Authentication Service		
POST	/auth/login	{credentials}
POST	/auth/logout	
POST	/auth/resetpassword	{credentials}

Auction Service		
POST	/items/{itemId}/auctions	{auctionDetails}
PUT	/items/{itemId}/auctions/{auctionId}	{auctionDetails}
GET	/items/{itemId}/auctions/{auctionId}	
GET	/auctions	
POST	/items/{itemId}/auctions/{auctionId}/close	
DELETE	/items/{itemId}/auctions/{auctionId}	

Item Management		
POST	/items	{itemDetails}
PUT	/items/{itemID}	{itemDetails}
GET	/items/{itemId}	
DELETE	/items/{itemId}	
POST	/items/{itemId}/images	{image}
GET	/items/{itemId}/images	
DELETE	/items/{itemId}/images/{imageId}	
GET	/items/{itemId}/images/{imageId}	

Manage Users		
GET	/users/{userID}	
POST	/users	{userDetails}
DELETE	/users/{userID}	
GET	/users	
PUT	/users/{userID}	{userDetails}

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Notification Service		
POST	/auctions/{auctionId}/notifications	
DELETE	/auctions/{auctionId}/notifications/{userId}	
GET	/users/{userId}/notifications	

Search Service		
POST	/search/auctions	{query}
POST	/search/items	{query}

Payment Service		
POST	/auctions/{auctionId}/payments	{p_details}
GET	/auctions/{auctionId}/payments/{paymentId}	
GET	/users/{userId}/payments	

Client

Recommendation Service		
GET	/users/{userId}/recommendations/auctions	
GET	/users/{userId}/recommendations/items	

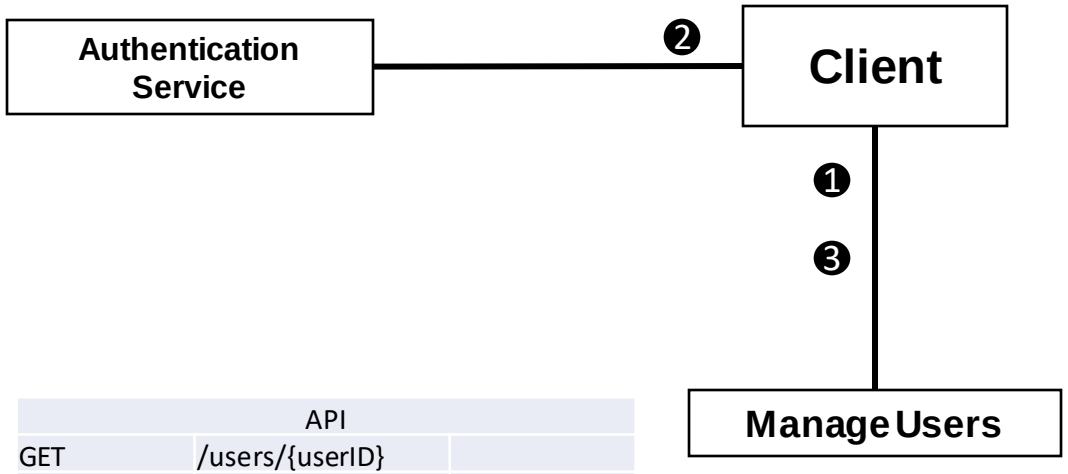
Bidding Service		
POST	/auctions/{auctionId}/bids	{bid_details}
GET	/auctions/{auctionId}/bids	
GET	/users/{userId}/bids	

Shipping Service		
POST	/items/{itemId}/shipping	{shipping_details}
GET	/items/{itemId}/shipping/{shippingOrderId}	
GET	/items/{itemId}/shipping/{shippingOrderId}/track	
PUT	/items/{itemId}/shipping/{shippingOrderId}	{shipping_details}
GET	/users/{userId}/shipping	

Analytics Service		
GET	/auctions/{auctionId}/analytics/metrics	
GET	/users/{userId}/analytics/activity	

