

# CRC Card

**Definition:**

Entities represent data objects

Controllers manage application logic and user interactions.

Test type refers to classes or components designed exclusively for testing purposes

Concrete type denotes classes providing specific implementation details within the application.

Class	ID	Type	Description	Association	Responsibilities	Collaborators	Attributes	Generalization	Aggregation	Dependency
User	01	Test	Represents a user of the system.	Profile	Manages user data and interactions within the system.	Profile, Post, Comment	Username Email Password (encrypted) Profile Picture		Profile	Database
Post	02	Entity	Represents a single post in the system.	User	Manages post content and interactions.	User, Comment, Like	Title Content Date Created Author (UserID or Username)		Image, Content, Comment, Like	Database
Comment	03	Concrete	Represents a comment on a post.	User, Post	Manages comments associated with posts.	User, Post	CommentID Content Date Posted Author (UserID or Username)			Database
Feed	04	Controller	Manages the display and interaction of posts in the feed.	User, Post, Database	Handles the display and interaction of posts.	User, Post, Database	PageSize, ImageSizeLimit		Post	Database
Profile	05	Entity	Represents a user profile.	User	Stores and manages user profile information.	User, Database	UserID FirstName LastName Email Bio			Database
Database	06	Entity	Stores and retrieves data for users, posts, and comments.	User, Post, Comment	Stores and retrieves data for the system.	User, Post, Comment	DatabaseName ServerAddress PortNumber			-
Image	07	Concrete	Represents image data.	Post, Database	Handles storage and retrieval of image data.	Post, Database	ImageID FileName FileSize			Database
Password	08	Concrete	Manages user password encryption and storage.	User	Encrypts and stores user passwords securely.	User, Database	UserID EncryptedPassword LastPasswordChangeDate			Database, User
Credential	09	Entity	Manages user credentials for authentication.	User	Validates and manages user credentials.	User, Database	CredentialID Username LastLoginDate		Email, Password	Database
Like	10	Concrete	Represents a like on a post.	User, Post	Manages likes associated with posts.	User, Post	LikeID PostID UserID			Database
Screen	11	Test	Represents a screen in the user interface.	-	Handles display and user interaction on screens.	-	ScreenID ScreenTitle ScreenSize	Profile, Feed		-
Memory	12	Entity	Manages memory allocation and usage.	-	Manages memory allocation and usage within the system.	-	TotalMemory FreeMemory UsedMemory			-
Algorithm	13	Concrete	Implements algorithms for data processing.	Password	Implements various algorithms for data processing.	-	AlgorithmID AlgorithmName Complexity			-
Criteria	14	Entity	Defines criteria or rules for validating data or behavior.	Credentials	Defines criteria or rules for validating data.	-	CriteriaID CriteriaName CriteriaDescription			-
Content	15	Entity	Represents textual or multimedia content.	Post, Comment, Database	Represents textual or multimedia content within the system.	Post, Comment, Database	ContentID ContentType ContentData			Database
Email	16	Concrete	Represents an email address used for user identification	User	Identifies users within the system.	User	Value, Domain			User, Database
Search	17	Concrete	Facilitates searching for specific content or data	User	searches among the list of users in the database	User, Algorithm, Database	searchID, searchText			User, Database