Data models - Wanderlust

User
-User ID: String
-Username: String
-profile picture: [URL to Image?]
-expertise: Integer from 1 to 5

Pin
-Pin ID
-location: (latitude, longitude)
-type: one of {picture point, water fountain, restroom, restaurant, resting place}
Alternatively:
-type: _subset_ of {picture point, water fountain, restroom, restaurant, resting place}

Hiking Route
required, final, only editable by Creator
-Route ID: String
-Creator/User ID: String
-route information: List of (longitude, latitude)
-timestamp, when created: [Integer (UNIX Style time stamp)?]
optional, changeable, editable by everyone
-description: String
-tips & tricks: String
-images: [List of URLs to Images?]
not directly visible information by user:
-user rating: List of {user ID: String, rating: Integer from 1 to 5}
-difficulty rating: List of {user ID: String, difficulty: Integer from 1 to 5}
-time estimation: List of {user ID: String, Time: [Integer in seconds (UNIX Style time unit)?]}
derived information
-average rating: floating point number from 1.0 to 5.0
-average difficulty: floating point number from 1.0 to 5.0
-average time: [Integer in seconds (UNIX Style time unit)?]
-length of route: Integer in meter
-steepness (either difference from lowest to highest or more sophisticated metric): Integer in meter
-nearest city (City, Country): (String, String)
For later extension of the project if sufficient time left:
-Q&A section/community board:
        List of (List of Messages {User ID: String, message: String}), where first message is
        the start of a new thread or the question and all other messages are answers.