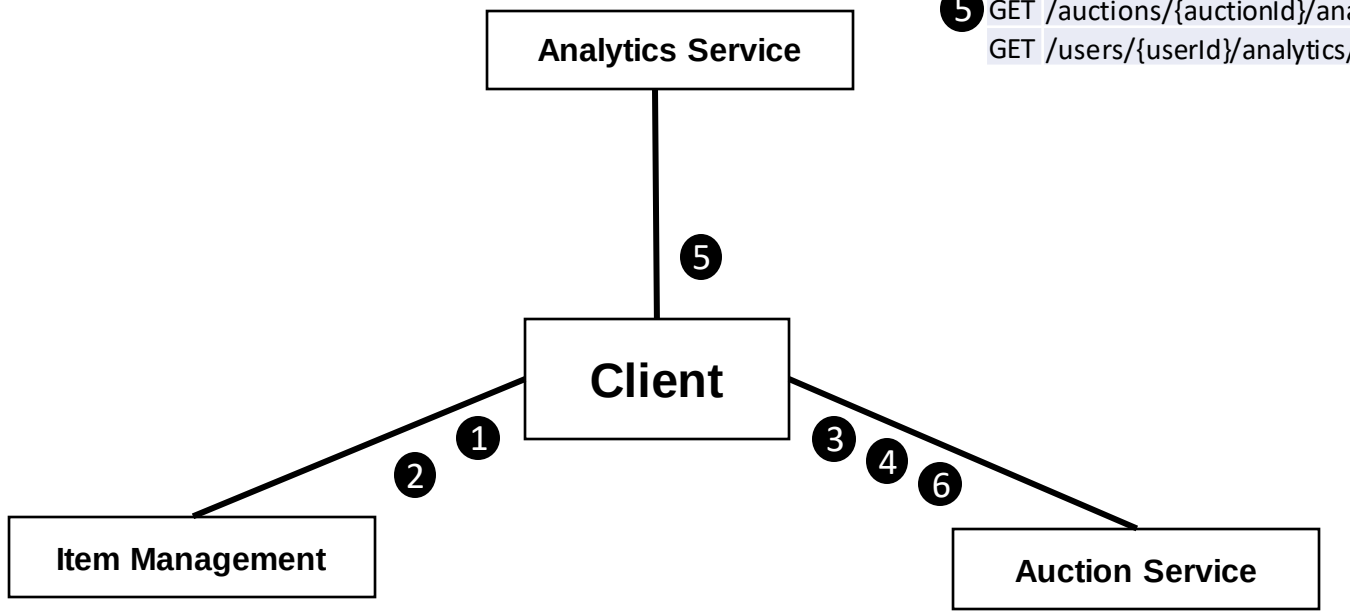
User registration, login, and profile management

	API		
❷	POST	/auth/login	{credentials}
	POST	/auth/logout	
	POST	/auth/resetpassword	{credentials}



	API		
	GET	/users/{userID}	
❶	POST	/users	{userDetails}
	DELETE	/users/{userID}	
	GET	/users	
❸	PUT	/users/{userID}	{userDetails}

