CourseMind

Group 2 Date: 10/08/2024

Authors:

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USE CASE NAME:	Generating Examples from teaching ma	aterials	USE CASE TYPE
USE CASE ID:	1		Business Requirements:
PRIORITY:	1		System Analysis:
SOURCE:	Teacher		System Design:
PRIMARY BUSINESS ACTOR	Teacher who wants to teach some topi	c to studer	nts
PRIMARY SYSTEM ACTOR	CourseMind System (working on gener		
OTHER PARTICIPATING	Generative AI Model (part of a contract	CourseMin	d)
ACTORS:			
OTHER INTERESTED	•		
STAKEHOLDERS:			
DESCRIPTION:	Focuses on generating examples to tea		
PRE-CONDITION:	Teacher has uploaded some teaching n		r the selected course from which
TRICCER	Teacher wants CourseMind to create e		
TRIGGER:	Teacher wants to teach something and		
TYPICAL COURSE	Actor Action		Response
OF EVENTS:	Step 1 : Teacher navigates to selected		ives examples for faculty to filter
	course Step 2: Selects uploaded material	through	
	from which teacher wants to create		
	examples		
	Step 3: Gives some details about		
	what type of examples teacher		
	wants		
	Step 5: Selects and exports these		
	examples in JSON		
ALTERNATE COURSES:	If Teacher doesn't like the examples generated by CourseMind, teacher can provide		
	feedback to CourseMind which allows	teacher to	get different examples
	If user CourseMind deesn't get any get	nd ovamnic	os it would return with error message
CONCLUSION:	If user CourseMind doesn't get any good examples it would return with error message Teacher will have examples for particular topic ready to help students with studying		
POST-CONDITION:	Teachers will have examples for particular topic ready to help students with studying Teachers will have examples generated and stored into a database as well as JSON of all		
1 631 CONDITION.	examples exported.		
BUSINESS RULES	Teacher should be logged in		
	Should have uploaded some r	eference m	naterial
IMPLEMENTATION	Only authorized users can access		
CONSTRAINTS AND	It creates examples on 1 topic at a time		
SPECIFICATIONS			
ASSUMPTIONS:	Teachers will provide high quality teaching material to create examples from		
OPEN ISSUES:			

USE CASE NAME:	Generating Question of different types	from USE CASE TYPE
	teaching materials	
USE CASE ID:	2	Business Requirements:
PRIORITY:	1	System Analysis:
SOURCE:	Teacher	System Design:
PRIMARY BUSINESS ACTOR	Teacher who wants to assess student's	knowledge on some topic
PRIMARY SYSTEM ACTOR	CourseMind System (working on generation	rating examples)
OTHER PARTICIPATING	Generative AI Model (part of	CourseMind)
ACTORS:		
OTHER INTERESTED	•	
STAKEHOLDERS:		
DESCRIPTION:		te questions from a given teaching materials so
DDE CONDITION	that they can assess students' perform	
PRE-CONDITION:	Teacher wants CourseMind to create q	materials for the selected course from which
TRIGGER:	Teacher wants to generate quiz question	
TYPICAL COURSE		l .
	Actor Action	System Response
OF EVENTS:	Step 1: Teacher navigates to selected	Step 4 : CourseMind will give question based on metadata and material given
	Step 2: Selects uploaded material	Inetauata anu materiai given
	from which the teacher wants to	
	create questions from.	
	Step 3: Gives type of question and	
	number of questions to be	
	generated.	
	Step 5: Selects and exports the	
	complete quiz in QTI format	
ALTERNATE COURSES:	If Teacher doesn't like the questions generated by CourseMind, teacher can provide	
	feedback to CourseMind which allows teacher to get different questions based on the	
	feedback	
	If user CourseMind doesn't get the red	quired number of questions it will give however
	-	an error saying that was only able to generate
	some of it.	, , , ,
CONCLUSION:	Teacher will have a quiz which can be	used to assess students' knowledge on certain
	topic	
POST-CONDITION:	Teacher will have questions generated and stored into a database as well as exported to	
	Canvas for assessment.	
BUSINESS RULES	Teacher should be logged in	
	Should have uploaded some in the sound many idea in his transport of the sound in the sound	
IMDI EMENITATIONI	Should provide valid type of c Only authorized users can ass	
IMPLEMENTATION CONTRAINTS AND	Only authorized users can acc	ess
SPECIFICATIONS		
ASSUMPTIONS:	Teachers will provide high qua	ality teaching material to create questions from
OPEN ISSUES:	Process Man day	- A see seeing material to broade quotient from
U. LIT 1000LU.	I.	

