

Classes: user, item, category,
order,review,message,contact message, cart
CRC (Class-Responsibility-Collaboration card) for
DataBase Classes:

Class name: User	
Class Data:	Class Collaborations (other classes):
<ul style="list-style-type: none"> • Id • Username • Email • Password • Phone number • Address • Messages_sent [Foreign Key] • Messages_recieved [Foreign Key] 	<ul style="list-style-type: none"> • Item • Order • Reviews • Message • Cart
Class Responsibilities :	
<ul style="list-style-type: none"> • Define a user • Contain all user information • Link the user to the messages they sent/received • Link the user and the orders they made • Contain all the items the user is offering to sell • Links the user with their cart • Links the user with the reviews they wrote • Saves user information to sign up/log in 	

Class name: Item	
Class Data:	Class Collaborations (other classes):
<ul style="list-style-type: none"> • Id • Name • Description • Price • Image • Quantity • Rate • User Id [Foreign Key] • Category Id [Foreign Key] 	<ul style="list-style-type: none"> • Reviews • Cart • User • Category
Class Responsibilities :	
<ul style="list-style-type: none"> • Displays/Saves the item's information • Links each item to the seller user • Saves the rate for each item for the trading • Links the item to the reviews written on it • Links the item to the buyers' carts it might be in 	

Class name: Category	
Class Data:	Class Collaborations (other classes):
<ul style="list-style-type: none"> • Id • Name 	<ul style="list-style-type: none"> • Item
Class Responsibilities :	
<ul style="list-style-type: none"> • Contains the categories • Enables filtering of items depending on the category 	

Class name: Order	
Class Data:	Class Collaborations (other classes):
<ul style="list-style-type: none"> • Id • Date • Item_id [Foreign Key] • Buyer_id [Foreign Key] • 	<ul style="list-style-type: none"> • Item • User
Class Responsibilities :	
<ul style="list-style-type: none"> • Displays/Saves the order's information • Links the order to the buyer using the buyer's id • Links the order to the items being ordered 	

Class name: Review	
Class Data:	Class Collaborations (other classes):
<ul style="list-style-type: none"> • Id • Content • Rating • Item_id [Foreign Key] • User_id [Foreign Key] 	<ul style="list-style-type: none"> • Item • User
Class Responsibilities :	
<ul style="list-style-type: none"> • Includes the information of each review for each item • Links each review to the item being reviewed • Links each review with the reviewer's id 	

Class name: Message	
Class Data:	Class Collaborations (other classes):
<ul style="list-style-type: none"> • Id • Sender's Id [Foreign Key] • Receiver's Id [Foreign Key] • Content • Timestamp 	<ul style="list-style-type: none"> • Uer
Class Responsibilities :	
<ul style="list-style-type: none"> • Saves the messages between 2 users • Links each message with the sender's id and receiver's id 	

Class name: Contact Message	
Class Data:	Class Collaborations (other classes):
<ul style="list-style-type: none"> • Id • Name • Email • Message • Timestamp • 	
Class Responsibilities :	
<ul style="list-style-type: none"> • The class saves messages sent from users to us • Saves the name,email of the sender 	

Class name: Cart	
Class Data:	Class Collaborations (other classes):
<ul style="list-style-type: none"> • Id • Total_payment • User_id [Foreign Key] • Item_id [Foreign Key] 	<ul style="list-style-type: none"> • Item • User
Class Responsibilities :	
<ul style="list-style-type: none"> • The cart contains the items the buyer user intends to buy • Links the cart to its user using user_id • Links the items to the multiple carts they might be in 	