Item listing, auction creation, analytics viewing and auction management

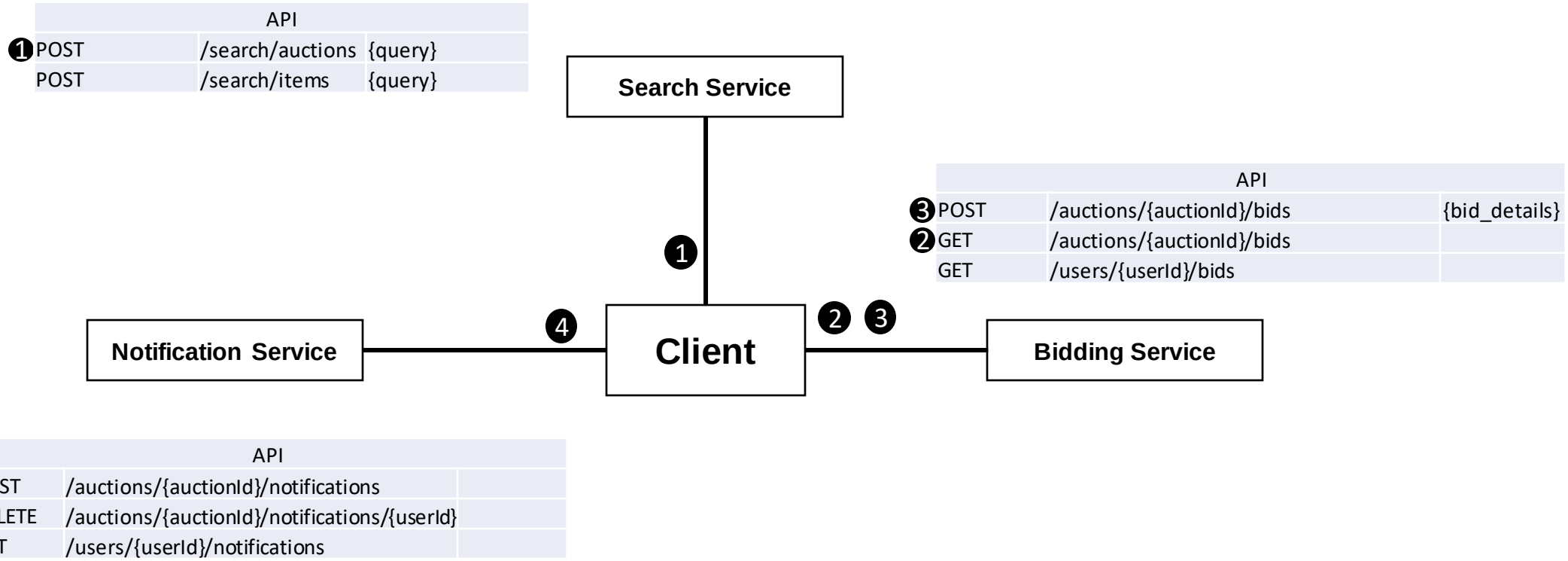


	API		
5	GET	/auctions/{auctionId}/analytics/metrics	
	GET	/users/{userId}/analytics/activity	

