

TableShare

Simple and effective timetable sharing

Adam Lloyd – R00117318

Applied Web Development

<https://github.com/Radicis/TableSharing>

Overview

The goal of this project was to display proficiency with development using the MEAN stack by creating an advanced web application. To this end, I created a timetable sharing application using Node, express, angular and mongo leveraging the FullCalendar JavaScript module to create a minimal and intuitive drag and drop interface allowing users to create and share their own timetables and subscribe to other user's timetables.

Complexity Displayed

- Modular code in both the client and server components.
- Client/server separation with an Express API and AngularJS client
- Advanced mongoose schemas implementing object collections and population of these.
- Route security using middleware to check for valid authentication tokens before allowing requests to protected areas.
- API authentication using stateless token based authentication with the JSON Web token library.
- Password encryption using BcryptJs
- Cascading deletes of associated events upon timetable deletion.
- Integration and customization of FullCalendar module.
- Minor testing implemented for some API functions.
- QR code generation for link sharing.

User stories

As the coordinator for Drupal Camp 2016, I want to create a timetable for the week's events and share it with all attendees.

As an attendee of Drupal Camp 2016, I want to view the timetable for the event using the link provided to me by the event coordinator.

As an event coordinator, I want to create, modify and delete daily events if they should change after creating the timetable and that these changes are visible to subscribed users.

Modules Used

- Server side NodeJs
 - Express, Bcryptjs, Mongoose, Morgan, Q, Chai, Chai-http and Mocha
- Client Side AngularJs
 - Bootstrap, Fullcalendar, Moment, qrcode