

Business Objects

Aplicações na Web

Grupo 30:

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User

```
{
  "title": "User",
  "type": "object",
  "properties": {
    "id": {
      "type": "string",
      "description": "The unique identifier for the user."
    },
    "username": {
      "type": "string",
      "description": "The username of the user."
    },
    "email": {
      "type": "string",
      "format": "email",
      "description": "The email address of the user."
    },
    "firstName": {
      "type": "string",
      "description": "The first name of the user."
    },
    "lastName": {
      "type": "string",
      "description": "The last name of the user."
    },
    "dateOfBirth": {
      "type": "string",
      "format": "date",
      "description": "The date of birth of the user."
    },
    "address": {
      "type": "object",
      "properties": {
        "street": {
          "type": "string",
          "description": "The street address of the user."
        },
        "city": {
          "type": "string",
          "description": "The city of the user."
        },
        "state": {
```

```

        "type": "string",
        "description": "The state of the user."
    },
    "postalCode": {
        "type": "string",
        "description": "The postal code of the user."
    },
    "country": {
        "type": "string",
        "description": "The country of the user."
    }
},
"required": ["street", "city", "state", "postalCode", "country"]
},
"phoneNumber": {
    "type": "string",
    "description": "The phone number of the user."
},
"dateCreated": {
    "type": "string",
    "format": "date-time",
    "description": "The date the user account was created."
}
},
"required": [
    "username",
    "email",
    "password",
    "firstName",
    "lastName",
    "dateOfBirth",
    "address",
    "phoneNumber",
    "userType",
    "dateCreated"
]
}

```

Auction

```
{
  "title": "Auction",
  "type": "object",
  "properties": {
    "id": {
      "type": "string",
      "description": "The unique identifier for the auction."
    },
    "itemId": {
      "type": "string",
      "description": "The unique identifier of the item being auctioned."
    },
    "sellerId": {
      "type": "string",
      "description": "The unique identifier of the seller."
    },
    "startTime": {
      "type": "string",
      "format": "date-time",
      "description": "The start time of the auction."
    },
    "endTime": {
      "type": "string",
      "format": "date-time",
      "description": "The end time of the auction."
    },
    "minBid": {
      "type": "number",
      "description": "The minimum bid for the auction."
    },
    "currentBid": {
      "type": "number",
      "description": "The current highest bid for the auction."
    },
    "status": {
      "type": "string",
      "description": "The status of the auction (upcoming, live,
closed).",
      "enum": ["upcoming", "live", "closed"]
    }
  },
  "required": [
    "itemId",
    "sellerId",
    "startTime",
    "endTime",
    "minBid",
    "status"
  ]
}
```

Item

```
{
  "title": "Item",
  "type": "object",
  "properties": {
    "id": {
      "type": "string",
      "description": "The unique identifier for the item."
    },
    "name": {
      "type": "string",
      "description": "The name of the item."
    },
    "description": {
      "type": "string",
      "description": "A detailed description of the item."
    },
    "category": {
      "type": "string",
      "description": "The category of the item."
    },
    "condition": {
      "type": "string",
      "description": "The condition of the item (new, used).\"
    },
    "startingPrice": {
      "type": "number",
      "description": "The starting price for the item.\"
    },
    "sellerId": {
      "type": "string",
      "description": "The unique identifier of the seller.\"
    },
    "dateAdded": {
      "type": "string",
      "format": "date-time\",
      "description": "The date the item was added.\"
    },
    "images": {
      "type": "array\",
      "description": "An array of images related to the item.\",
      "items": {
        "type": "object\",
        "properties": {
          "id": {
            "type": "string\",
            "description": "The unique identifier for the image.\"
          },
          "itemId": {
            "type": "string\",
            "description": "The unique identifier of the item the image
is associated with.\"
          },
          "url": {
            "type": "string\",
            "format": "uri\",
            "description": "The URL of the image.\"
          }
        }
      }
    }
  }
}
```

```
    }
  },
  "required": [
    "id",
    "itemId",
    "url"]
  }
},
"required": [
  "name",
  "description",
  "category",
  "condition",
  "startingPrice",
  "sellerId"]
}
```