USE CASE NAME:	Generating Assignments for courses from		USE CASE TYPE	
	teaching materials			
USE CASE ID:	3		Business Requirements:	
PRIORITY:	1		System Analysis:	
SOURCE:	Teacher		System Design:	
PRIMARY BUSINESS ACTOR	Teacher who wants to give students pe	Teacher who wants to give students personalized assignment for particular topic		
PRIMARY SYSTEM ACTOR	CourseMind System (working on gener	rating exa	imples)	
OTHER PARTICIPATING	Generative AI Model (part of	CourseM	ind)	
ACTORS:				
OTHER INTERESTED	•			
STAKEHOLDERS:		11.55		
DESCRIPTION:	This feature allows teachers to general materials so that they can assess stude			
PRE-CONDITION:			create short personalized assignments	
	for students		·	
TRIGGER:	Teacher wants to generate quiz question	ons to ass	sess students	
TYPICAL COURSE	Actor Action	Syster	n Response	
OF EVENTS:	Step 1 : Teacher navigates to selected	Step 4:	Generates assignments based on	
	course	informa	ation and sample given	
	Step 2: Selects uploaded material			
	from which the teacher wants to			
	create questions from.			
	Step 3: Gives the idea and sample of			
	assignment and number of assignments required			
	Step 5: Selects and exports the JSON			
	of created assignments			
ALTERNATE COURSES:	If Teacher doesn't like the assignments generated by CourseMind, teacher can provide			
	feedback to CourseMind which allows teacher to get different assignments based on			
	their feedback			
	-	=	mber of assignments it will give however	
	some of it.	an error s	saying that it was only able to generate	
CONCLUSION:	Teacher will get examples generated for	or particu	lar tonic ready to help students with	
CONCEDSION.	studying using existing teaching mater	•	ial topic ready to help students with	
POST-CONDITION:	Teachers will have questions generated and stored into a database as well as exported			
	to Canvas for assessment.		to a mile a database as them as expented	
BUSINESS RULES	Teacher should be logged in			
	Should have uploaded some reference material			
	Should provide valid type of question			
IMPLEMENTATION	Only authorized users can access			
CONTRAINTS AND				
SPECIFICATIONS		10		
ASSUMPTIONS:	Teachers will provide high quality teaching material to create assignments from			
OPEN ISSUES:				

