

Informal user info REST API spec
Capstone System Design Winter 2018
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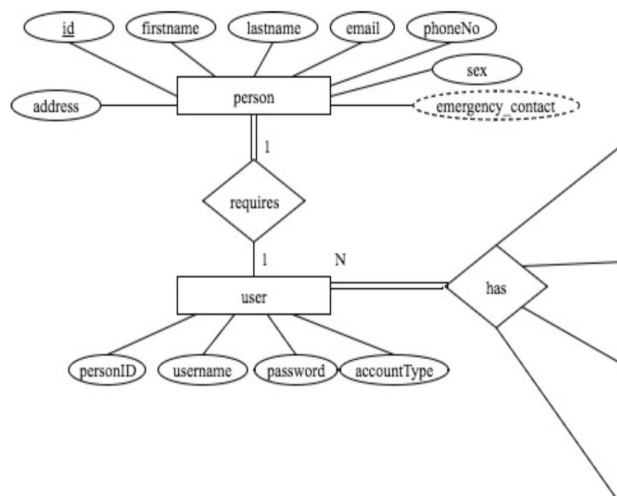
The following is the design spec for the user info REST API for the Design and Development of a Mobile, Wireless Health Monitor with Cloud Computing Support capstone project.

Platform:

node.js
express.js
sequelize psql connector
chai.js

Database:

PostgreSQL, use schemas from PR1 in Fall term



Router Functionality/routes (may change in the future):

1. POST /api/users

- a. Creates a new user in the database
- b. Params - all mandatory, if incomplete request received return HTTP code 400 Bad Request
 - i. firstname
 - ii. lastname
 - iii. email
 - iv. phoneNo
 - v. sex
 - vi. address

- vii. emergency_contact
 - viii. username
 - ix. password
 - x. accountType
- c. Returns
 - i. 201 created
 - ii. 409 conflict

2. GET /api/users/

- a. Gets all user info for current user logged in from the database or if given id + admin user, returns all user info for that user
- b. Params
 - i. user id
- c. Returns
 - i. 200 OK

3. PUT /api/users/:id

- a. Updates the database with the parameters specified
- b. Params
 - i. value
- c. Returns
 - i. 200 OK
 - ii. 204 no content
 - iii. 404 not found

4. DELETE /api/users/:id

- a. Deletes the user from the database
- b. Params
 - i. username or id
- c. Returns
 - i. 200 OK
 - ii. 404 not found

5. /*

- a. Disable all other routes, return HTTP code 405 Method Not Allowed

Other requirements:

- Passwords must be hashed + salted before stored in the database
- Make use of node's module functionality to enforce separation of concerns principles. Ex. model/view/controller/tests/validation subfolders
- Production instance managed by PM2
- All routes must utilize authentication (any library is acceptable Ex. passport.js)
- Production ready authentication schemes in psql
 - DB user permissions for this API must be set to CRUD - related operations only
 - Drop table and related production - breaking commands must be restricted to admin users only
- Must be fully unit tested with chai
- Include shell scripts and .sql files to automate the setup of users and schemas for fresh installs of Ubuntu