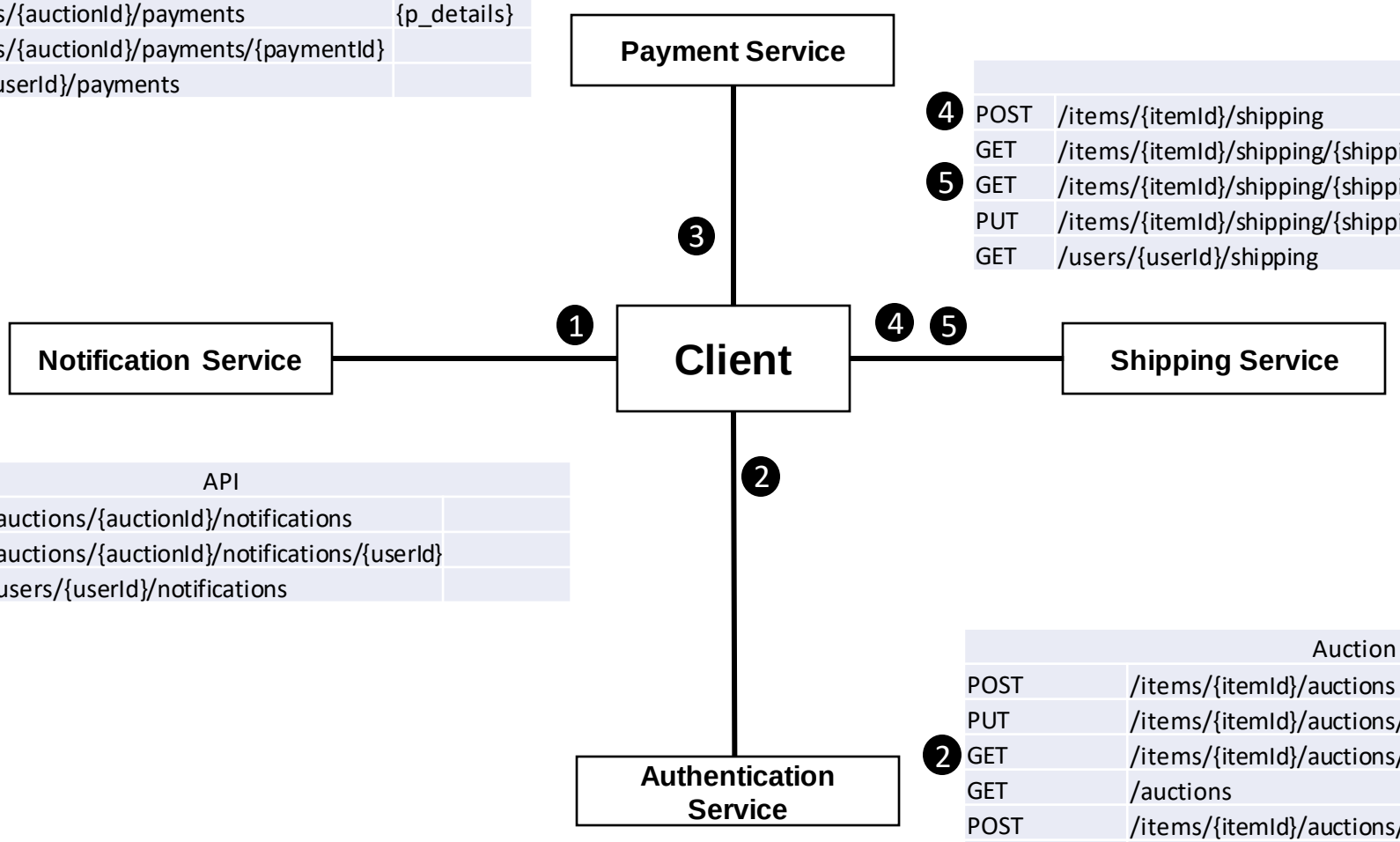
	API		
1	POST	/items	{itemDetails}
	PUT	/items/{itemID}	{itemDetails}
	GET	/items/{itemId}	
	DELETE	/items/{itemId}	
2	POST	/items/{itemId}/images	{image}
	GET	/items/{itemId}/images	
	DELETE	/items/{itemId}/images/{imageId}	
	GET	/items/{itemId}/images/{imageId}	

	API		
3	POST	/items/{itemId}/auctions	{auctionDetails}
	PUT	/items/{itemId}/auctions/{auctionId}	{auctionDetails}
4	GET	/items/{itemId}/auctions/{auctionId}	
	GET	/auctions	
6	POST	/items/{itemId}/auctions/{auctionId}/close	
	DELETE	/items/{itemId}/auctions/{auctionId}	

