People (user)

Front

Class name: People (user)	**ID:** 1	**Type:** Concrete, Domain
Description: An individual who has an account in CarBaMa		**Associated use cases:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23

Responsibilities:	**Collaborators:**
1- LogIn() **2-** LogOut() **3-** Represent() **4-** SignUp() **5-** Search()	**1-** Manager **2-** Admin **3-** Expert **4-** Seller **5-** Buyer

Back

Attributes:

1. ID: int
2. Name: string
3. PhoneNumber: int
4. EmailAddress: string
5. Role: string
6. Location
7. FinancialInformation
8. Username: string
9. Password: string

Relationships

Generalization (a-kind-of):	
Aggregation (has-parts):	
Other Association:	(specialization: Admin, Manager, Expert, Seller, Buyer)

Manager

Front

Class name: Manager	**ID:** 2	**Type:** Concrete, Domain
Description: Someone or some people who oversee the entire CraBaMa team may also be the platform's owner or could be policymakers		**Associated use cases:** 1, 2, 4, 8, 10, 14, 15, 16, 17, 18, 19, 20

Responsibilities:	**Collaborators:**
1- PolicyMaking() **2-** ViewReports() **3-** Report Analysis() **4-** TransactionManagement() **5-** UserManagement() **6-** UserUpdate() **7-** UserDeletion()	**1-** People (user) **2-** Advertisement **3-** Content **4-** Transaction

Back

Attributes:

1- EmployeeID: int
2- AccessCode: string
3- JobTitle: string

Relationships	
Generalization (a-kind-of):	People (user)
Aggregation (has-parts):	
Other Association:	Advertisement, Content, Transaction

Admin

Front

Class name: Admin	**ID:** 3	**Type:** Concrete, Domain
Description: A person or group of people who are responsible for configuring and managing the entire infrastructure, including all of the hardware, software, and systems that are necessary to support the running of the business, plus providing reasonable reports for managers		**Associated use cases:** 1, 2, 3, 4, 8, 9, 10, 11, 12, 13, 15, 18, 19, 20, 21, 22

Responsibilities:	**Collaborators:**
1- ProfileManagement() **2-** AdsManagement() **3-** SubscriptionManagement() **4-** SubscriptionPurchase() **5-** SubscriptionUpdate() **6-** ViewReports() **7-** UserManagement() **8-** UserUpdate() **9-** UserDeletion() **10-** ReportManagment() **11-** AccessLevel()	**1-** People (user) **2-** Seller **3-** Buyer **4-** Advertisement **5-** Content **6-** Vehicle

Back

Attributes:

1- EmployeeID: int
2- AccessCode: string
3- AdminType: string

Relationships	
Generalization (a-kind-of):	People (user)
Aggregation (has-parts):	
Other Association:	Seller, Buyer, Advertisement, Content, Vehicle

Expert

Front

Class name: Expert	**ID:** 4	**Type:** Concrete, Domain
Description: Depending on their field of specialization, technical experts manage the CarBaMa application and solve technology issues, while sales experts engage with buying and selling issues with customers or even provide reports for the admin, manager, etc.		**Associated use cases:** 1, 2, 3, 4, 8, 10, 17, 23
Responsibilities: **1-** TransactionManagement() **2-** MarketAnalysis()		**Collaborators:** **1-** People (user) **2-** Content **3-** Advertisement

Back

Attributes: **1-** EmployeeID: int **2-** AccessCode: string **3-** FieldOfSpecialization: int **4-** Salary: int	
Relationships	
Generalization (a-kind-of):	People (user)
Aggregation (has-parts):	
Other Association:	Content, Advertisement

Seller

Front

Class name: Seller	**ID:** 5	**Type:** Concrete, Domain
Description: A person who offers a vehicle in return for payment		**Associated use cases:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13

Responsibilities:	**Collaborators:**
1- ProfileManagement() **2-** PaymentServices() **3-** Deposit() **4-** Withdraw() **5-** AdsManagement() **6-** SubscriptionManagement() **7-** SubscriptionPurchase() **8-** SubscriptionUpdate()	**1-** People (user) **2-** Advertisement **3-** Vehicle **4-** Transaction

Back

Attributes:

1- ActiveStatus: boolean
2- SubscriptionPlan: int
3- SumAmountOfTransactions: int
4- NumberOfActiveAds: int
5- Ranking: int
6- WalletCredit: int

Relationships

Generalization (a-kind-of):	People (user)
Aggregation (has-parts):	
Other Association:	Advertisement, Vehicle, Transaction

