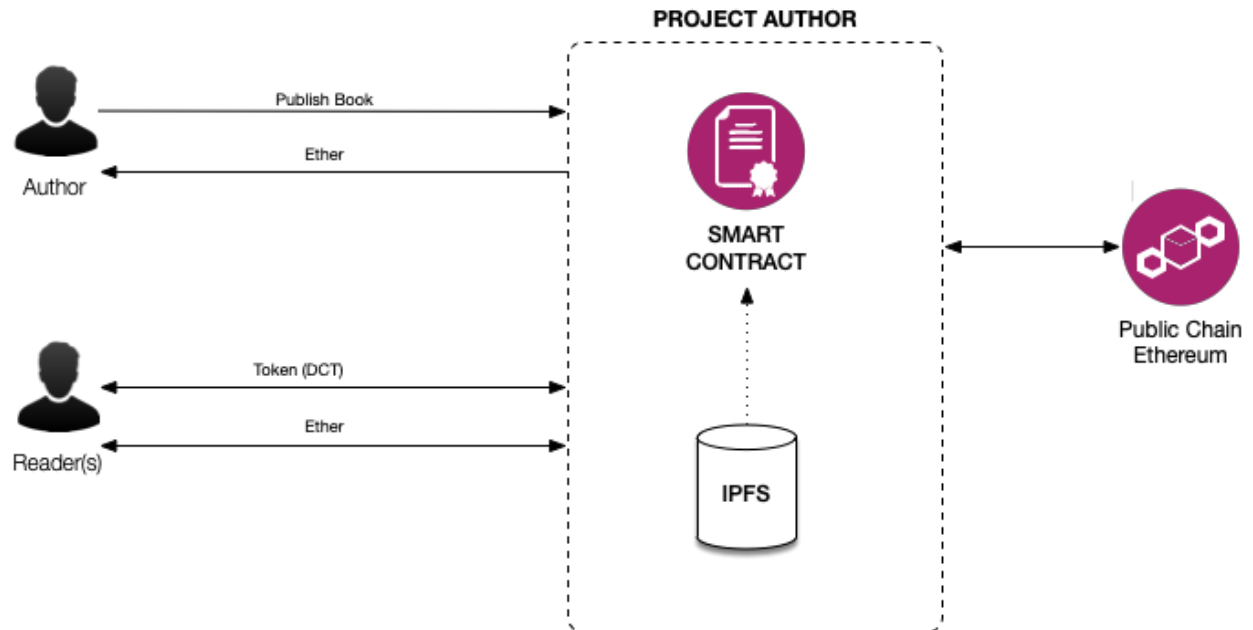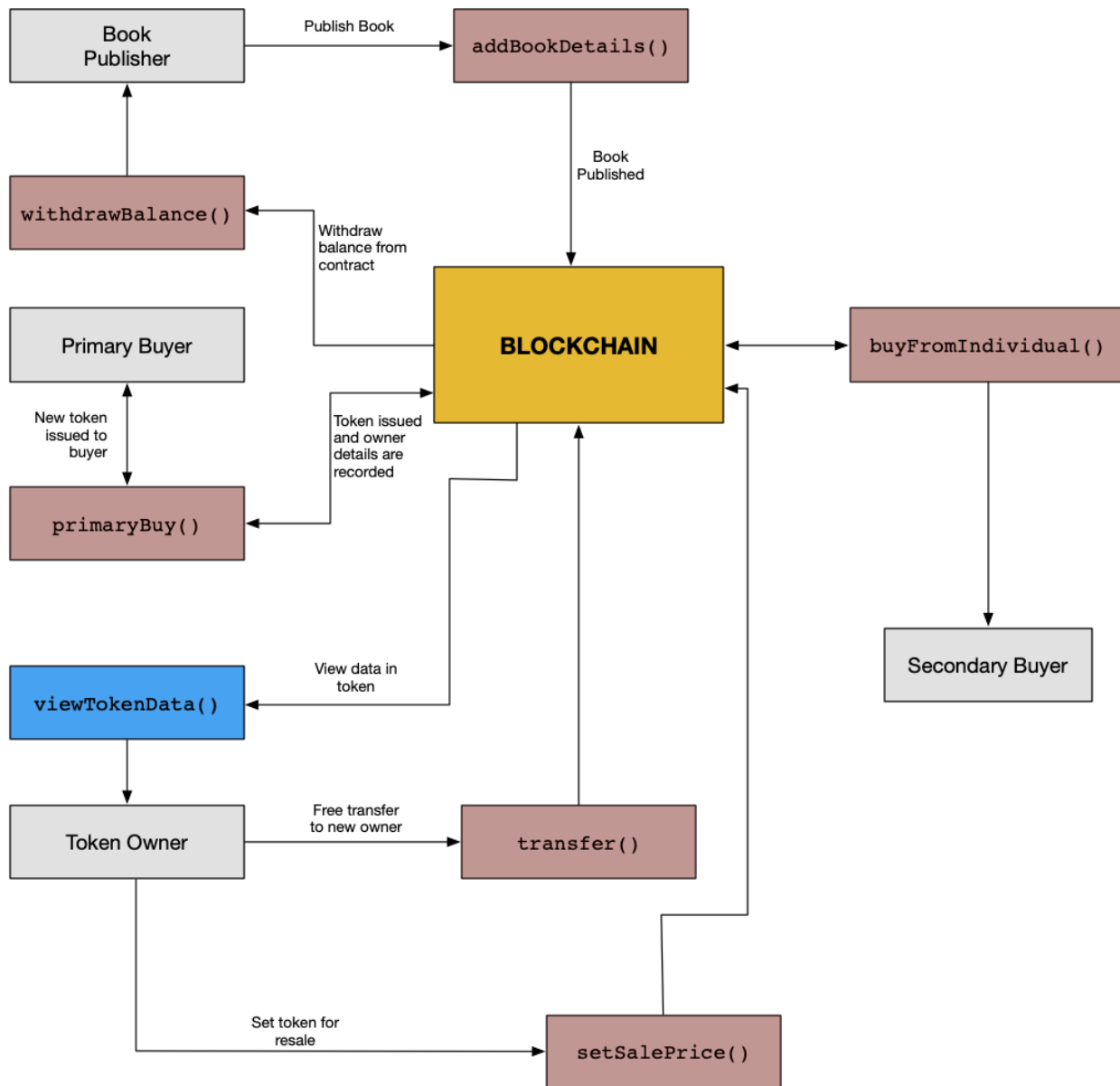# DApp Flowchart

Smart Contract Flow Chart

Code Flow

1. A book publisher publishes a book on to the blockchain (addBookDetails)
2. New and unique tokens get minted whenever a buyer buys the book. (primaryBuy)
3. Buyer is assigned as the owner of the token; the token data consists of the IPFS hash.
4. Only the owner has access to the token's data, which is the book it points to. (viewTokenData)
5. Owner of a given token can set it up for resale at a price of choice (setResalePrice)
6. Owner can send the token for free to any address as well (transfer).
7. A secondary buyer (any address actually) can buy a token that's been set up for resale if the prices agree (buyFromIndividual).
   a. The previous owner gets the money instantly.
   b. For each of these transactions, a commission goes to the publisher. But the money is not sent instantly, it gets updated in a bookkeeping of sorts (publisherBalance)
8. A publisher can withdraw withstanding balances from the contract address (withdrawBalance)