



**IT314: Software Engineering**  
**Group 16**  
**Identify Entity/Boundary/Control Objects**

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## Entity Objects

Entity objects represent the core business data in the system. They are responsible for holding persistent information and maintaining the rules around that data.

1. User
  - Represents A generalized user of the system (e.g., Admin, Examiner, Student).
2. Admin
  - Represents: An administrator with system-wide privileges.
3. Examiner
  - Represents: An individual responsible for creating and managing exams.
4. Student
  - Represents: A student who takes exams on the platform.
5. Question
  - Represents: An individual question in the question bank, used to populate exams.
6. Category
  - Represents: A category or subject area for organizing questions.
7. Exam
  - Represents: An Exam containing list of questions.

## Boundary Objects

Boundary objects act as the interface between the system and external users. They manage user inputs, outputs, and system interactions.

1. Admin Login Form
  - Represents: The login form used by the admin to enter login credentials.
2. Examiner Creation Form
  - Represents: The interface for creating examiner accounts.
3. Student Management Interface
  - Represents: The admin interface for managing student accounts.
4. Question Bank Interface
  - Represents: The interface for managing the question bank.
5. Password Reset Form
  - Represents: The interface for initiating a password reset request.
6. Password Reset Confirmation
  - Represents: The feedback screen confirming the status of a password reset attempt.

## Control Objects

Control objects manage the logic and flow between the Entity and Boundary objects. They handle system processes and make decisions based on inputs and business rules.

1. Authentication Controller
  - Represents: The control object that handles user authentication (primarily for admin logins).
2. Examiner Controller
  - Represents: The controller responsible for managing examiner accounts.
3. Student Controller
  - Represents: The controller that manages student accounts.
4. Question Bank Controller
  - Represents: The controller responsible for managing the question bank.
5. Password Reset Controller
  - Represents: The controller that oversees the password reset process.