

UUID

- We want a tracking number that is
 - Hard to guess: random / unique
- UUID: Universally Unique IDentifier
 - Standardized methods for generating unique IDs
 - Available in four versions, we will use Version 4 (random)

[Google: wikipedia uuid](#)

What about Uniqueness / Collisions??

Google: wikipedia uuid

- The probability of collision is VERY low ... negligible
- See *Collisions* section of Wikipedia entry
 - Probability of a duplicate in 103 trillion version-4 UUIDs is one in a billion
- However, if you need absolute 0% of collision, you could do this instead
 - generate random UUID
 - query your db and see if UUID has been used by your app
 - if so, then repeat previous two steps until no duplicates found