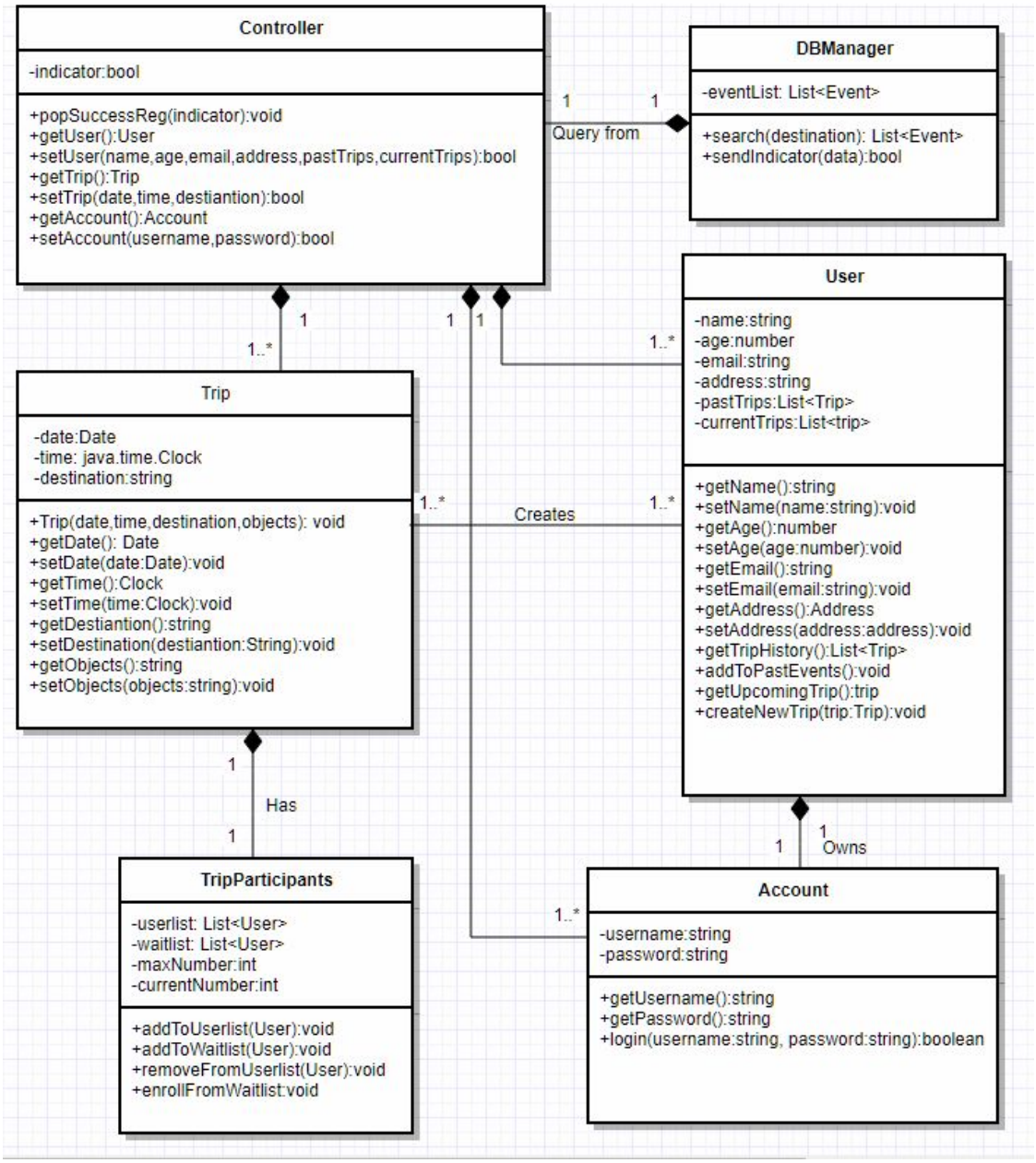
