

## Functional Requirements

User	Definition
Anonymous user	User that has no identity on the system e.g. visitor.
Student	User identified as a Student on the system (limited privileges).
Admin	User Identified as a Teacher or the manager of the system (has All privileges).

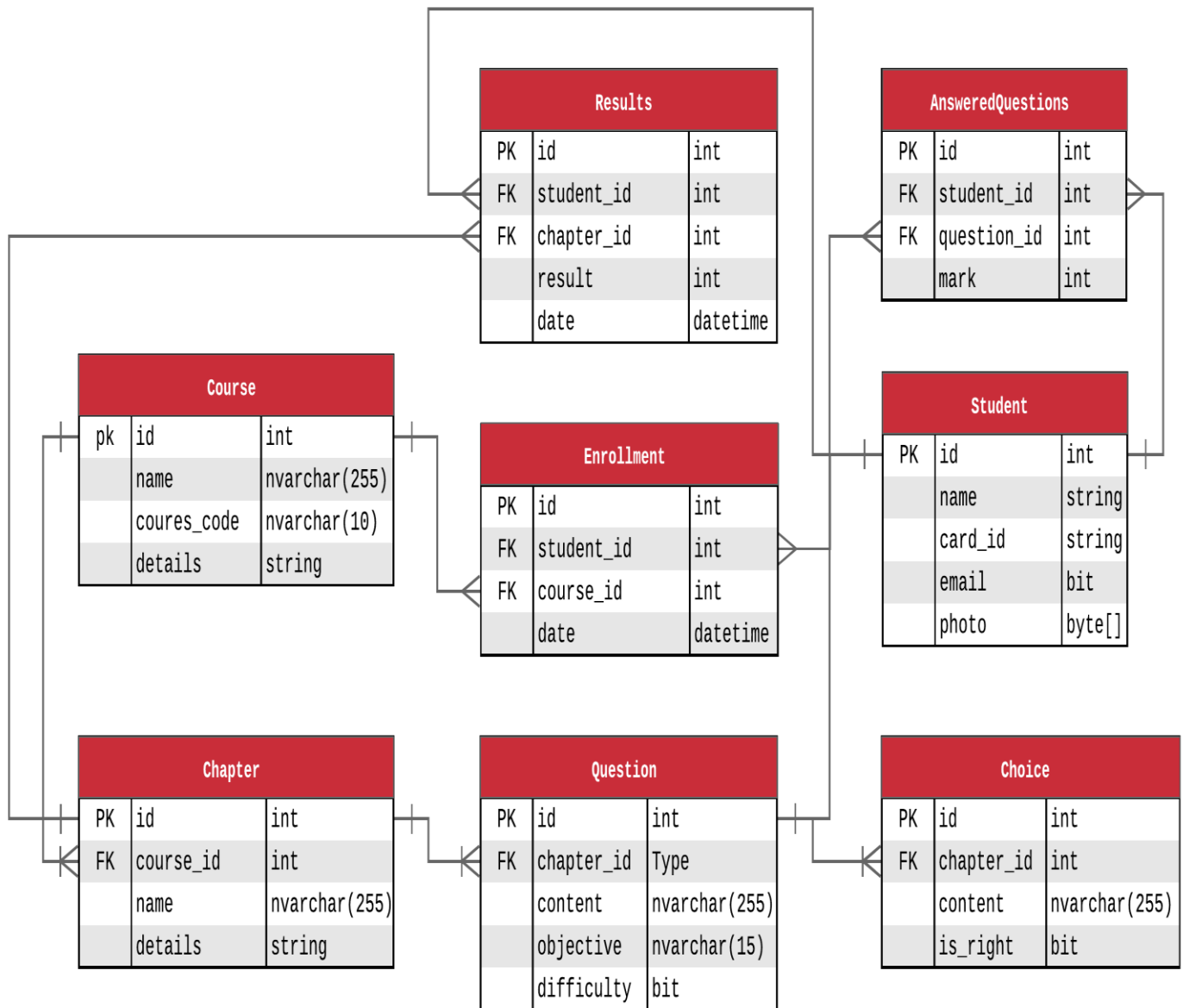
Functional Requirements	User	Description
Register	Anonymous user	Register as a student
Login	Anonymous user	Login as anonymous user
Forget Password	Anonymous user	Request reset password link
Confirm Email Address	Student	Confirm that email address already exists
Add Course	Admin	Add a new course
Edit Course	Admin	Edit an existing course
Remove Course	Admin	Remove existing course
Add Chapter	Admin	Add a new chapter into course
Edit Chapter	Admin	Edit an existing course
Remove Chapter	Admin	Remove an existing course
Add Question	Admin	Add a new question
Edit Question	Admin	Edit an existing question
Remove Question	Admin	Remove an existing question
Filter Questions	Admin, Students	Filter Questions according to difficulty or objectives
Add Choices	Admin	Add a new choice
Edit Choices	Admin	Edit a new choice
Remove Choices	Admin	Remove an existing choice
Start Exam	Student	Start a new exam session
Submit Exam	Student	Submit Exam Answers
Show Result	Admin, Students	Show Exam Result
Show All Results	Admin	Show Exam Results for all students
View Student Profile	Admin, Students	Show Student Profile

