

HoopsLink: Custom Coaching & Gear Hub

User Views(1-6)

This user view is pivotal for maintaining and accessing comprehensive profiles of HoopsLink customers. It enables administrative users to view personal details, contact information, and addresses, providing a centralized hub for managing customer interactions. The interface is designed to ease updating records, ensuring that communications, marketing, and service delivery are always targeted and efficient.

1. Customer Profile Management

HoopsLink: Custom Coaching & Gear Hub							
Customer Profile Management							
customer ID	customer Name	customer Address	city	state	zip	email	phoneNumber
1	John Doe	123 Maple St	Anytown	TX	75001	johndoe@email.com	123-456-7890
2	Jane Smith	456 Oak St	Othertown	NY	10001	janesmith@email.com	987-654-3210
3	Alice Johnson	789 Pine St	Hereville	CA	90001	alicej@email.com	234-567-8901
4	Bob Brown	321 Elm St	Thattown	FL	33001	bobbrown@email.com	345-678-9012
5	Carol White	654 Spruce St	Thistown	IL	60001	carolwhite@email.com	456-789-0123
6	David Green	987 Cedar St	Wheretown	TX	77001	davidgreen@email.com	567-890-1234

2. Coaching Session Scheduler

The coaching session scheduler view is an essential tool for coordinating and managing all basketball coaching sessions offered by HoopsLink. It integrates coaches' availability with customer bookings, streamlining the scheduling process. This view is instrumental in avoiding double bookings, handling rescheduling, and ensuring customers and coaches can prepare for upcoming sessions.

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Coaching Session Scheduler						
Session ID	Coach ID	Customer ID	Session Date	Session Time	Session Type	Session Fee
201	101	1	2023-11-15	15:00	Private	100.00
202	102	2	2023-11-16	16:00	Group	50.00
203	103	3	2023-11-17	17:00	Private	100.00
204	104	4	2023-11-18	18:00	Group	50.00
205	105	5	2023-11-19	19:00	Private	100.00
206	106	6	2023-11-20	20:00	Group	50.00

3. Gear Ordering System

User View 3 encompasses the gear ordering system, a comprehensive platform where customers can place orders for basketball equipment. This view displays order details, including items, quantities, and prices, and tracks the status of each order from placement to delivery, ensuring customers have a transparent view of their transactions.

HoopsLink: Custom Coaching & Gear Hub						
Gear Ordering System						
Order ID	Customer ID	Order Date	Item Code	Item Name	Quantity	Item Price
301	1	2023-11-21	401	Basketball	2	29.99
302	2	2023-11-22	402	Sneakers	1	79.99
303	3	2023-11-23	403	Jersey	3	45.99
304	4	2023-11-24	404	Water Bottle	1	9.99
305	5	2023-11-25	405	Gym Bag	2	34.99
306	6	2023-11-26	406	Cap	1	12.99

4. Payment Processing

The payment processing view offers a secure and concise summary of all transactions within HoopsLink. It provides administrators and customers with detailed records of payments, including dates, amounts, and methods, ensuring financial clarity and aiding in the swift resolution of any billing inquiries.

HoopsLink: Custom Coaching & Gear Hub				
Payment Processing				
Payment ID	Order ID	Payment Date	Amount	Payment Method
501	301	2023-11-27	\$59.98	Credit Card
502	302	2023-11-28	\$79.99	PayPal
503	303	2023-11-29	\$137.97	Debit Card
504	304	2023-11-30	\$9.99	Credit Card
505	305	2023-12-01	\$69.98	Apple Pay
506	306	2023-12-02	\$12.99	Google Pay

5. Inventory Management

This user view is integral to the management of HoopsLink’s gear and equipment inventory. It provides real-time insights into stock levels and supplier details, enabling effective inventory control and procurement planning. This view ensures that stock replenishment aligns with demand and that customer orders can be fulfilled without delay.

HoopsLink: Custom Coaching & Gear Hub				
Inventory Management				
Item Code	Item Name	Stock Quantity	Supplier ID	Supplier Name
401	Basketball	10	501	Supplier A
402	Sneakers	15	502	Supplier B
403	Jersey	20	503	Supplier C
404	Water Bottle	30	504	Supplier D
405	Gym Bag	5	505	Supplier E
406	Cap	25	506	Supplier F

6. Performance Review Portal

The performance review portal is a crucial feedback mechanism within HoopsLink. It enables the assessment of coaches' performance through reviews and ratings, fostering a culture of excellence and improvement. Coaches can view their feedback, allowing them to celebrate their strengths and identify areas for professional development.

HoopsLink: Custom Coaching & Gear Hub				
Performance Review Portal				
Review ID	Coach ID	Review Date	Performance Score	Comments
601	101	2023-11-23	90	Excellent coaching techniques.
602	102	2023-11-24	85	Very engaging.
603	103	2023-11-25	95	Outstanding attention to detail.
604	104	2023-11-26	80	Good but needs more tactical knowledge.
605	105	2023-11-27	75	Friendly but late sessions.
606	106	2023-11-28	88	Great motivational skills.

