

Current Implementations, Caveats, and Future Enhancements:

#### \*\*BACKEND\*\*

**\*\*Current Implementation\*\*:**  
The current backend of the Movie Meter only verifies the owner's ID before allowing the addition of a new movie.

**\*\*Future Enhancements\*\*:**  
- The backend should implement user authentication through a wallet, such as MetaMask, to ensure secure interactions.  
- It should interact with IPFS for storing movie metadata and generate a hash for each movie, which can then be securely stored on the blockchain.

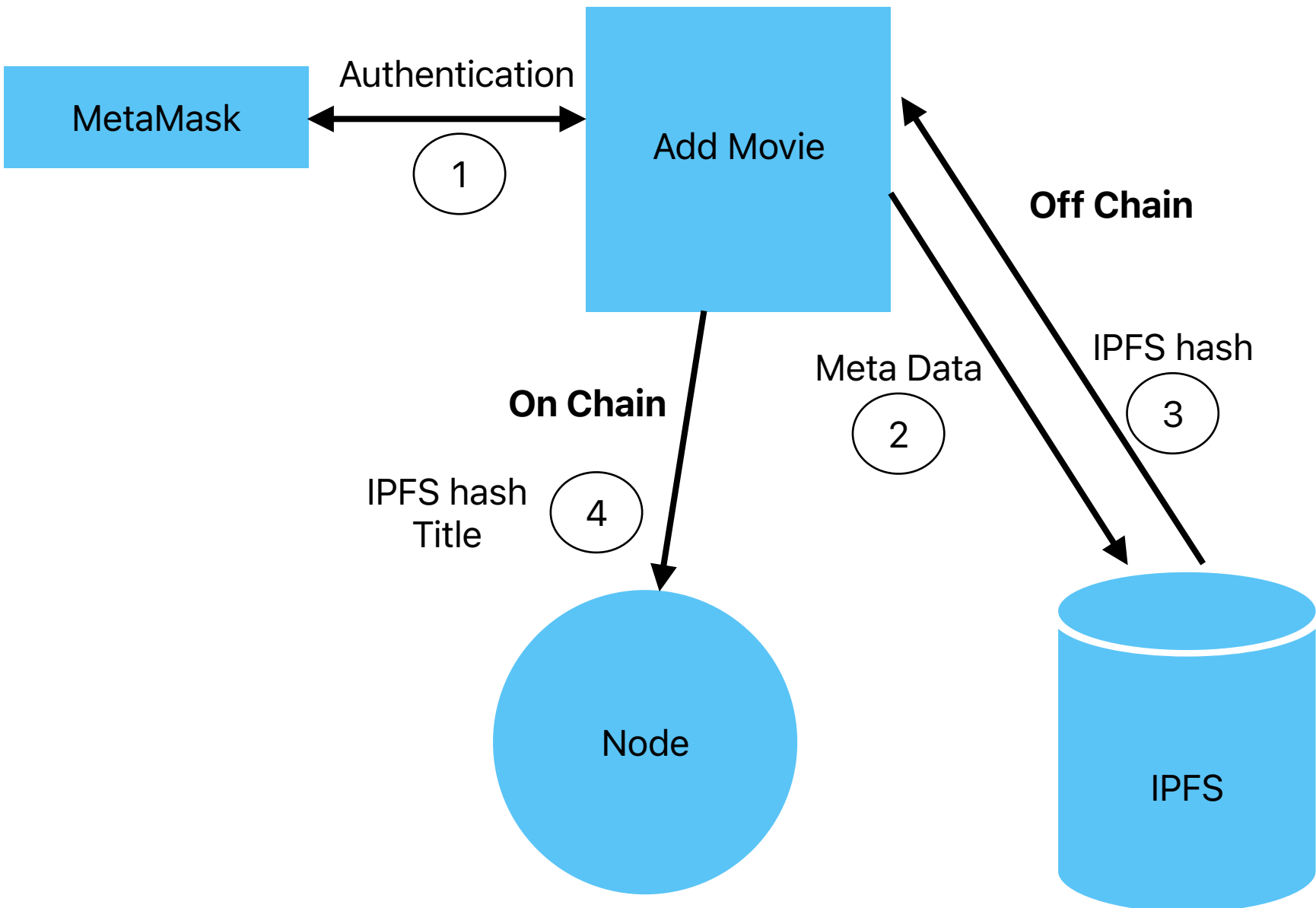
#### \*\*FRONTEND\*\*

**\*\*Current Implementation\*\*:**  
- The "Get Movie" API currently returns only the name of the movie.  
- "Rate Movies" allows users to rate a movie and provides an option to overwrite their previous rating.  
- The "Get Average Ratings" API returns the average rating of a movie.