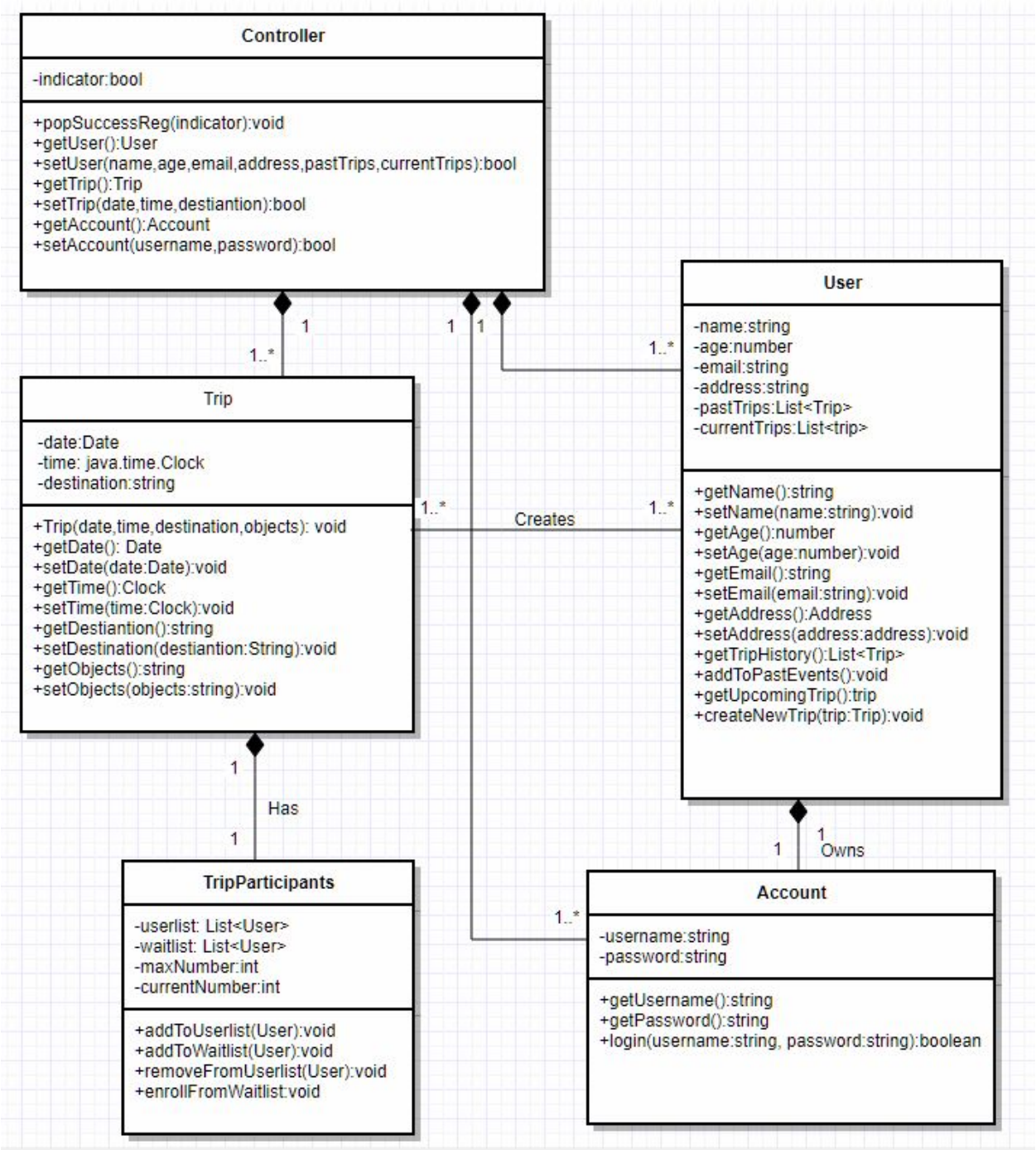
Project Part 4: Progress Report 2

