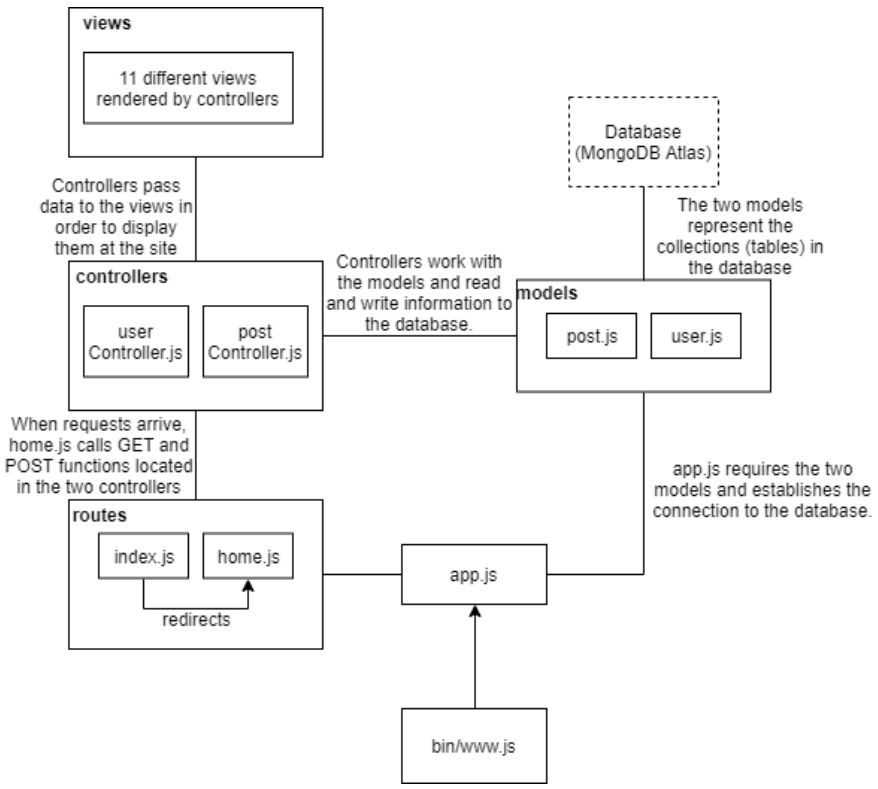
Web Applications course project report

This is the report for the Web Applications course project. The assignment was to develop a microblogging service similar to Twitter by using express.js, HTML and at least basic CSS. I used these languages as well as many middleware libraries for express to develop various functionalities. Here are the most important libraries used:

- Passport to handle users authentication and request authorization. I used the local strategy with usernames and passwords.
- Session, cookie-parser and body-parser to make passport operational.
- Bcrypt to salt and hash users' passwords and compare them to the ones stored in the database.
- Mongoose to handle database communication. The database is hosted at the mongoDB Atlas service because it's free and because I didn't manage to make my application compatible with Rahti in the end.
- Morgan for logging

The frontend of my web application is quite simplistic with a sidebar on the left for navigation and the rest of screenspace reserved to display each route's unique content. Bootstrap has been used to implement the sidebar and some forms and buttons on the site but I don't consider it to be very responsive in design.

Program architecture



Setup instructions

This is how you get the program up and running:

1. Download the source code from https://github.com/jklemi/microblog-project2
2. Go to the project directory and install dependencies by typing “npm install” to the command line on Ubuntu. I’m not sure how to install these on other operating systems. Also, make sure you have Node.js installed.
3. Open app.js and find the database connection string (var mongoDB = 'mongodb+srv://<username>:<password>@cluster0-a7gqf.mongodb.net/microblog?retryWrites=true&w=majority';). Replace <username> with “aki” and <password> with “akinsalasana”. Save the file.
4. Run the application using the command “npm run”.
5. The Program is now running at port 3000. Access this with a browser by typing “localhost:3000” to the address bar.