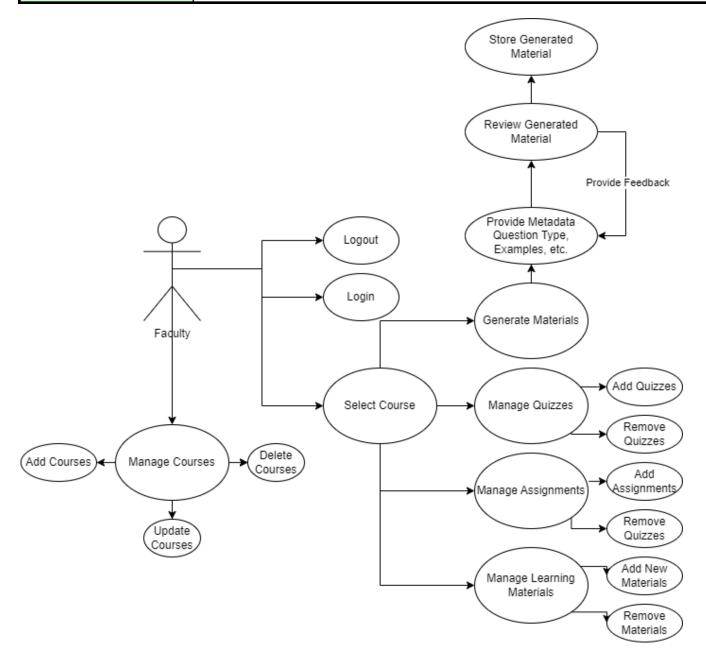
USE CASE NAME:	Authentication	USE CASE TYP	E
USE CASE ID:	4	Business Requirements:	
PRIORITY:	1	System Analysis:	
SOURCE:	Teacher	System Design:	?
PRIMARY BUSINESS ACTOR	The person uploading and managing course content.		
PRIMARY SYSTEM ACTOR	The system where the materials are stored and managed.		
OTHER PARTICIPATING ACTORS:	Teaching Assistants and Canvas		
OTHER INTERESTED STAKEHOLDERS:	• None		
DESCRIPTION:	This feature allows teacher to login and keep their data separated from others so that it doesn't get mixed up		
PRE-CONDITION:	Teacher has internet access and a compatible device		
TRIGGER:	To create an account or log into existing one		
TYPICAL COURSE	Actor Action	System Response	
OF EVENTS:	Step 1 : Teacher navigates to login portal	Step 2 : System validates the credent	ials
	Types in his credentials in the system or register with all the details	Saves their account details and allow the system with just their own data	s access to
	Teacher can logout of their account	Clears the cookies and authenticatio cache and navigate them back to log	•
ALTERNATE COURSES:	If the Teacher email does not exist, it v	ll show the SignUp page.	
	If CourseMind can not validate the credentials it will return an error saying Invalid Credentials.		
CONCLUSION:	Atlast, the teacher will be able to perform CRUD requests for their courses		
POST-CONDITION:	If the credentials were correct then the teacher would be redirected to the dashboard with their data.		
BUSINESS RULES	Teacher must have an account or sign up with all the details		
IMPLEMENTATION CONSTRAINTS AND SPECIFICATIONS	All the details provided by the	user, mainly emailld, must be correct	
ASSUMPTIONS:	Only users logged in/ registered can be authenticated		
OPEN ISSUES:	None		

USE CASE NAME:	Manage all courses		
USE CASE ID:	5		
PRIORITY:	1		
SOURCE:	Teacher		
PRIMARY BUSINESS ACTOR	Teacher who wants to manage all his courses		
PRIMARY SYSTEM ACTOR	CourseMind (The backend system for managing all the user courses and CRUD requests)		
OTHER PARTICIPATING	Teaching Assistants and Canvas		
ACTORS:			
OTHER INTERESTED	None		
STAKEHOLDERS:			
DESCRIPTION:	This feature allows teachers to create, update, read and delete all their courses.		
PRE-CONDITION:	Teacher has internet access and a compatible device and is authenticated.		
TRIGGER:	To manage their courses in one page		
TYPICAL COURSE	Actor Action		
OF EVENTS:	Step 1: Teacher sees the dashboard		
	and their added courses(if any)		
	Adds new course name, code,		
	description and start and end date		
	and save		
	Teachers can edit any listed course,		
	make changes and save. Teacher can delete any course and all		
	his materials. A confirmation		
	dropbox will popup for delete.		
	an opposit with popular to the control		
ALTERNATE COURSES:	If Teacher is not authenticated, it will show the LogIn/SignUp page.		
	If the added course details are of incorrect type or missing, it will return an error		
	message and won't add it to the dataset.		
	If CourseMind faces any error in deleting the course or course material from the		
	database, it will return with error message		
CONCLUSION:	Atlast, the teacher will be able to perform CRUD requests for their courses		
POST-CONDITION:	Teacher will have all the courses added, updated and listed on the dashboard.		
BUSINESS RULES	User/Teacher/Professor must be logged in		
INADI ENAFRITATIONI	Course that is being added should have all required information		
IMPLEMENTATION CONSTRAINTS AND	Only authorized users are granted read permission		
CONSTRAINTS AND SPECIFICATIONS			
ASSUMPTIONS:	Only users seeing this page must be authorized		
OPEN ISSUES:	None		
OF LIVISSOLS.	▼ NOTE		

