

# Project: Knowledge Haven (A learning management software)

## Story

Once upon a time, in the bustling city of techno Ville, there stood a venerable institution known as Knowledge Haven. Nestled amidst the city's innovation and intellect, Knowledge Haven was more than just a university; it was a beacon of knowledge and a hub of learning excellence.

At the heart of Knowledge Haven's commitment to academic advancement lay its revolutionary Learning Management System (LMS) software. Designed to streamline educational processes and enhance the learning experience, the LMS was a testament to the institution's dedication to innovation.

Leading the charge in managing this cutting-edge software was the esteemed **Administration** team, headed by the visionary Professor Lumina. With meticulous precision, Professor Lumina and her team orchestrated the seamless operation of the LMS, ensuring that students and instructors alike could harness its full potential.

Meanwhile, within the virtual corridors of the LMS, a vibrant community of learners thrived. Among them were Sarah and Tom, two ambitious students eager to embark on their educational journey. Equipped with their unique student IDs, usernames, and passwords, Sarah and Tom delved into the vast array of courses offered by Knowledge Haven.

Guiding them through this academic odyssey were the distinguished educators of Knowledge Haven, represented by the revered **Instructor** class. Dr. Edison and Dr. Rivera, renowned experts in their fields, crafted captivating courses and delivered enlightening lectures to inspire their students.

Intrigued by the prospect of mastering new skills, Sarah enrolled in "Introduction to Programming," a course meticulously curated by Dr. Edison. With a few clicks, Sarah's enrollment triggered a harmonious interaction between the **Course** and **Student** classes, seamlessly integrating her into the course roster.

As the weeks unfolded, Sarah and Tom immersed themselves in their respective courses, navigating through lecture slides, engaging in interactive quizzes, and tackling challenging assignments, all facilitated by the intuitive interface of the LMS.

Behind the scenes, Dr. Edison utilized the powerful tools provided by the **Instructor** class to sculpt his course curriculum with precision. From crafting thought-provoking quizzes to designing comprehensive assignments, Dr. Edison leveraged the LMS to cultivate an environment conducive to learning and growth.

As the semester ended, Sarah eagerly awaited her moment of triumph: the attainment of her certification. With bated breath, she accessed the **Certification** class within the LMS, where her hard-earned credentials awaited her.

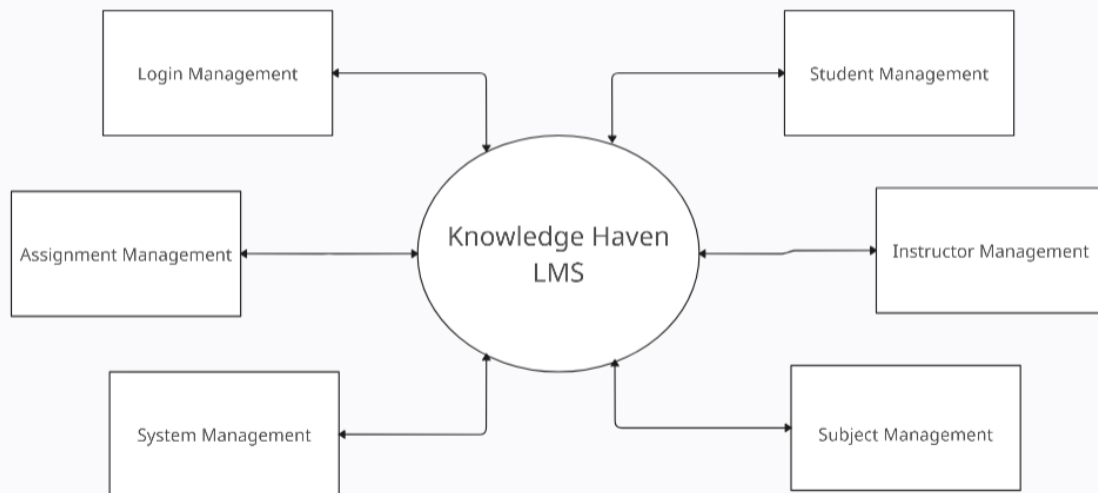
With a sense of pride and accomplishment, Sarah emerged from Knowledge Haven, armed with newfound knowledge and a certification that served as a testament to her dedication and perseverance. As she ventured forth into the world, she carried with her the invaluable lessons and experiences gleaned from her time within the hallowed halls of Knowledge Haven.

In the grand tapestry of academia, the Learning Management System at Knowledge Haven stood as a beacon of innovation and enlightenment, empowering students like Sarah and Tom to realize their full potential and embark on a journey of lifelong learning and discovery.