1. **Project**:
    a. Team: 12_HikingCcompanions.
    b. Team members: Le Qin, Ruiwen Jin, Siqi Feng
    c. Project summary: A hiking web application that allows hikers to post hiking plans, find companions with the same hiking routes, and join hiking events to hike together. Users can leave feedback of the routes and making friends with other hikers.

2. **Previous class diagram**:



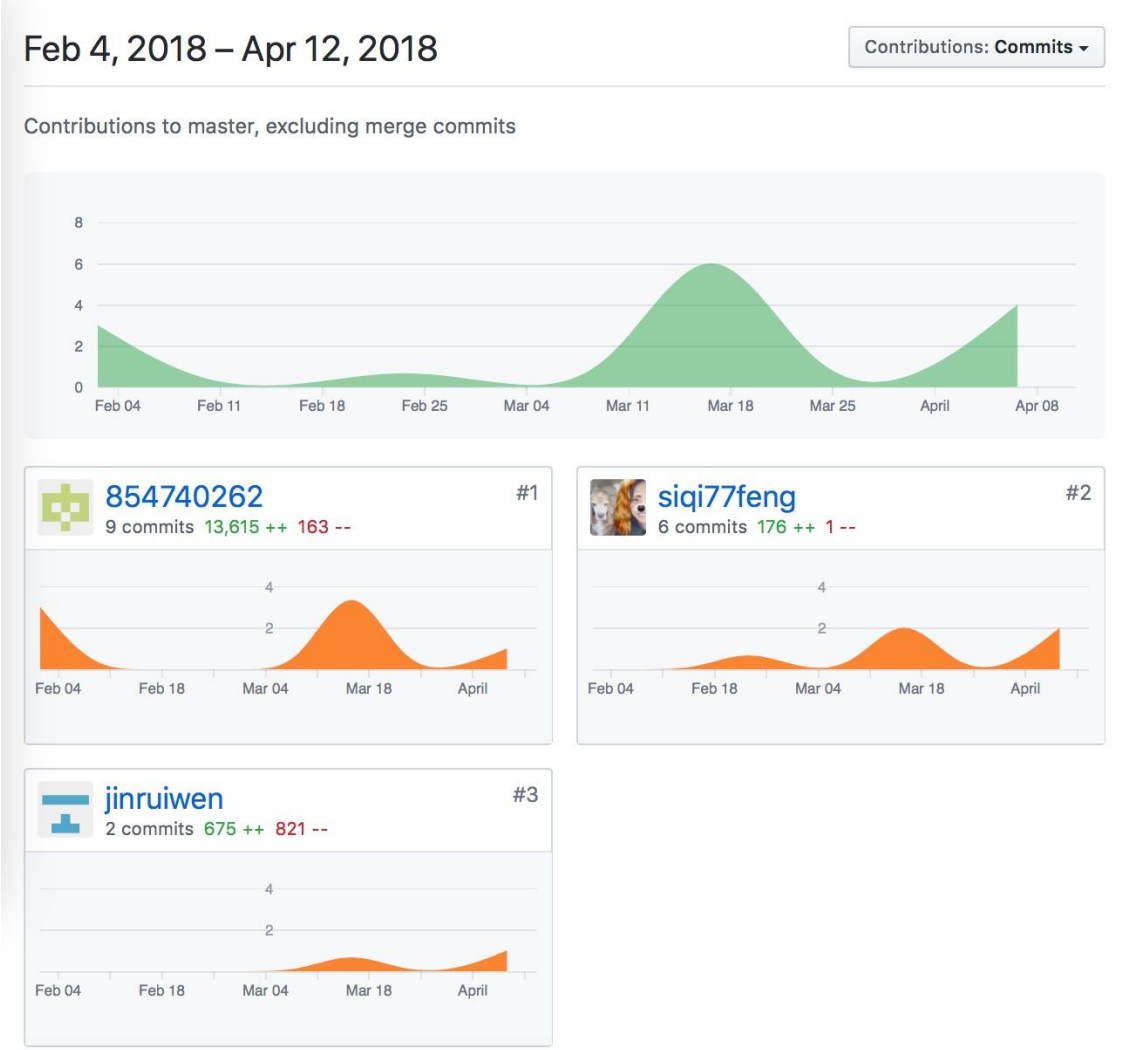
3. **Completed Class diagram:**



4. **Summary**: In the past two weeks, we have finished building Mongo Database, ExpressJS, and NodeJS. Additionally, we have linked all of them (MongoDB, ExpressJS, NodeJS) together. We have also debugged all the existing classes and some of the functions.

