Architecture Diagram

Simplified, focussing on Hedera interaction

Action: User account creation











	Ind Imp front-end	Ind Imp back-end	Hedera	IPFS	Fluree
0. New user requests account creation.					
1. Send query for admin hbar balance.					
2. Receive response from network.		4			
3. Send Hedera AccountCreateTransaction().					
4. Receive tx receipt and extract account ID.		←			
5. Send request to create a new Hedera DID for the user.					
6. Receive response and extact DID.					
7. Create a DID document and upload to IPFS.					
8. Add Hedera DID resolver service entry for DID document.					

Action: Project creation











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	Ind Imp front-end	Ind Imp back-end	Hedera	IPFS	Fluree
0. User creates a new project.	-				
1. Send TopicCreateTransaction() to Hedera.					
2. Receive transaction response and extract topic ID.		4			

Action: Document publication











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	Ind Imp front-end	Ind Imp back-end	Hedera	IPFS	Fluree
0. User submits (publishes) a document.					
1. Upload document to IPFS.					
2. Submit document's IPFS URI to project's/agent's Hedera topic.					
3. Receive transaction response and extract submission's topic sequence number.		←			
4. Send query to Hedera mirror node for message ID of document.					
5. Receive response from Hedera mirror node.		←			
6. Add document metadata (including IPFS URI and Hedera message ID) to Fluree.					
7. Add document content to Fluree.					─