

Data models - Wanderlust

User

- User ID: String
- Username: String
- profile picture: ?
- 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 {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: ?

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.