remove the lecture materials from the system.	Stakeholder - Interview with Dr Raini (Lecture
RQF_130	The system should allow the lecturer to modify the lecture materials in the system.	Stakeholder - Interview with Dr Raini (Lecture
RQF_131	The system should allow the lecturer to upload the sample assessments in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_132	The system should allow the lecturer to modify the sample assessments in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_133	The system should allow the lecturer to delete the sample assessments in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_134	The system should allow the lecturer to upload the CAM in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_135	The system should allow the lecturer to modify the CAM in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_136	The system should allow the lecturer to delete the CAM in the system.	Stakeholder - Interview with Dr Azlin (Lecturer)
RQF_137	The system should allow the lecturer to upload the Course report in the system.	Stakeholder - Interview with Dr Raini (HOD

RQF_138	The system should allow the lecturer to modify the Course report in the system.	Stakeholder - Interview with Dr Raini (HOD)
RQF_139	The system should allow the lecturer to delete the Course report in the system.	Stakeholder - Interview with Dr Raini (HOD)

Table 2: Quality Requirements List

REQ-ID	REQUIREMENTS STATEMENT	REQUIREMENTS SOURCE
RQQ_101	The user password stored in the system shall be protected against unauthorized access.	Documentation
RQQ_102	The students' projects, assignments and other material shall be protected against any unauthorized access.	Documentation
RQQ_103	The user interface shall be easy to use for the course repository system.	Observation
RQQ_104	The System should be easy to operate and understandable.	Observation
RQQ_105	The system shall show the search results within 2 seconds at max.	Stakeholder - Interview with Dr Raini (HOD)
RQQ_106	The system shall provide zero down time service.	Stakeholder - Interview with Dr Raini (HOD)
REQ_107	The system shall provide different colour code for various progress rates of the files.	Observation

Table 3: Constraint Requirements List

REQ-ID	STATEMENT	REQUIREMENTS SOURCE
RQC_101	The system shall comply with the privacy policies of the university.	Documentation
RQQ_102	The user interface shall not contain symbols or graphics abusive for any culture.	Documentation
RQQ_103	When the user changes his/her password, the system shall validate that the new password is at least eight characters long and contains alphanumeric characters.	Existing System
RQQ_104	The system should automatically logout if the user is inactive for 5 minutes.	Existing System
RQQ_105	The system should allow the auditors to only view the contents	Stakeholder - Interview with Dr Raini (HOD)
RQQ_106	The system should allow the Head of the departments to only view the contents.	Stakeholder - Interview with Dr Raini (HOD)

Table 4: Business (Domain) Requirements List

REQ-ID	STATEMENT	REQUIREMENTS SOURCE
RQB_101	The system should provide a cloud platform for users to manage their files.	Stakeholder - Interview with Dr Raini (HOD)

RQB_102	The system shall generate the result while the carry marks will be updated by teachers.	Stakeholder - Interview with Dr Raini (Lecturer)
RQB_103	The system should help the lecturers by calculating the attendance percentage with the help of the attendance sheet.	Stakeholder - Interview with Dr Raini (Lecturer)
RQB_104	The system shall allow the lecturers to get detailed contact information about the student from AMAD	Stakeholder - Interview with Dr Raini (HOD)
RQB_105	The system shall notify the lecturer about the warning if a student misses a certain amount of classes during the semester.	Stakeholder - Interview with Dr Raini (Lecturer)
RQB_106	The system shall notify the lecturer about the barring if a student misses a certain amount of classes during the semester after getting the warning letter.	Stakeholder - Interview with Dr Raini (Lecturer)
RQB_107	The system shall show the modification history of the uploaded files.	Existing System

3. PROTOTYPING

IIUM Academic Course Repository Management System

LOGIN AS LECTURER (3) | LOGIN AS AUDITOR (4) | LOGIN AS HEAD OF DEPARTMENT (5)

Login as Head of Department

Name* (1)

ID Number* (1)

① Password must contain at least 8 characters including special characters and numbers (6)

Login

Forgot password? (2)

Figure 1: Login Page

Label	UI elements	Mapping to Requirements/Explanation
1	Login Page with name and password	RQF_101
2	Change Password	RQF_104
3	Login as Lecturers	RQF_105
4	Login as Auditors	RQF_106

