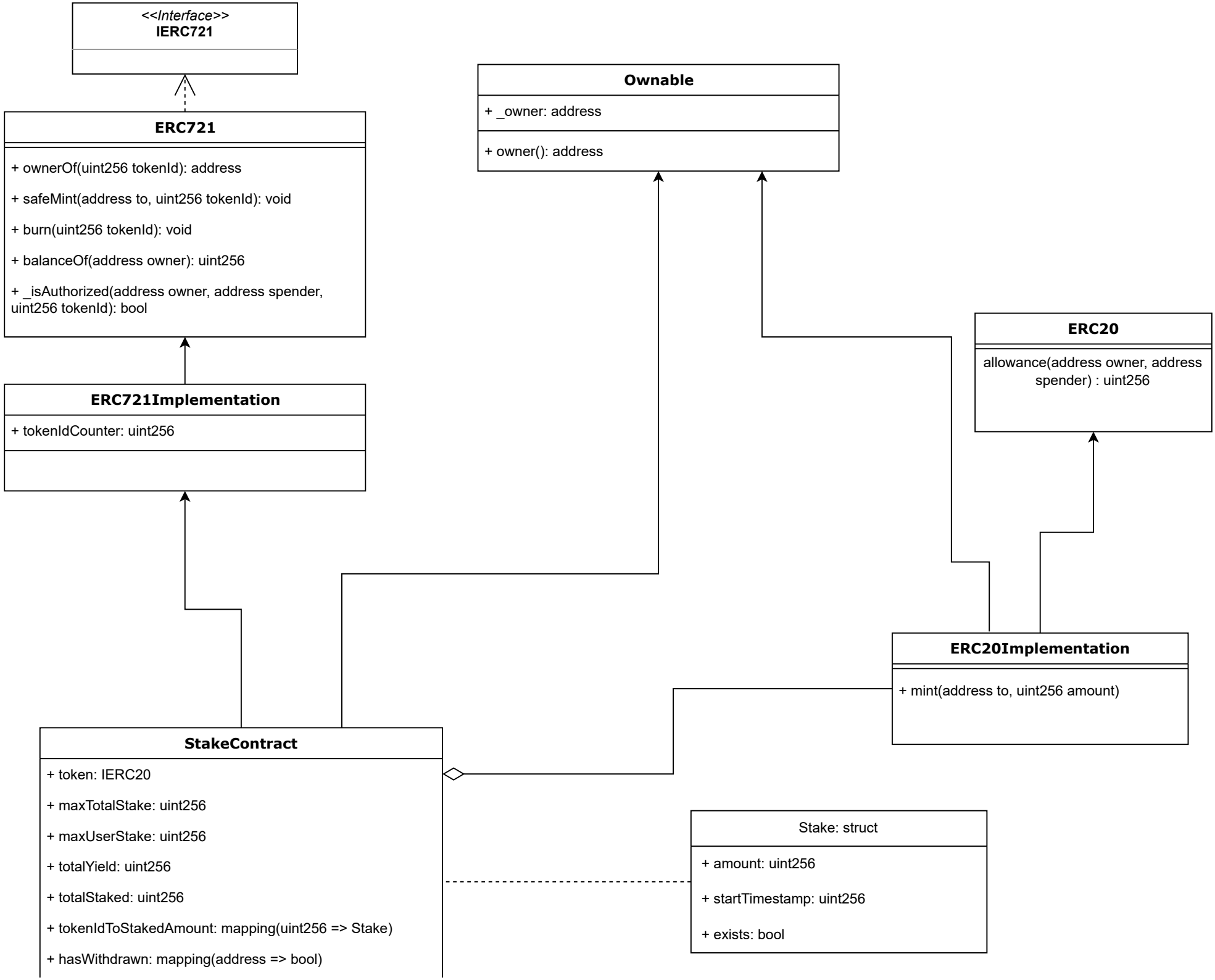
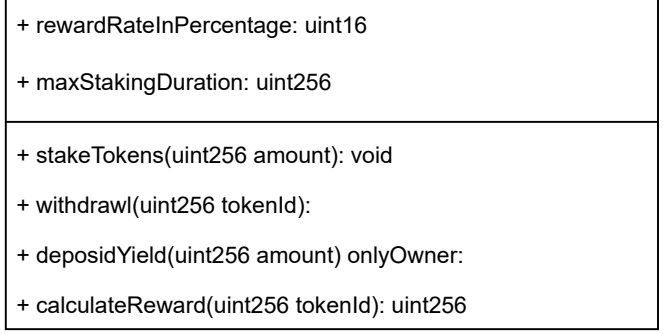
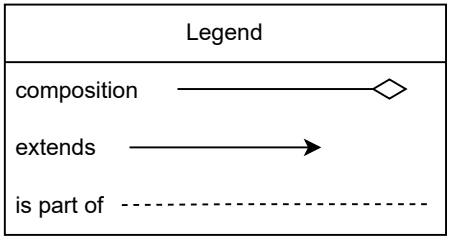

<<Interface>>
IERC721
ERC721
+ ownerOf(uint256 tokenId): address
+ safeMint(address to, uint256 tokenId): void
+ burn(uint256 tokenId): void
+ balanceOf(address owner): uint256
+ _isAuthorized(address owner, address spender, uint256 tokenId): bool
Ownable
+ _owner: address
+ owner(): address
ERC20
allowance(address owner, address spender) : uint256
ERC721Implementation
+ tokenIdCounter: uint256
ERC20Implementation
+ mint(address to, uint256 amount)
StakeContract
+ token: IERC20
+ maxTotalStake: uint256
+ maxUserStake: uint256
+ totalYield: uint256
+ totalStaked: uint256
+ tokenIdToStakedAmount: mapping(uint256 => Stake)
+ hasWithdrawn: mapping(address => bool)
Stake: struct
+ amount: uint256
+ startTimestamp: uint256
+ exists: bool





Events	
Staked	A user has staked a token
Withdrawn	A user has withdrawn his tokens
Yield Depopsited	The owner has deposited yield
RewardClaimed	A user has claimed reward