Notification

```
{
  "title": "Notification",
  "type": "object",
  "properties": {
    "id": {
      "type": "string",
      "description": "The unique identifier for the notification."
    },
    "userId": {
      "type": "string",
      "description": "The unique identifier of the user receiving the
notification."
    },
    "type": {
      "type": "string",
      "description": "The type of notification (e.g., bid_placed,
auction_won, auction_ending).",
      "enum": ["bid_placed", "auction_won", "auction_ending"]
    },
    "message": {
      "type": "string",
      "description": "The message content of the notification."
    },
    "relatedObjectId": {
      "type": "string",
      "description": "The unique identifier of the related object (e.g.,
auction or item)."
    },
    "timestamp": {
      "type": "string",
      "format": "date-time",
      "description": "The timestamp when the notification was created."
    },
    "read": {
      "type": "boolean",
      "description": "Indicates if the notification has been read by the
user."
    }
  },
  "required": [
    "userId",
    "type",
    "message",
    "relatedObjectId",
    "timestamp",
    "read"
  ]
}
```

Payment

```
{
  "title": "Payment",
  "type": "object",
  "properties": {
    "id": {
      "type": "string",
      "description": "The unique identifier for the payment."
    },
    "auctionId": {
      "type": "string",
      "description": "The unique identifier of the auction related to the
payment."
    },
    "itemId": {
      "type": "string",
      "description": "The unique identifier of the item being paid for."
    },
    "payerId": {
      "type": "string",
      "description": "The unique identifier of the payer (buyer).\"
    },
    "payeeId": {
      "type": "string",
      "description": "The unique identifier of the payee (seller).\"
    },
    "paymentMethod": {
      "type": "string",
      "description": "The payment method used (e.g., credit card, PayPal,
bank transfer).\"
    },
    "paymentStatus": {
      "type": "string",
      "description": "The status of the payment (pending, completed,
failed).\",
      "enum": [\"pending\", \"completed\", \"failed\"]
    },
    "amount": {
      "type": \"number\",
      \"description\": \"The amount of the payment.\"
    },
    "currency": {
      "type": \"string\",
      \"description\": \"The currency of the payment.\"
    },
    "transactionDate": {
      "type": \"string\",
      \"format\": \"date-time\",
      \"description\": \"The date of the transaction.\"
    }
  },
  \"required\": [
    \"auctionId\",
    \"itemId\",
    \"payerId\",
    \"payeeId\",
    \"paymentMethod\",
```

```
    "paymentStatus",  
    "amount",  
    "currency",  
    "transactionDate"  
  ]  
}
```


Shipping

```
{
  "title": "Shipping",
  "type": "object",
  "properties": {
    "id": {
      "type": "string",
      "description": "The unique identifier for the shipping."
    },
    "itemId": {
      "type": "string",
      "description": "The unique identifier of the item being shipped."
    },
    "auctionId": {
      "type": "string",
      "description": "The unique identifier of the auction related to the
shipping."
    },
    "sellerId": {
      "type": "string",
      "description": "The unique identifier of the seller."
    },
    "method": {
      "type": "string",
      "description": "The shipping method (standard, expedited, pickup)."
    },
    "carrier": {
      "type": "string",
      "description": "The shipping carrier (e.g., UPS, FedEx, USPS)."
    },
    "trackingNumber": {
      "type": "string",
      "description": "The tracking number for the shipment."
    },
    "shippingCost": {
      "type": "number",
      "description": "The shipping cost."
    },
    "deliveryEstimate": {
      "type": "string",
      "format": "date-time",
      "description": "The estimated delivery date."
    },
    "status": {
      "type": "string",
      "description": "The status of the shipping (pending, shipped,
delivered).",
      "enum": ["pending", "shipped", "delivered"]
    }
  },
  "required": [
    "itemId",
    "auctionId",
    "sellerId",
    "method",
    "carrier",
    "shippingCost",

```

```
    "deliveryEstimate",  
    "status"  
  ]  
}
```