



ULAB
**UNIVERSITY OF LIBERAL ARTS
BANGLADESH**

Project Proposal

Course No.: CSE 3102

Course Title: Database Management Lab

Section: 2

Submitted to

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1. Project Title:

"Earn a Career" - An Integrated Learning Management System with Content Management Capabilities

2. Introduction:

In the rapidly evolving landscape of online education, the demand for comprehensive and user-friendly platforms has become paramount. "Earn a Career" is an innovative project that aims to develop a cutting-edge Learning Management System (LMS) with robust Content Management System (CMS) capabilities. This platform is designed to empower learners, instructors, and educational institutions with a seamless and engaging online learning experience.

Problem Statement 1:

Traditional educational methods often face challenges in terms of accessibility, flexibility, and scalability. Learners may encounter difficulties in accessing educational resources, tracking their progress, and engaging with instructors and peers. Instructors, on the other hand, may struggle with organizing and disseminating course materials, tracking student performance, and managing administrative tasks efficiently. The lack of a centralized and user-friendly platform can hinder the overall learning experience and educational outcomes.

3. Problem Statement 2:

Traditional educational methods often face challenges in terms of accessibility, flexibility, and scalability. Learners may encounter difficulties in accessing educational resources, tracking their progress, and engaging with instructors and peers. Instructors, on the other hand, may struggle with organizing and disseminating course materials, tracking student performance, and managing administrative tasks efficiently. The lack of a centralized and user-friendly platform can hinder the overall learning experience and educational outcomes.

1. Objectives:

- a. Develop a user-friendly and intuitive LMS integrated with CMS capabilities to facilitate online learning and content management.
- b. Leverage the features of MasterStudy Pro to enhance the platform's functionality and user experience.
- c. Enable seamless creation, organization, and delivery of course materials, including multimedia content, quizzes, and assessments.
- d. Implement robust user management features, including role-based access control, enrollment, and progress tracking for learners and instructors.

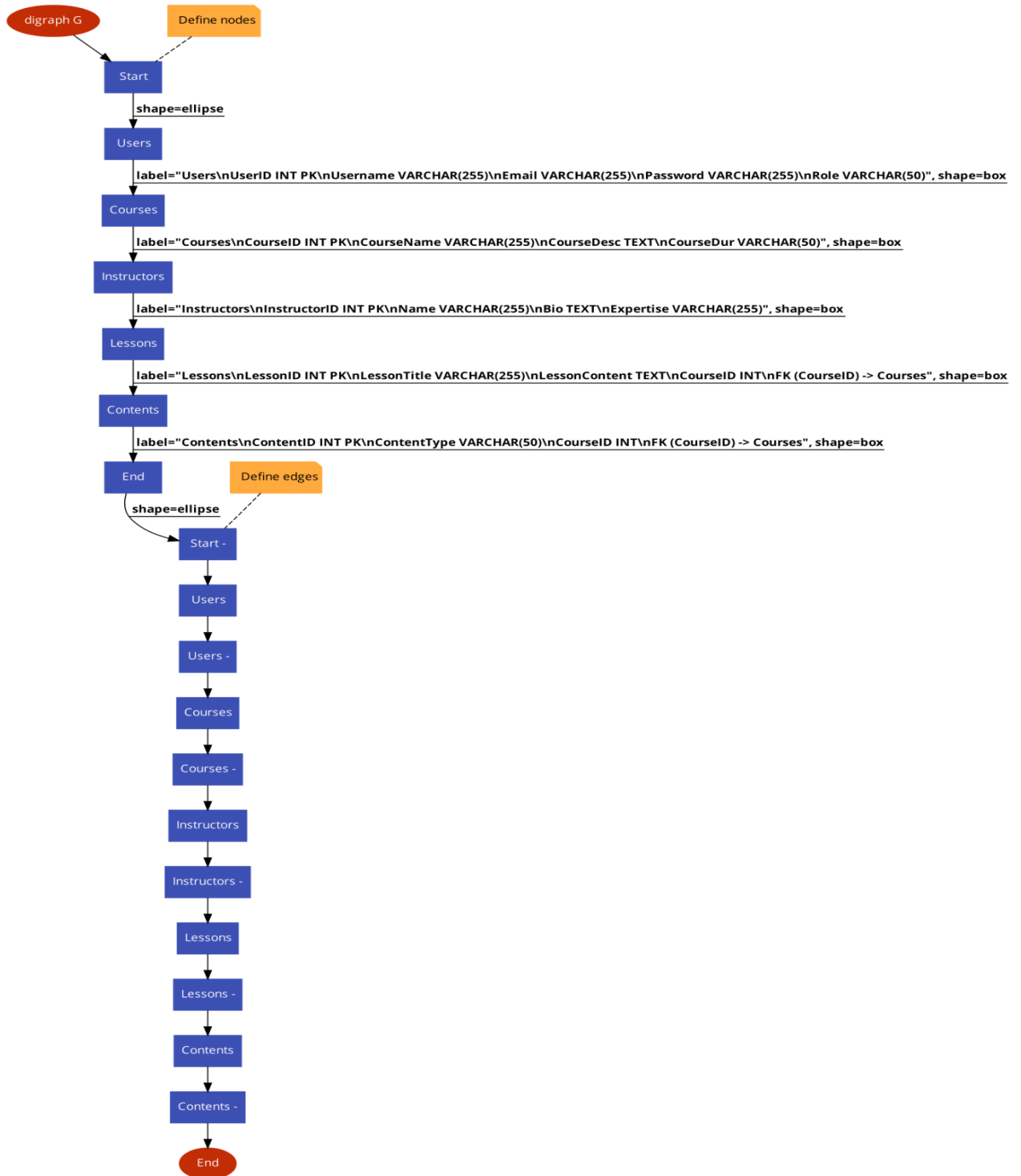
- e. Integrate collaboration tools and communication channels to foster interaction and engagement among learners, instructors, and administrators.
- f. Ensure scalability and security of the platform to accommodate a growing user base and protect sensitive data.