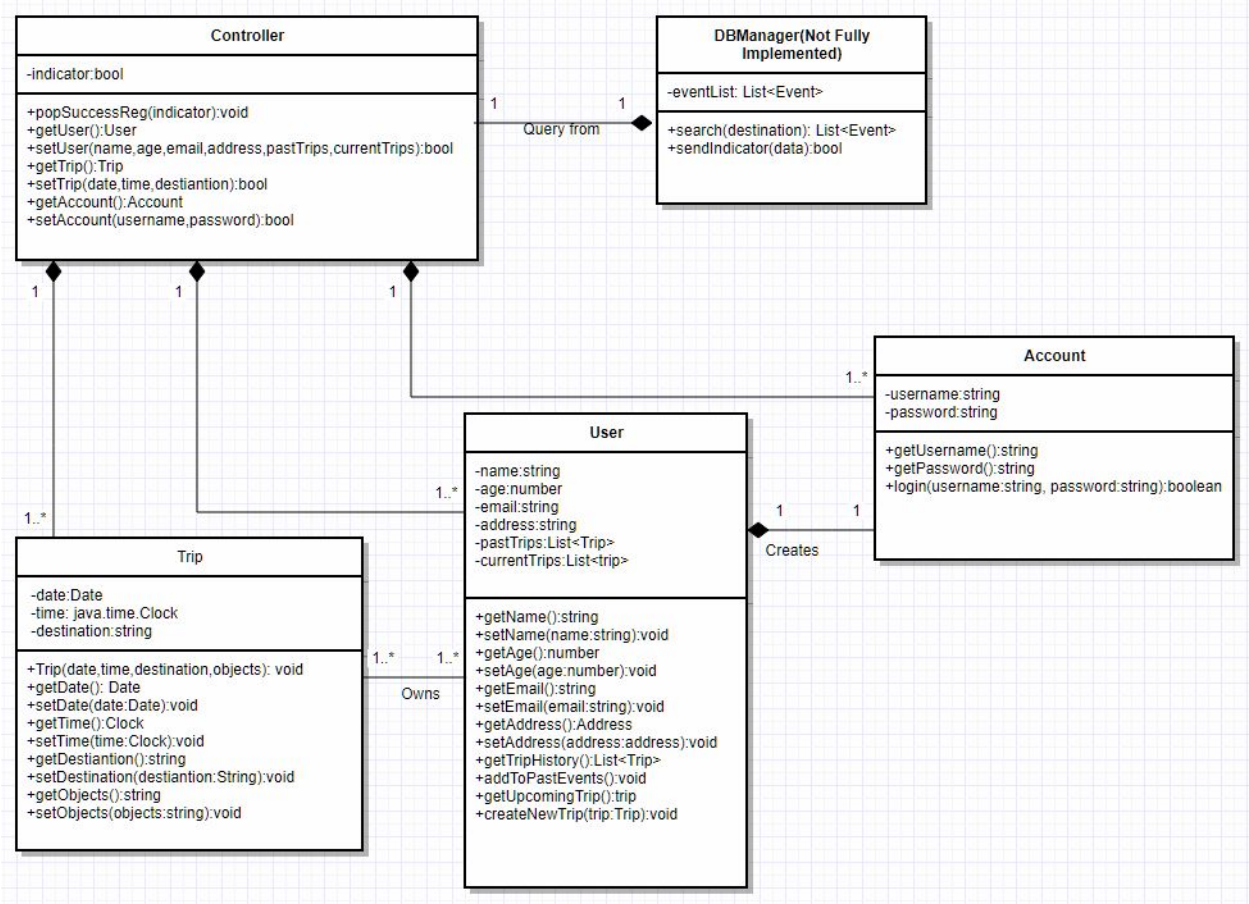
5. **Breakdown**:
    - Siqi Feng: Built and linked up MongoDB, helped in linking up ExpressJS, and wrote documentations;
    - Le Qin: Built and linked up ExpressJS and NodeJS, and designed class diagrams;
    - Ruiwen Jin: Debugged the classes, and kept tracking the work that was done.

6. **GitHub Graph:**



7. **Estimate Remaining Effort:**
    In order to meet some of our project requirements, we have used ExpressJS, NodeJS and MongoDB for our project. However, we have not tested our database and controllers; the testing is needed. Additionally, we need to set up a front end for both testing purpose and users' convenience.
8. **Design Patterns:**
    Command: It is used for communication between client and database are managed by controller. Clients send in functions to request data. Controller translate these functions into query and put them in queue. Controller also pass back either data or indication from the database to clients.

9. **Show the portion of your class diagram with each design pattern implemented**



10. **Final Iteration:**
    - Debug on database and controllers
    - Set up front-end
    - Apply more design pattern and refactors