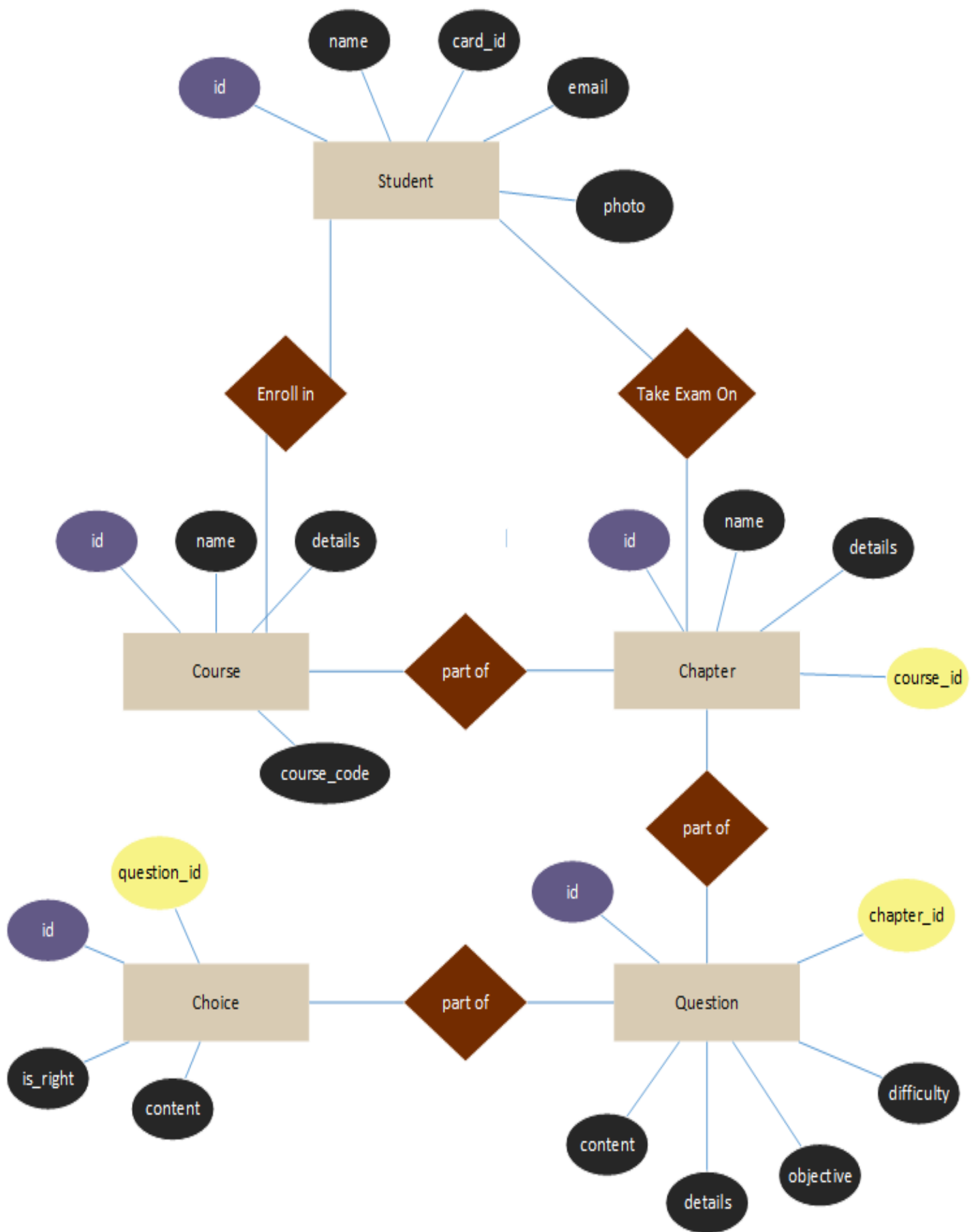
## Non Functional Requirements

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- Names can't be numbers.
- Names can't Exceed **255** character.
- Required string fields can't be empty or whitespaces.
- Ids should be a positive integer number starting with zero.
- Ids should be unique for each entry.
- Each Chapter should have Exactly **12 Questions**.
- Each Question can have maximum of **3 choices**.
- The right choice cannot exceed 1.
- Questions has 3 types: Reminding, understanding, Creativity.
- Questions has two levels of difficulty: easy, difficult.
- All types of questions must be included equally in the exam.
- Choose to make exam available or not.
- If exam questions is below 12, then it cannot be available yet.
- Teacher can't add anything if the previous dependencies are not satisfied.  
E.g. adding chapter for a non-existing course.
- Student have to be enrolled in the course before taking the exam.

# Entity Relationship Diagram





# Use Case Diagram

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