5. Proposed Solution:

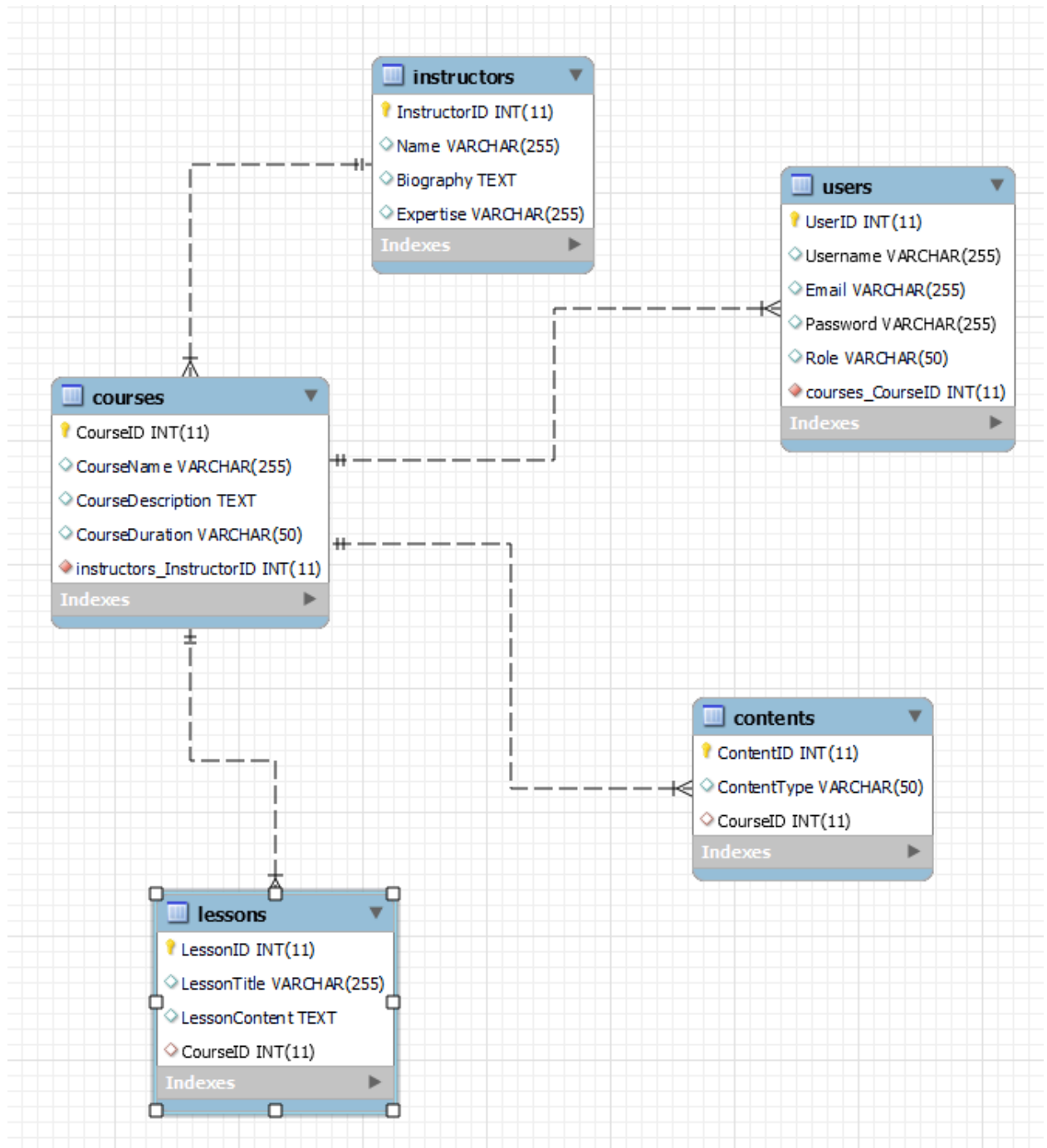
The proposed solution is to develop a comprehensive LMS with CMS capabilities under our startup name "Earn a Career." This platform will be a web-based application accessible from various devices and platforms, offering a user-friendly interface for learners, instructors, and administrators. By leveraging the features of MasterStudy Pro, the platform will benefit from advanced functionalities and a robust architecture.

The LMS component will provide features such as course creation and management, learner enrollment and progress tracking, assessment and grading tools, and interactive learning resources. The CMS component will enable instructors and content creators to easily create, organize, and publish educational materials, including text, multimedia, quizzes, and assessments.

6. Flowchart:



7. ER Diagram:



8. Equipment/Software:

- Web Server (e.g., Apache, Nginx)
- Database Management System (e.g., MySQL, PostgreSQL)
- Server-side Programming Language (e.g., PHP, Python, Node.js)
- Client-side Technologies (HTML, CSS, JavaScript)
- Integrated Development Environment (IDE) (e.g., Visual Studio Code, PhpStorm)
- Version Control System (e.g., Git)

- Project Management Tools (e.g., Trello, Jira)
- MasterStudy Pro plugin

9. Conclusion: The "Earn a Career" project aims to develop a comprehensive Learning Management System with Content Management capabilities, leveraging the features of MasterStudy Pro. By addressing the identified problems and meeting the stated objectives, this project will enhance the educational experience for learners, instructors, and administrators. The successful implementation of this project will contribute to the advancement of online education and facilitate efficient content creation and dissemination, ultimately enabling individuals to "Earn a Career" through accessible and high-quality online learning opportunities.