Team #2

User Requirement Specifications

Database Systems

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1. Introduction

1.1   Purpose

This project is an online system that allows students, instructors, and administrators to access course registration, course information, and a library catalog within a single application.

1.2   Deliverables

As our team works on this project, here are the deliverables we plan on creating:
- Project plan
- User requirements specification (URS)
- Test plans
- E.R. model
- Normalized database
- High-level design (screen, database, architecture)
- Iteration #1 project demonstration
- Iteration #2 project demonstration
- Final team presentations.

2. Product Description

2.1 User Characteristics

- Students
  - Search for and register for/dropp classes
  - View homework and download lectures
  - Upload and download assignments to group/individual folders in multiple formats (e.g. PDF, Word, Excel, etc.).
  - Access grades and graded assignments
  - Take online quizzes
  - View notifications on due dates/materials
  - Request library materials
- Instructors
  - Upload syllabi
  - Post news items
  - View class list
  - Form groups
  - Offer quizzes
  - Request library materials
  - List textbooks that are reserved for specific courses
- Librarian
  - Add new materials to library catalog
  - Access borrower records
  - View issued/returned items
  - Send due date notices
  - Display library materials
- Administrators
  - Create/delete any of the following
    - Format
    - Content area
    - Delivery mode
    - Subscription type.

3.   Functional Requirements

Requirement	Completed
When a user logs into the system, they must have access to course information, registration information, and the library catalog.	
When a user views course information, they should see and select from all current courses.	
When a student selects a specific course, they should have access to individual/group folders, grades, and files posted by instructor.	
When a student selects to view grades, they should see all grades for assignments, quizzes, and exams.	
When a student selects to view files, they should be able to download the files from the server.	
When a student selects to upload files to individual/group folders, the files should be seen by only the authorized parties (i.e. teammates, professor, self).	
When a user requests library materials, they must be able to check out the materials, place holds on materials, and return materials.	
When a student selects to view course registration information, they must see course numbers, course titles, instructors, location, the number of remaining seats, and time/date.	
When an instructor views a specific course, they must be able to see all grades of all students.	
When an instructor views a specific course, they must be able to modify the grades in place.	
When an instructor views a specific course, they must be able to upload files to the course Content page.	
When an instructor views a specific course, they must be able to view all individual/group folders.	
An instructor must be able to post quizzes on the course page.	
When a user views the library catalog, they must be able to search by name, author, and ISBN	
When a user views the library catalog, they must be able to place holds and check out items.	
When a librarian views the library catalog, they	

must be able to view all items checked out/reserved.	
When a librarian views the library catalog, they must be able to send notices for due materials.	
When a student/instructor views student records, they must be able to view degree audit.	
When a student views student records, they must be able to view/submit housing information	

4   Functions

4.1   Functions and Data Elements

- Get current classes
  - Takes current user role (student/instructor/administrator), student ID, and returns a list of courses associated with that user.
- Get housing information
  - Takes current student ID, and displays housing information for that user.
- Get student grades
  - Get user role (student/instructor), student ID, and returns a list of grades for that user.
- Get course student grades
  - Gets user role (instructor), instructor ID, course ID, and returns a list of grades for the entire class for just that course.
- Post files on course website
  - Gets user role (instructor), instructor ID, course ID, and file, and saves it to the course list.
- Post grades on course website
  - Gets user role (instructor), instructor ID, course ID, student ID, and grade, and saves grade for the student for the course.
- Register for classes
  - Gets user role (student), student ID, course ID, current term, and returns number of students, increments number of students if space remaining, and adds course to student course list.
- View grades on course website
  - Get user role (student), student ID, course ID, and returns grades for homework, quizzes, and tests.
- Post quizzes
  - Get user role (instructor), course ID, question titles, answer type, and submits quiz.