In the context of your React project "human-blockchain-identification-system," the execution time would be the period when the system is actively running and being used. Here's a breakdown of what happens during the execution time in different parts of your application:

| Frontend (React Components)

- --Initialization: When the user first loads the application in their browser, React components are mounted, and any initialization logic, like fetching user data or setting up state, is run.
- --User Interaction: As users interact with the UI, event handlers are triggered, which may lead to state updates and re-rendering of components.
- --API Calls: Components may make API calls to a backend or directly to smart contracts on a blockchain to fetch or submit data.
- --State Updates: Any change in state will cause React to re-render components, which happens during execution time.
- --Routing: When users navigate between different views, the routing logic will mount and unmount components accordingly.

| Smart Contracts

- --Transaction Processing: As users perform actions that require blockchain transactions, such as registering an identity, these transactions are created, signed, and sent to the blockchain network during execution time.
- --Smart Contract Interactions: Calls to smart contract functions are made, and their results are processed.
- --Event Listening: The application may listen for events emitted by smart contracts to update the UI in response to changes on the blockchain.

| Backend (If applicable)

- --Request Handling: If your system has a backend server, it will handle incoming requests from the frontend during execution time.
- --Database Operations: Any CRUD (Create, Read, Update, Delete) operations performed on a database take place.
- --Authentication: The process of authenticating users or requests often occurs with each interaction with the backend.

| Blockchain Network

- --Consensus: The blockchain network processes transactions, reaches consensus, and adds new blocks to the chain.
- --Verification: Nodes on the network verify transactions and smart contract executions.
- --Synchronization: Nodes synchronize their copies of the blockchain to ensure consistency and integrity of the data.

During execution time, all these activities may be happening simultaneously, asynchronously, and continuously as long as the application is running and being interacted with. Performance during execution time is critical, as it affects the user experience directly. Thus, optimization at every level of the stack—from smart contract methods to React component rendering—is crucial for a responsive and efficient application.