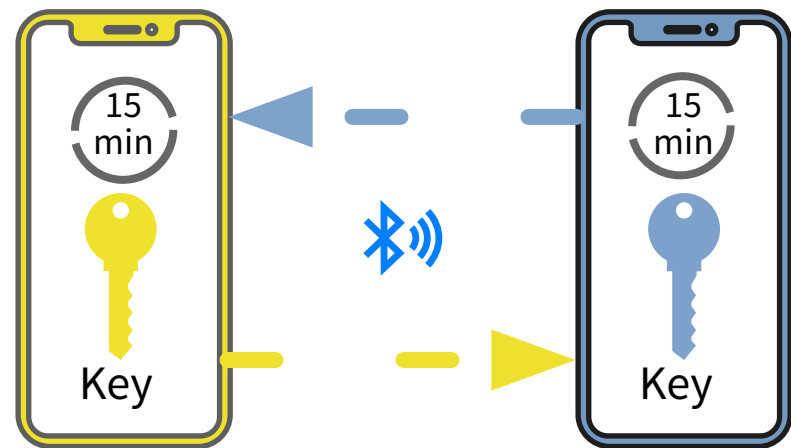


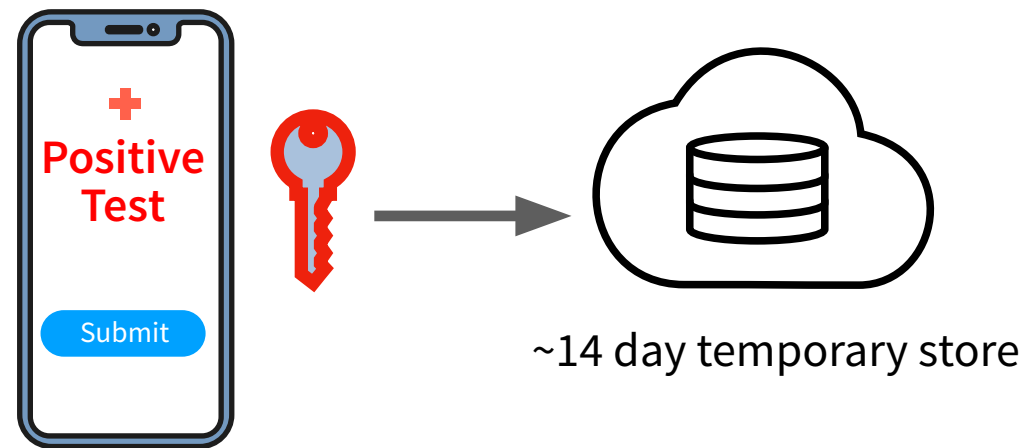
1. Alice and Bob meet

Their phones exchange frequently changing anonymous identifier beacons



2. Bob is positively diagnosed

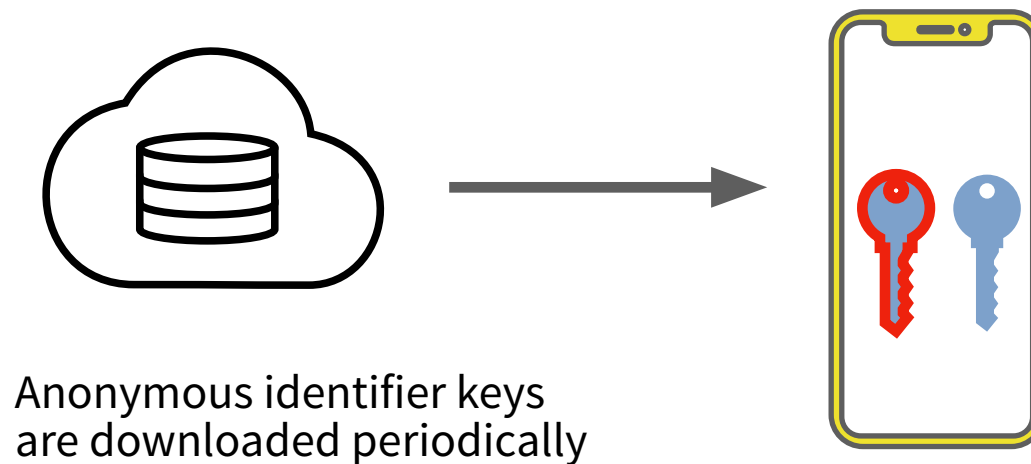
With Bob's consent, his phone uploads the last 14 days of keys for his broadcast beacons to the cloud



Apps can only get more information via user consent

3. Alice receives a warning

Alice's phone periodically downloads beacon keys of everyone who tested positive in her region; a match is found with Bob's anonymous beacons



A match is found