## **Classes**

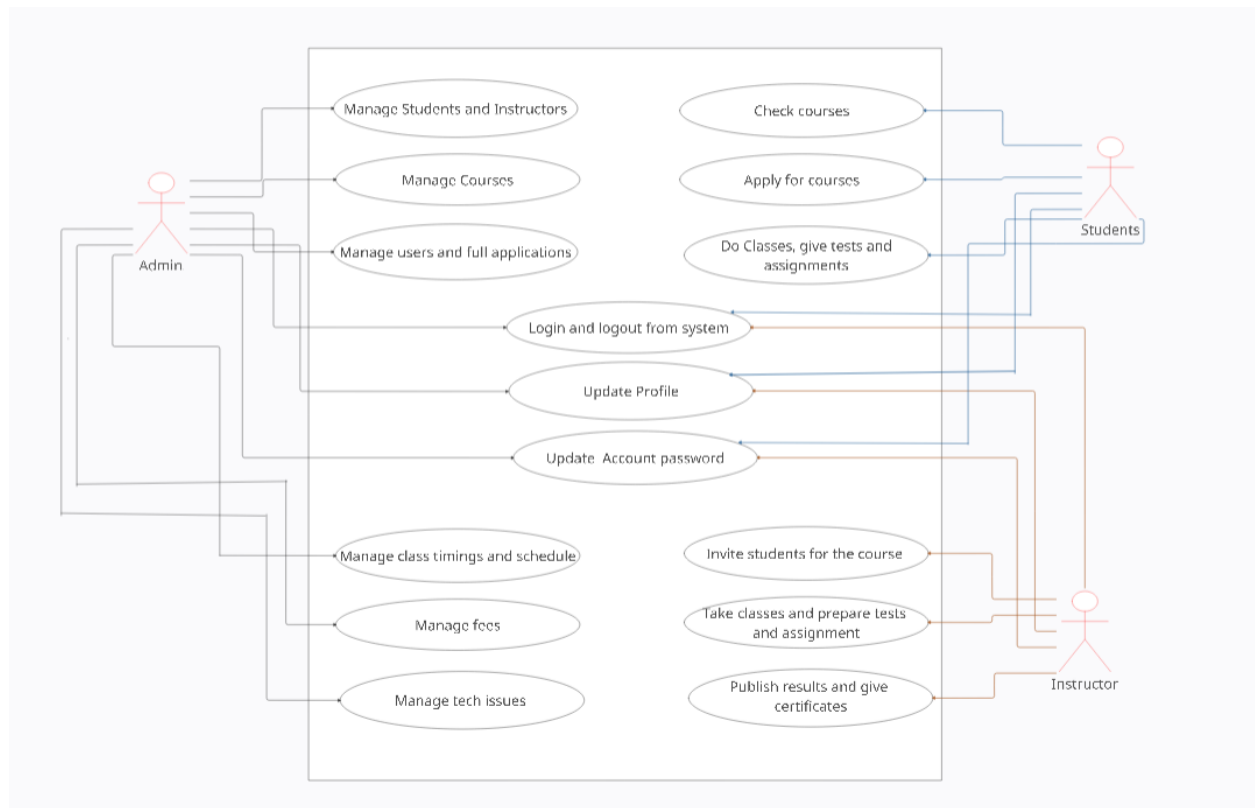
1. Administrative Class
2. Student Class
3. Instructor Class
4. Course Class
5. Quiz Class
6. Certificate Class
7. Account Class
8. Grade class

