DATA TYPES AMENDED - SEE SCRIPT

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Table Name** | **Field name** | **Data Type** | **Constraint** |  |
| User | ID | UUID | Primary Key\UNIQUE |  |
|  | userEmail | varchar(45) | Not null\UNIQUE | input |
|  | userName\* | varchar(45) | Not nulL | input |
|  | password | varchar(20) | Encrypted (?)  > 6 | input |
|  | Consent to GPS (can be captured on the registration form). Rachel | boolean |  |  |
|  |  |  |  |  |
| Walk | ID | UUID | Primary Key\UNIQUE |  |
|  | user\_ID | UUID | Foreign key |  |
|  | walkName | varchar(50) |  |  |
|  |  |  |  |  |
| Rating | ID | UUID | Primary Key\UNIQUE |  |
|  | walk\_ID | UUID | Foreign key |  |
|  | walkTime | date/time | Not null |  |
|  | walkRating | Int | Not null |  |
| Route | ID | UUID | Primary Key\UNIQUE |  |
|  | walk\_ID | UUID | Foreign key |  |
|  | sequence | int | Not null |  |
|  | coords | point | Not null |  |
|  |  |  |  |  |
| Reminders | ID | UUID | Primary Key\UNIQUE |  |
|  | user\_ID | UUID | Foreign key |  |
|  | Time | Date/time |  |  |
|  | Anything else - what does firebase need as input??? |  |  |  |
|  | Walk\_ID |  |  |  |

\*

AG notes:

1. Every table to have an ID field (amended above)
2. Added UUID as ID for tables
   1. will always be unique
   2. Don't have to keep track of what is latest ID currently in the table before inserting rows
   3. Means we are not auto incrementing the id
   4. Arguable is slower but not for a small application
3. Point datatype on Route table will hold the coordinates

RC notes:

* Does username need to be on the registration form, instead of ‘name’ so it matches?

MT: changed to “Username” on reg form

* Consider using email as primary key - see James’s comments about security with autoincrement
  + Or are we ok with this?

MT: i agree

* MT if reminder is for a walk then walk\_ID needs to be in reminder table and walk needs to be saved before enabling user to set reminder (?)

RA:

Tables’ Relations/

1. User <1 to ∞> Walk : the user has many walks but the one walk belongs to one user only
2. Walk < 1 to ∞> Ratings: the walk has many ratings but the one rating is for only one walk
3. Walk <1 to 1> Routing: the one walk has one route and the route is only for one walk
4. Route <∞ to ∞> Points: the one route has many points and the points could belong to many routes
5. User <1 to ∞> Reminder: the user could set many reminders but the reminder is only for one user
6. Walk <1 to 1> Reminder: the walk is linked to one reminder and the reminder is set for one walk