Normalization Steps - Primary Key Foreign Key Junction Table

User View 1 - Customer Profile Management

1NF

|
| CustomerProfile(customerID, customerName, customerAddress, city, state, zip, email, phoneNumber)

| 2NF - Remove Partial Dependencies

2NF

| Customer(customerID, customerName, customerAddress, city, state, zip, email, phoneNumber)

| 3NF - Remove Transitive Dependencies

3NF

| Customer(customerID, customerName, customerAddress, city, state, zip, email, phoneNumber)

User View 2 - Coaching Session Scheduler

1NF

|
| CoachingSession(sessionID, coachID, coachName, customerID, customerName, sessionDate, sessionTime, sessionType, sessionFee)

| 2NF - Remove Partial Dependencies

2NF

| Coach(coachID, coachName)

| Session(sessionID, coachID, customerID, sessionDate, sessionTime, sessionType, sessionFee)

| Customer(customerID, customerName)

| 3NF - Remove Transitive Dependencies

3NF

| Coach(coachID, coachName)

| Session(sessionID, coachID, customerID, sessionDate, sessionTime, sessionType, sessionFee)

| Customer(customerID, customerName)

User View 3 - Gear Ordering System

1NF

|
| GearOrder(**orderID**, **customerID**, orderDate, **itemCode**, itemName, quantity, itemPrice)

| 2NF - Remove Partial Dependencies

2NF

| Order(**orderID**, **customerID**, orderDate)
| Item(**itemCode**, itemName, itemPrice)
| OrderItem(**orderID**, **itemCode**, quantity)

| 3NF - Remove Transitive Dependencies

3NF

| Order(**orderID**, **customerID**, orderDate)
| Item(**itemCode**, itemName, itemPrice)
| OrderItem(**orderID**, **itemCode**, quantity)

User View 4 - Payment Processing

1NF

|
| Payment(**paymentID**, **orderID**, paymentDate, amount, paymentMethod)

| 2NF - No Partial Dependencies to remove

2NF

| Payment(**paymentID**, **orderID**, paymentDate, amount, paymentMethod)

| 3NF - No Transitive Dependencies to remove

3NF

| Payment(**paymentID**, **orderID**, paymentDate, amount, paymentMethod)

User View 5 - Inventory Management

1NF

|
| Inventory(**itemCode**, itemName, stockQuantity, **supplierID**, supplierName)

| 2NF - Remove Partial Dependencies

2NF

| Item(**itemCode**, itemName)
| Stock(**itemCode**, stockQuantity)
| Supplier(**supplierID**, supplierName)

| 3NF - Remove Transitive Dependencies

3NF

| Item(**itemCode**, itemName)
| Stock(**itemCode**, stockQuantity)
| Supplier(**supplierID**, supplierName)

User View 6 - Payment Report

1NF

|
| PerformanceReview(**reviewID**, **coachID**, coachName, reviewDate, performanceScore, comments)

| 2NF - Remove Partial Dependencies

2NF

| Coach(**coachID**, coachName)
| Review(**reviewID**, **coachID**, reviewDate, performanceScore, comments)

| 3NF - Remove Transitive Dependencies

3NF

| Coach(**coachID**, coachName)
| Review(**reviewID**, **coachID**, reviewDate, performanceScore, comments)

Attribute Domain Matrix

Attribute	Data Type
customerID	INT
customerName	VARCHAR(100)
customerAddress	VARCHAR(255)
city	VARCHAR(50)
state	VARCHAR(50)
zip	VARCHAR(10)
email	VARCHAR(100)
phoneNumber	VARCHAR(15)
orderID	INT
orderDate	DATE
itemCode	INT
itemName	VARCHAR(100)
itemPrice	DECIMAL(10,2)
sessionID	INT
coachID	INT
coachName	VARCHAR(100)
sessionDate	DATE

sessionTime	TIME
sessionType	VARCHAR(50)
sessionFee	DECIMAL(10,2)
quantity	INT
paymentID	INT
paymentDate	DATE
amount	DECIMAL(10,2)
paymentMethod	VARCHAR(50)
stockQuantity	INT
supplierID	INT
supplierName	VARCHAR(100)
reviewID	INT
reviewDate	DATE
performanceScore	INT
comments	TEXT

Attribute-User View Matrix

Attribute	User View 1	User View 2	User View 3	User View 4	User View 5	User View 6
customerID	X	X	X			X
customerName	X	X				X
customerAddress	X					
city	X					
state	X					
zip	X					
email	X					
phoneNumber	X					
orderID	X		X			
orderDate	X		X			
itemCode	X		X		X	
itemName	X		X		X	
itemPrice	X		X		X	
sessionID		X				
coachID		X				X
coachName		X				X
sessionDate		X				
sessionTime		X				

sessionType		X				
sessionFee		X				
quantity			X			
paymentID				X		
paymentDate				X		
amount				X		
paymentMethod				X		
stockQuantity					X	
supplierID					X	
supplierName					X	
reviewID						X
reviewDate						X
performanceScore						X
comments						X