Finding auction, bidding and subscribing to notifications



Notification, Checking Winning auction, Payment, Shipping and order tracking



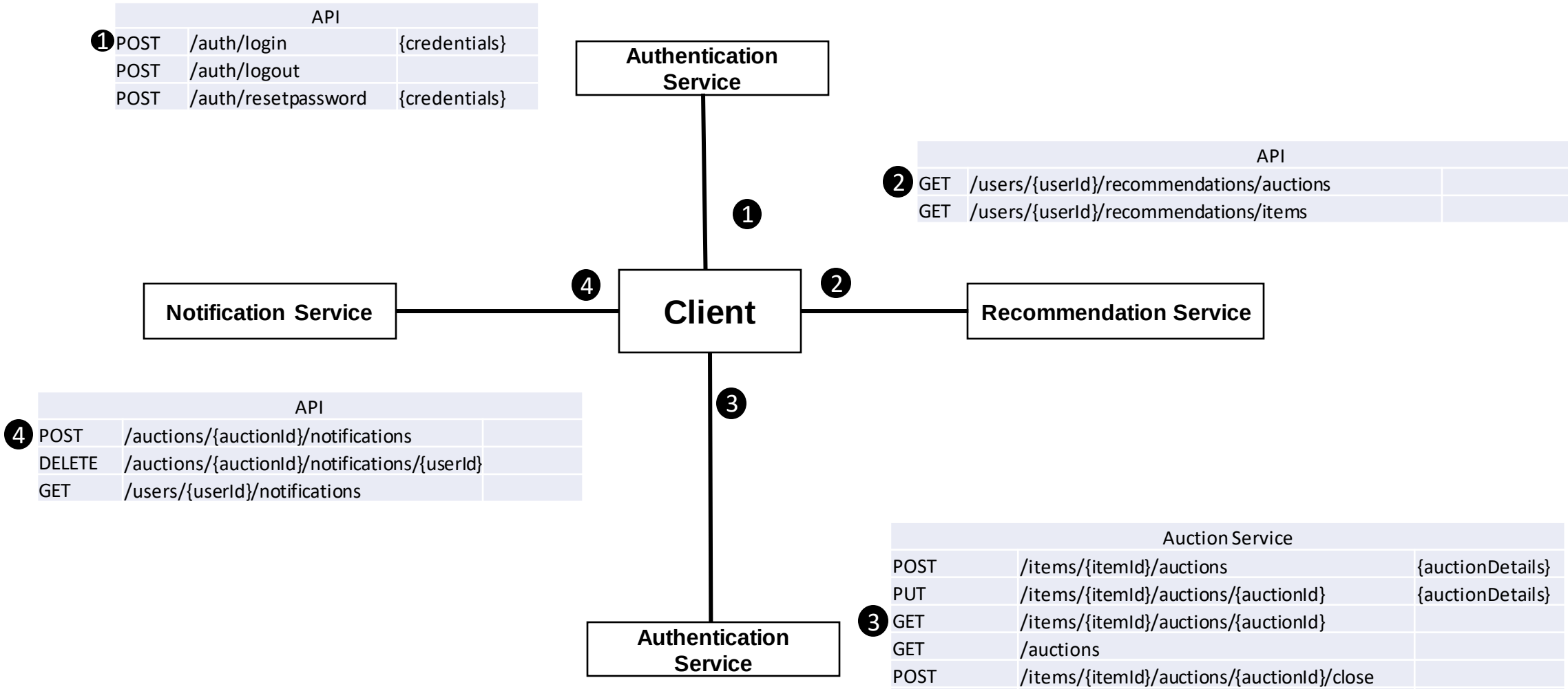
API		
3 POST	/auctions/{auctionId}/payments	{p_details}
GET	/auctions/{auctionId}/payments/{paymentId}	
GET	/users/{userId}/payments	

API		
4 POST	/items/{itemId}/shipping	{shipping_details}
GET	/items/{itemId}/shipping/{shippingOrderId}	
5 GET	/items/{itemId}/shipping/{shippingOrderId}/track	
PUT	/items/{itemId}/shipping/{shippingOrderId}	{shipping_details}
GET	/users/{userId}/shipping	

API		
POST	/auctions/{auctionId}/notifications	
DELETE	/auctions/{auctionId}/notifications/{userId}	
1 GET	/users/{userId}/notifications	

Auction Service		
POST	/items/{itemId}/auctions	{auctionDetails}
PUT	/items/{itemId}/auctions/{auctionId}	{auctionDetails}
2 GET	/items/{itemId}/auctions/{auctionId}	
GET	/auctions	
POST	/items/{itemId}/auctions/{auctionId}/close	
DELETE	/items/{itemId}/auctions/{auctionId}	

Viewing recommendations and personalized content, and subscribbing to na auctions notifications



Auction Service		
❶ POST	/items/{itemId}/auctions	{auctionDetails}
PUT	/items/{itemId}/auctions/{auctionId}	{auctionDetails}
GET	/items/{itemId}/auctions/{auctionId}	
GET	/auctions	
POST	/items/{itemId}/auctions/{auctionId}/close	
DELETE	/items/{itemId}/auctions/{auctionId}	

Analytics Service		
❷ GET	/auctions/{auctionId}/analytics/metrics	
GET	/users/{userId}/analytics/activity	

Client