Buyer

Front

Class name: Buyer	**ID:** 6	**Type:** Concrete, Domain
Description: An individual who purchases or agrees to buy a vehicle.		**Associated use cases:** 1, 2, 3, 4, 5, 6, 7, 8, 10, 11, 12, 13

Responsibilities:	**Collaborators:**
1- ProfileManagement() **2-** PaymentServices() **3-** Deposit() **4-** Withdraw() **5-** SubscriptionManagement() **6-** SubscriptionPurchase() **7-** SubscriptionUpdate()	**1-** People (user) **2-** Advertisement **3-** Vehicle **4-** Transaction

Back

Attributes:

1- ActiveStatus: boolean
2- SubscriptionPlan: int
3- SumAmountOfTransactions: int
4- NumberOfWatchListAds: int
5- Ranking: int
6- WalletCredit: int

Relationships

Generalization (a-kind-of):	People (user)
Aggregation (has-parts):	
Other Association:	Advertisement, Vehicle, Transaction

Content

Front

Class name: Content	**ID:** 7	**Type:** Concrete, Domain
Description: The process of generating strategic ideas, exporting transaction statistics, conducting market analysis, and predicting trends		**Associated use cases:** 14, 15, 16, 17, 21
Responsibilities: **1-** InformPeople()		**Collaborators:** **1-** Admin **2-** Manager **3-** Expert

Back

Attributes: **1-** ContentID: int **2-** WriterID: int **3-** ContentType: string **4-** Topic: string **5-** Context: string **6-** NumberOfWords: int **7-** TimeToRead: int **8-** ConfidentialityCode: int **9-** TargetAudienceCode: int **10-** PublishedDate: date	
Relationships	
Generalization (a-kind-of):	
Aggregation (has-parts):	
Other Association:	Admin, Manager, Expert

Advertisement

Front

Class name: Advertisement	**ID:** 8	**Type:** Concrete, Domain
Description: Publish promotes and latest offers, submitted in CarBaMa		**Associated use cases:** 4, 9, 10

Responsibilities:	**Collaborators:**
1- PublishOffers()	**1-** Vehicle **2-** Manager **3-** Admin **4-** Expert **5-** Seller **6-** Buyer

Back

Attributes:

1- AdID: int
2- AdvertiserID: int
3- AdType: string
4- Topic: string
5- Context: string
6- NumberOfWords: int
7- TimeToRead: int
8- ConfidentialityCode: int
9- MediaFormat: string
10- PublishedDate: date
11- ExpirationDate: date

Relationships

Generalization (a-kind-of):	
Aggregation (has-parts):	
Other Association:	Vehicle, Admin, Manager, Expert, Seller, Buyer

Vehicle

Front

Class name: Vehicle	**ID:** 9	**Type:** Concrete, Domain
Description: A machine that transports people or cargo, which is going to be sold in CarBaMa and is one of the most important objects		**Associated use cases:** 4, 5, 6, 7, 9, 10, 23
Responsibilities: **1-** RepresentSpecifications()		**Collaborators:** **1-** Admin **2-** Seller **3-** Buyer **4-** Transaction **5-** Advertisement

Back

Attributes:

1- VIN: int
2- ManufacturerName: string
3- Model: string
4- VehicleType: string
5- VehicleColor: string
6- NumberOfWheels: int
7- Price: int
8- SeatingCapacity: int
9- MaximumVelocity: int
10- Mileage: int
11- Year: date

Relationships	
Generalization (a-kind-of):	
Aggregation (has-parts):	
Other Association:	Admin, Seller, Buyer, Transaction, Advertisement

Transaction

Front

Class name: Transaction	**ID:** 10	**Type:** Concrete, Domain
Description: An agreement to buy a car or purchase services such as subscription plans, premium features, and so on in return for money		**Associated use cases: 3,** 5, 6, 7, 11, 12, 13, 17, 23
Responsibilities: **1-** SendingInfoToPaymentGateway() **2-** ReceivingInfoFromGateway() **3-** ManageTransactions()		**Collaborators:** **1-** Manager **2-** Expert **3-** Seller **4-** Buyer **5-** Vehicle

Back

Attributes:

1- TransactionID: int
2- TransactionTypeCode: int
3- SenderID: int
4- ReceiverID: int
5- CardNumber: string
6- Address: string
7- Currency: string
8- Amount: int
9- Reason: string
10- Date: date

Relationships

Generalization (a-kind-of):	
Aggregation (has-parts):	
Other Association:	Manager, Expert, Seller, Buyer, Vehicle