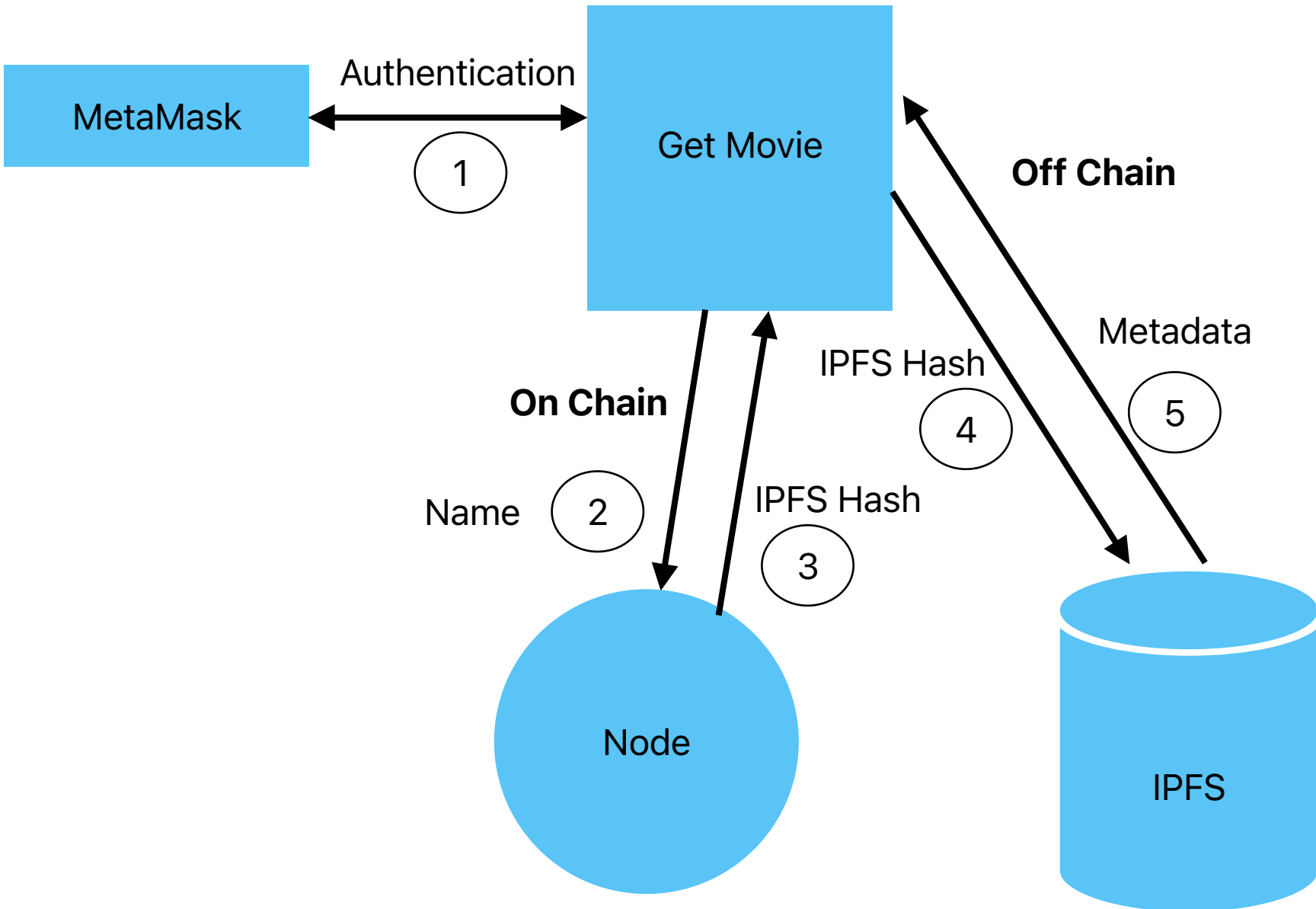
**\*\*Future Enhancements\*\*:**  
- The "Get Movie" API should be enhanced to also return the IPFS hash, which can be used to retrieve detailed movie metadata stored off-chain.  
- All frontend APIs should integrate with a wallet like MetaMask to ensure that the user is authenticated and can interact with the contract securely.

