

BeneQuest API

High level Objects:

1. Deed
 - a. deedID
 - b. description
 - c. image
 - d. lat
 - e. long
 - f. timestamp
 - g. upvotes
 - h. status
2. User
 - a. userID (identifier)
 - b. emoji
 - c. upvotes

- /addRequest/
 - Description: Add a new request
 - POST request
 - userID
 - description
 - lat
 - long
 - image
 - Response
 - deedID [integer]
- /addDeed/
 - Description: add a completed request (deed) that a user has finished
 - POST Request
 - userID
 - deedID
 - image
- /addUser/
 - Description: add a new user, sets emoji to default
 - POST Request
 - userID
- /upvote/
 - Description: Update the upvote for a specific deed
 - UPDATE request
 - userID
 - deedID

BeneQuest API

- /updateUser/
 - Description: Update the emoji for the user
 - UPDATE Request:
 - userID
 - emoji
- /requestsNear/
 - Description: Get incomplete requests that are near me
 - POST request
 - lat
 - long
 - Response
 - numOfRequests
 - deeds[]
- /allRequestsNear/
 - Description: Get all deeds that are near me, both complete and not
 - POST Request
 - Response
 - numOfRequests
 - deeds[]
- /weeklyHeros/
 - Description: Get the leaderboard of top users
 - POST request
 - Response
 - numOfHeros
 - users[]
- /:userID/upvotes
 - POST Request
 - Response
 - numOfUpvotes
 - deeds[]
- /:userID/doneDeeds/
 - Description: Get the deeds that were done by specific UserID
 - POST Request
 - Response
 - numOfDeeds
 - deeds[]

Database Tables

Deeds(deedID, latitude, longitude, timestamp, requesterID, img, upvotes, status)

Upvote(userID, deedID)

Done(userID, deedID, img)

Users(userID, emoji)

```
SELECT sum(exp) AS exp, userID, emoji FROM (
    SELECT *, (100 + 10* upvotes) AS exp
    FROM Deeds
    NATURAL JOIN Done
    NATURAL JOIN Users
) GROUP BY userID
ORDER BY exp
LIMIT 10;

SELECT sum(100 + 10 * upvotes) AS exp, userID, emoji
    FROM Users
    NATURAL JOIN Done
    NATURAL JOIN Deeds;

SELECT * FROM Deeds
LEFT OUTER JOIN (
    SELECT 1 AS upvoted, deedID FROM (
        SELECT * FROM Upvotes
        WHERE userID = ''
    )
)
NATURAL JOIN Done
NATURAL JOIN Users;
```