5	Login as HOD	RQF_107
6	Password at least 8 characters	RQQ_103

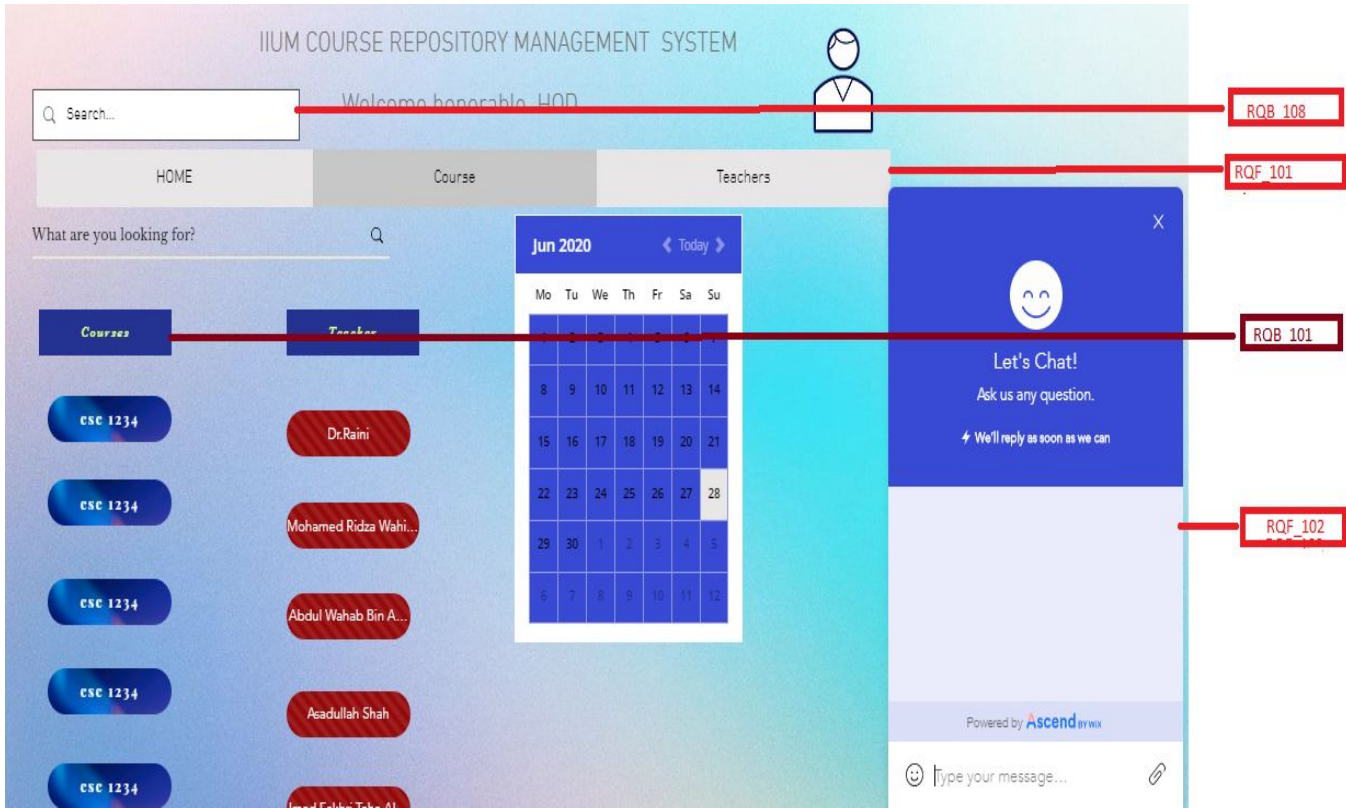


Figure 2: HOD interface instance

Label	UI elements	Mapping to Requirements/Explanation
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1	Search bar	RQB_108
2	Cloud platform	RQB_101
3	Cloud platform	RQB_101
4	Chat bar	RQB_102

