

Startland Student Portal

Kirby Fracas
@kfracas on GitHub

Description

The Startland Student portal allows participants in a professional development course to create a user profile that grants access to the course content. Students can then view the course summary, complete and submit assignments, and provide feedback on other student's assignments via the forum page. This project was commissioned by Startland, a local non-profit organization in Kansas City.



Features

- User registration with separate roles for admins and users
- Basic CRUD repository for users, announcements, and assignments
- Forum for interacting with other students
- Embedded course content videos



Planning - User Stories

Admins can add, delete and update announcements the are viewable on the home page. They also have the ability to include links to external web sources.

Users can read course content and watch videos, submit assignments for each module, view other student's submissions and provide comments through the forum.



Planning - Database

The database includes:

- a table for users with personal info, login credentials, and school/position details,
- a table for roles,
- a table for announcements,
- a table for assignments linked to users in a one to many relationship; and
- a table for comments linked to assignments and users in a one to many relationship.

Users and roles are linked in a many to many relationship, so there is a separate table to track those relationships.



Technology Stack

- JavaScript & TypeScript
- Angular 8
- Node.js
- Express
- MySQL
- Bootstrap



Demo



What I Learned

- How to link to a MySQL database to store data from front end form inputs using Node.js and Express.
- Routing within Angular 8 to pass data between views on the front end as well as routing within Node.js and Express to pass form inputs to the correct controller.
- Token based authentication and authorization for user registration and login functionality.



What's Next

- Replacing initial course content with finalized modules from Startland.
- Building out each module to accept multiple assignments instead of just one.
- Enhancing and adding to admin capabilities.

