

The background image is a wide-angle shot of a grand library. The ceiling is a high, vaulted dome with a grid of decorative panels. Large windows on the right side allow natural light to fill the space. Numerous long wooden tables are arranged in rows, with many students sitting at them, working on laptops. Bookshelves filled with books line the walls. The overall atmosphere is one of a quiet, studious environment.

# UNIVERSITY MANAGEMENT SYSTEM

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# CONTEXT

The University Course Management System (UCMS) project aims to revolutionize academic administration by providing an integrated platform for students, faculty, and administrative staff. Through streamlined processes for course enrollment, grade management, and reporting, UCMS enhances efficiency and transparency in university operations, ultimately enriching the academic experience for all stakeholders.

# ABOUT PROJECT

The background of the slide is a photograph of a large, historic library interior. It features high ceilings, large arched windows on the right side, and long wooden study tables with chairs. Bookshelves filled with books line the walls. The lighting is warm and natural, coming from the windows. The overall atmosphere is academic and quiet.

01



# INTRODUCTION

Brief overview of the UCMS project

- **Objectives:** Streamline course-related activities for students, faculty, and administrative staff



# 02



## NORMALIZED TABLES

Overview of normalized tables in the UCMS database

- **Normalization:** Tables designed to 3NF with integrity and domain constraints
- **Table Definitions:** Detailed documentation of table structures and attributes (provided in project report)



# USER INTERFACE DESIGN

Overview of user interface design for UCMS  
(future enhancements)

**Forms:** Input forms for student enrolment, course creation, etc.

- **Reports:** Generated reports for grade submissions, enrolment statistics, etc.
- **Triggers:** Implemented triggers for automation and business rule enforcement
- **User Roles:** Different interfaces tailored to student, faculty, and administrative roles



## REFERENCES

- List of references used in the UCMS project
- Korth, H. F., & Silberschatz, A. (2006). Database System Concepts (6th ed.). McGraw-Hill Education.
- Elmasri, R., & Navathe, S. B. (2016). Fundamentals of Database Systems (7th ed.). Pearson.
- Connolly, T., & Begg, C. (2014). Database Systems: A Practical Approach to Design, Implementation, and Management (6th ed.). Addison-Wesley.

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# CONCLUSION

Summary of UCMS project accomplishments

- **Success Factors:** Thorough analysis, comprehensive design, and meticulous implementation
- **Impact:** UCMS delivers a user-friendly and reliable platform for academic management
- **Appreciation:** Thanks to team members, and peers for their contributions and feedback