USE CASE NAME:	Selecting course from a list of courses	l am	USE CASE TYPE	
	teaching and taught in the past		OSE CASE THE	
USE CASE ID:	6		Business Requirements:	
PRIORITY:	1		System Analysis:	
SOURCE:	Teacher/Professor		System Design:	?
PRIMARY BUSINESS ACTOR		r into an i	-	
PRIMARY SYSTEM ACTOR	CourseMind (The backend system)	Teacher/Professor (who wants to enter into an individual course from portal) CourseMind (The backend system)		
OTHER PARTICIPATING	•			
ACTORS:				
OTHER INTERESTED	•			
STAKEHOLDERS:				
DESCRIPTION:	Focuses on selecting a course from exi	sting cou	rses list for opening course mate	erial
PRE-CONDITION:	User has internet access and a compat	ible devi	ce and has at least one course a	dded in
	the database			
TRIGGER:	User wants to enter into an individual	course w	ebpage for further work	
TYPICAL COURSE	Actor Action	Syster	n Response	
OF EVENTS:	Step 1 : User navigates to the Courses page	process inside a	Upon successful completion of the system will display—i. User course page where assignment are displayed.	enters
	Step 2: User clicks on "Open" button and enters into a course by filling			
ALTERNATE COURSES:	If error occurs during the course select	process,	the error message will be displa	ayed.
CONCLUSION:				
POST-CONDITION:	User will view individual course webpa quizzes	ige, displa	aying course notes, assignments	and
BUSINESS RULES	 User/Teacher/Professor must be logged in There should be at least one course added in the system 			
IMPLEMENTATION CONTRAINTS AND SPECIFICATIONS	Only authorized users are granted read permission			
ASSUMPTIONS:	Only authorized users are granted read permission			
OPEN ISSUES:	Courses are already present in the database to begin with			

USE CASE NAME:	Managing Assignments for courses fro	m USE CASE TYPE	
	teaching materials		
USE CASE ID:	7	Business Requirements:	
PRIORITY:	1	System Analysis: □	
SOURCE:	Teacher	System Design:	
PRIMARY BUSINESS ACTOR	Teacher who is responsible for managi		
PRIMARY SYSTEM ACTOR	CourseMind System (helps teachers to		
OTHER PARTICIPATING	Generative AI Model (part of		
ACTORS:	"	·	
OTHER INTERESTED	•		
STAKEHOLDERS:			
DESCRIPTION:	This feature focuses on how teachers r	manage the course assignments for a particular course	
	including the ability to add, remove an		
PRE-CONDITION:		ed into the system and has selected a course for which	
	they want to manage assignments.		
TRIGGER:	Teacher wants to manage assignments	I	
TYPICAL COURSE	Actor Action	System Response	
OF EVENTS:	Step 1 : Teacher navigates to selected	ii) Remove Assignment:	
	course's dashboard	Teacher selects an existing assignment to remove.	
		The system asks for confirmation before removing	
		the assignment. Teacher confirms, and the assignment is removed.	
	Step 2: Selects "Manage	iii) Review Assignment:	
	Assignments" option and the system	Teacher selects an existing assignment to review.	
	displays all the existing assignments	The system displays the details of the selected	
	for selected course	assignment. Teachers can update the details or	
		leave them unchanged.	
	Step 3: Teacher can choose to do		
	i) Add Assignments:		
	Teacher selects Add Assignment		
	The system prompts for assignment		
	details (title, due date, description, etc)		
ALTERNATE FLOW:	,	I ent without providing all required information (e.g.	
ALIZANZA ZOWA	If Teacher attempts to add an assignment without providing all required information (e.g., missing title or due date), the system will prompt them to complete the missing fields before submission.		
	If Teacher tries to remove an assignment	ent that has active student submissions, the	
	CourseMind system will prompt them with a warning that removal will also delete the		
	submissions, requiring confirmation.		
CONCLUSION:	Teacher will be able to add, delete and update assignments to keep the course materials up to date and relevant		
POST-CONDITION:			
	If the assignment is added or removed successfully, the course assignments list is updated accordingly. If there is an issue with adding or removing assignments (e.g., network error), an error		
	message is displayed to the faculty member.		
BUSINESS RULES	Togshor should be logged in		
DOSINESS RULES	Teacher should be logged inShould have assignments to b	ne managed	
	- Should have assignments to b	- managed	

IMPLEMENTATION	Only authorized users can access
CONSTRAINTS AND	
SPECIFICATIONS	
ASSUMPTIONS:	Teachers will perform high quality management to manage assignments
OPEN ISSUES:	



github repo link: https://github.com/ParshwaS/CourseMind