## **Zero Level DFD – Knowledge Haven**



Link: <https://app.creately.com/d/o1UsTSoJDYH/view>

## Use Case Diagram

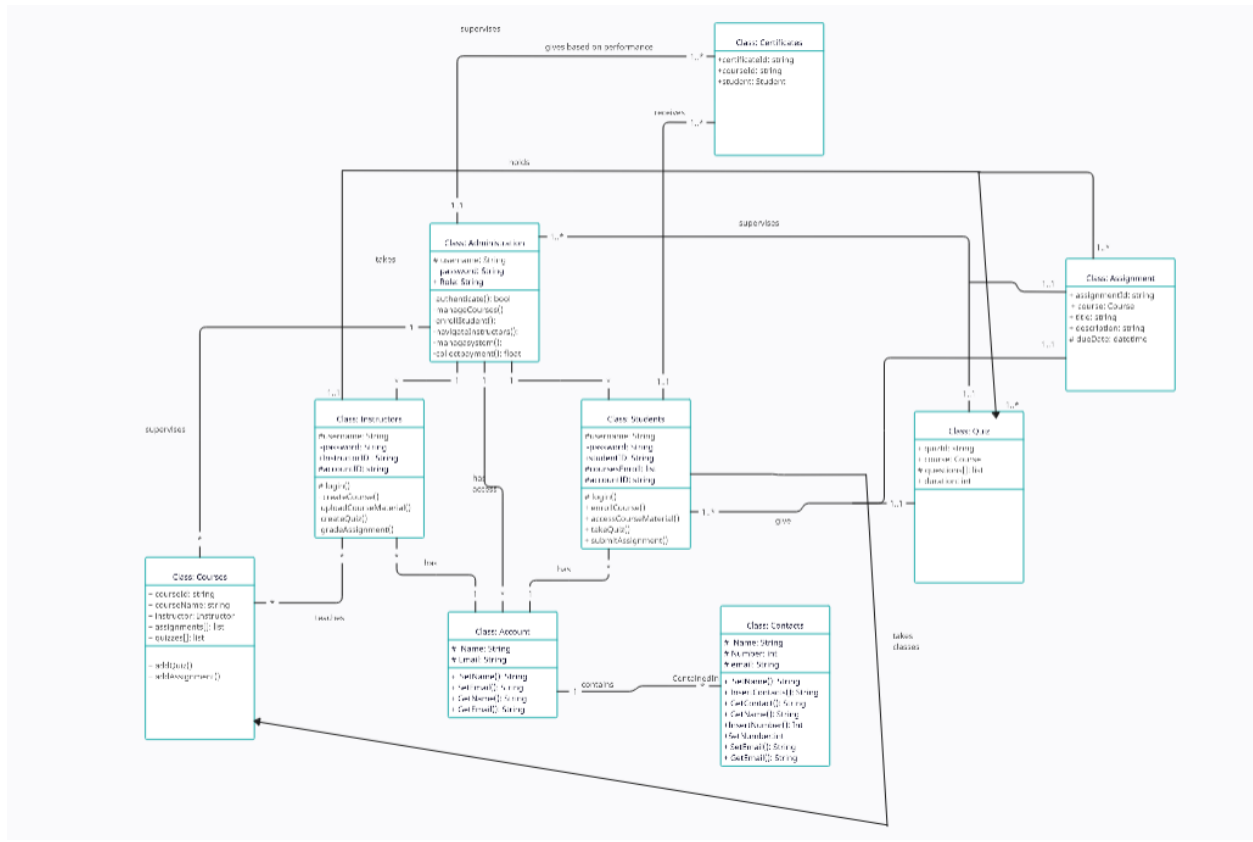


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## Use Cases

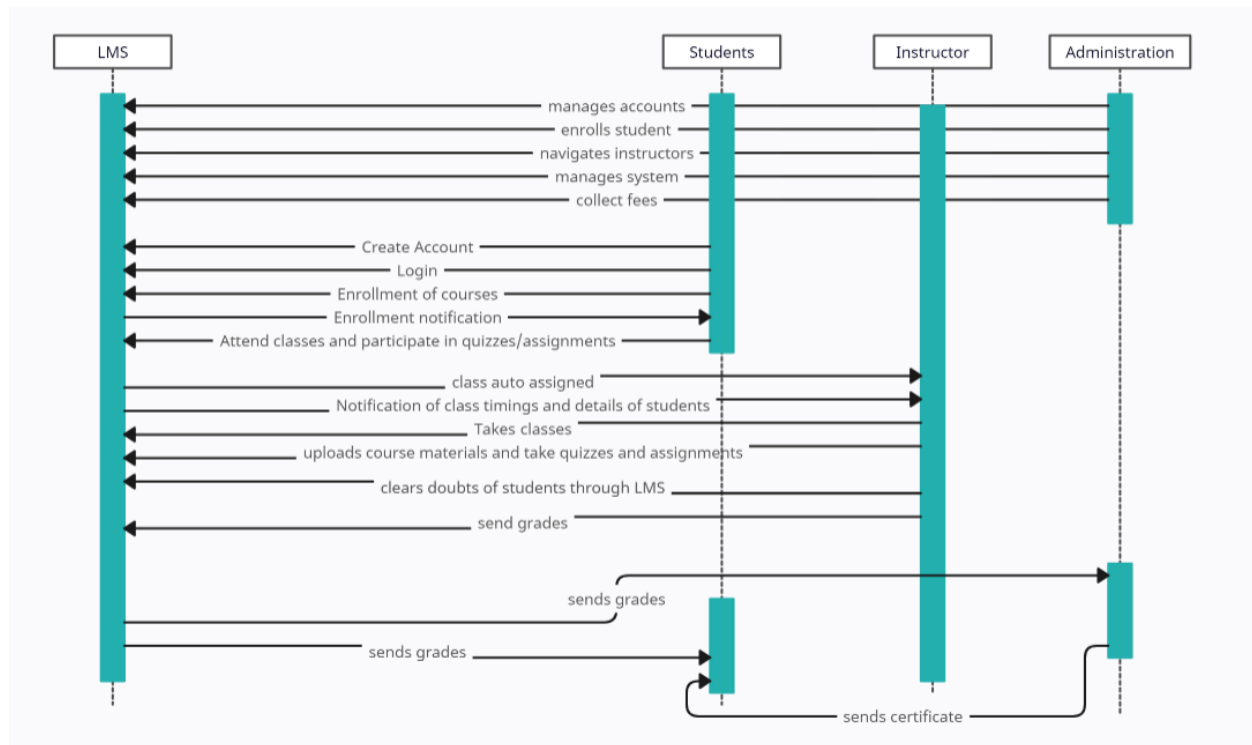
Included in another file.

# Class Diagram



Link: <https://app.creately.com/d/OHEaSziBMcg/view>

## Sequence Diagram



Link: <https://app.creately.com/d/wrYU0kJUOLP/view>

This sequence diagram provides a high-level overview of the interaction between the student and the system when enrolling in a course. Similar sequences can be created for other interactions within the system, such as submitting assignments, generating certificates, or managing user accounts.

It also overviews the instructor class and how it interacts with students' class and system.

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