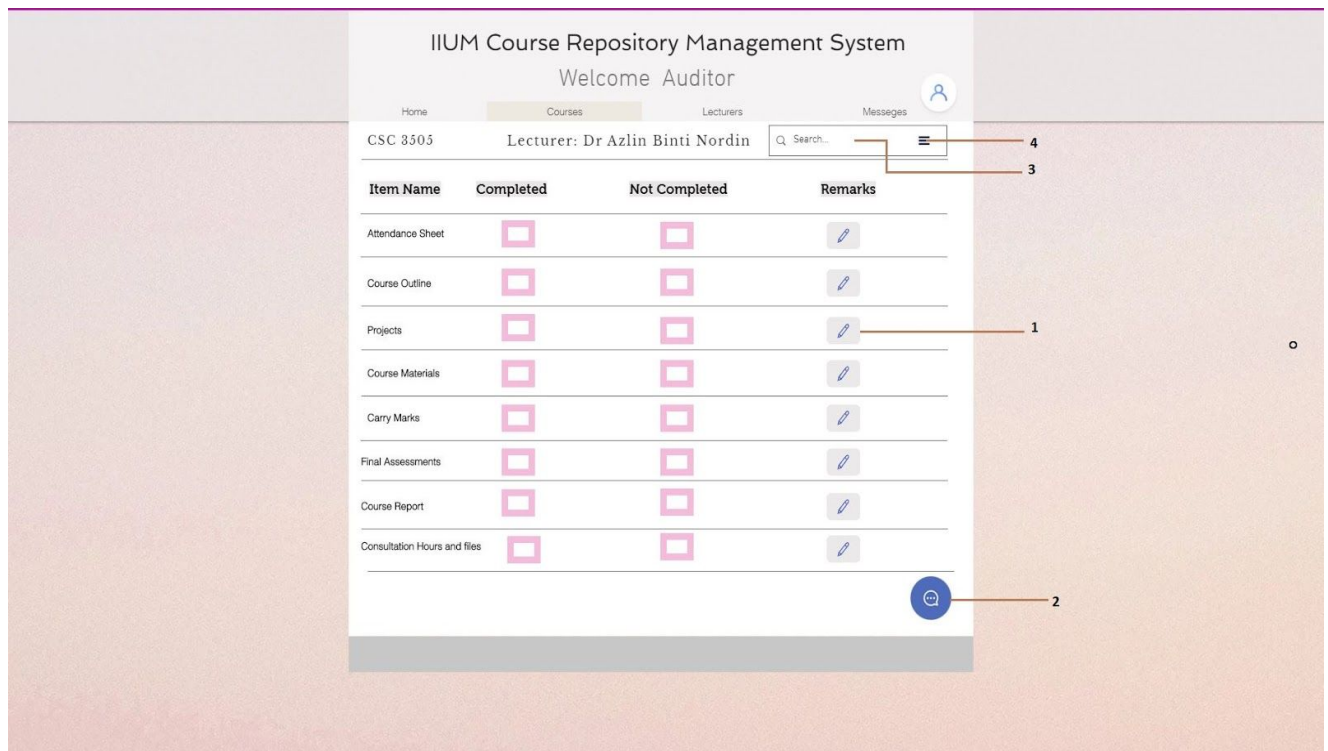


Figure 3: Auditors interface instance

Label	UI elements	Mapping to Requirements/Explanation
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1	Remark	RQF_113
2	Chat Box	RQF_102
3	Search Option	RQF_108
4	Filter Option	RQF_109

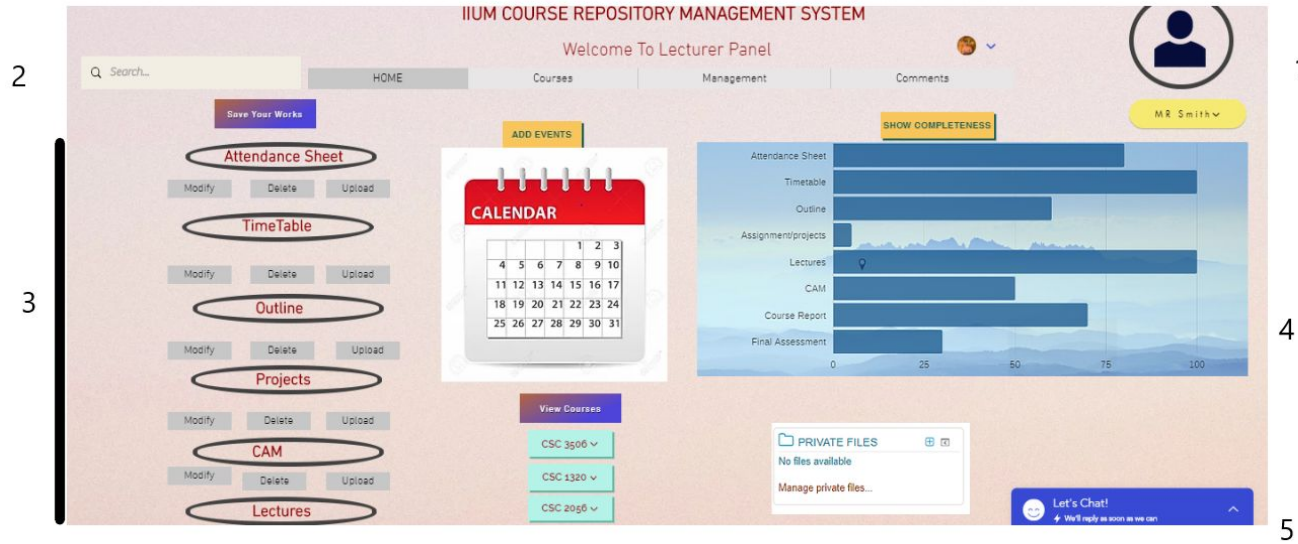


Figure 4: Lecturer View

Label	UI elements	Mapping to Requirements/Explanation
1	Login	RQF_113

2	Search	RQQ_105
3	Upload files	RQF_116
4	Completeness	RQF_103
5	Chat Feature	RQF_102