API Control Flow - MovieMeter

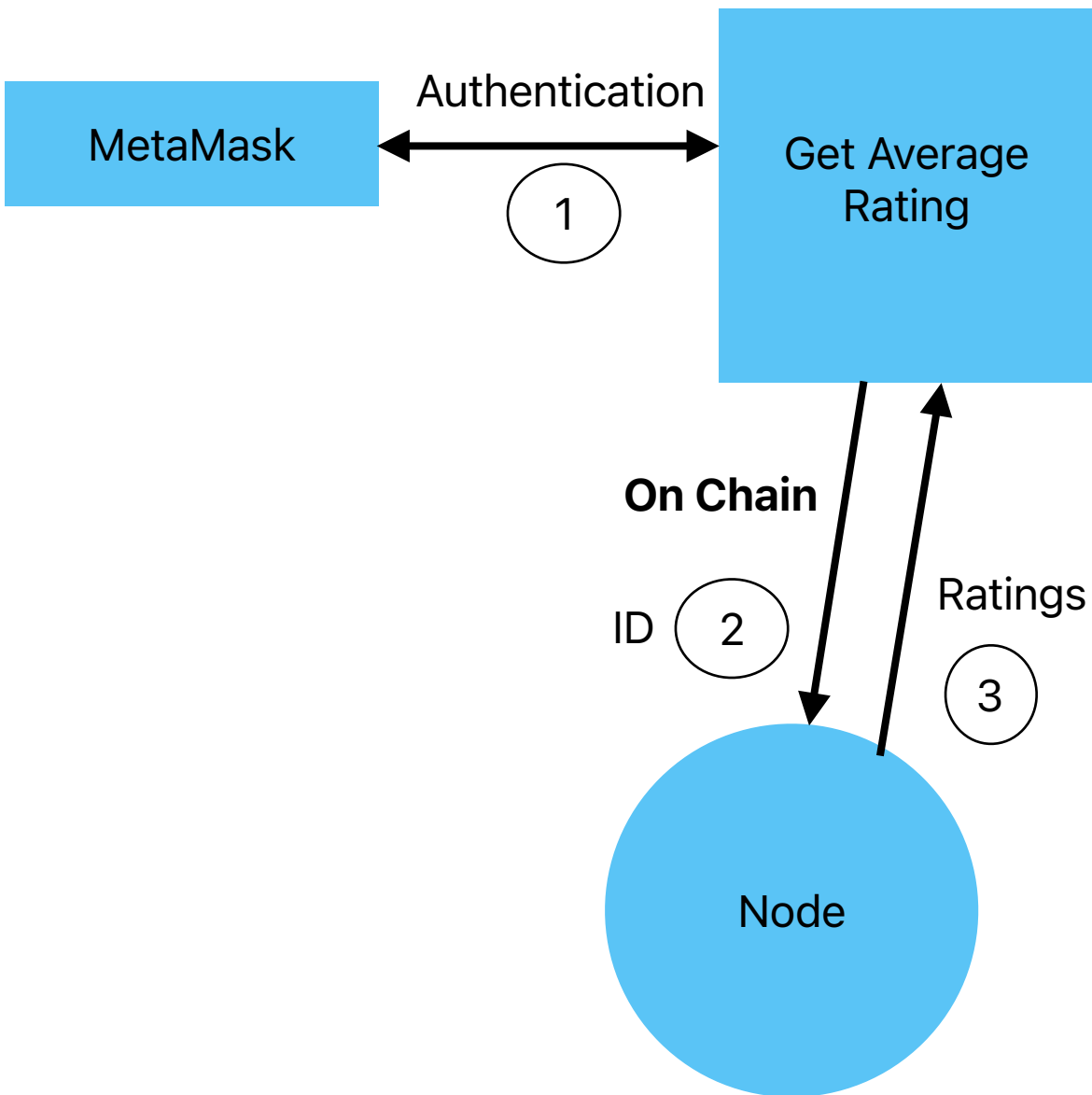
Backend  
addMovie



Frontend  
getMovie



Frontend  
getAverageRating



Frontend  
RateMovie

