Software Saturdays Final Project
Fall 20201

This semester (Fall 2021), Software Saturdays is offering the option to earn one of two certificates issued through the Purdue College of Engineering. These look great on a resume, LinkedIn, or GitHub. To earn these certificates, look at the requirements below.

The final project is a To-Do web app where users can view and interact with a list of to-do items stored in a database. How the project functions and looks is up to you, as long as you meet the requirements below.

All projects are due by **Saturday, November 13th, 2021 at 11:59 PM**. If you need more time, please email us for help and an extension. We have online project work days on October 30 and November 6 to ask questions and get ideas if you are stuck. We will also be holding office hours on October 27, November 3, and November 10 for more assistance. You can also ask questions on Slack in the `#fall-2021-vuejs` channel.

To submit your project, please zip the folder with your files and send them to Hadi Ahmed in a Slack Direct Message. Your ZIP file must include the HTML, CSS, JS, and supporting files. If you are unsure of how to submit, please email us or ask on Slack.

An example of the final project can be viewed online. Please note the source code for this project is obscured, and is not visible to you.

VueJS Beginner Web Development Certificate

Public Demo: https://hadiahmed098.github.io/to-do-beginner

Help Resources:
- **Beginner Recordings**
- **VueJS Official Documentation**
- **Firebase v8 API Reference**

1. Must Have:
    a. At least one of each v-directive
        i. v-bind
        ii. v-if
        iii. v-on
        iv. v-model
        v. v-for
    b. At least 1 Vue Component with props
        i. Can be the same as 1(c)
    c. At least 1 Vue Component with data
        i. Can be the same as 1(b)
    d. At least 3 methods
    e. Persistent data storage using Firebase
        i. i.e. Data must be the stored across page reloads
    f. All four (4) operations described by CRUD
        i. **C**reate
        ii. **R**emove
        iii. **U**pdate
        iv. **D**elete
2. Choose 2:
    a. Add 3 custom events
    b. Add 2 computed properties
    c. Add 3 CSS classes

VueJS Intermediate Web Development Certificate

Public Demo: https://hadiahmed098.github.io/to-do-intermediate

Help Resources:
- **Intermediate Recordings**
- **VueJS Official Documentation**
- **Vue Router Official Documentation**
- **Firebase v9 API Reference**

1. Must Have:
    a. At least one of each v-directive
        i. v-bind
        ii. v-if
        iii. v-on
        iv. v-model
        v. v-for
    b. At least 1 Single File Component with props
        i. Can be the same as 1(c) and/or 1(d)
    c. At least 1 Single File Component with data
        i. Can be the same as 1(b) and/or 1(d)
    d. At least 1 Single File Component with a nested SFC
        i. Can be the same as 1(b) and/or 1(c)
    e. At least 3 methods
    f. Persistent data storage using Firebase
        i. i.e. Data must be the stored across page reloads
    g. All four (4) operations described by CRUD
        i. **C**reate
        ii. **R**emove
        iii. **U**pdate
        iv. **D**elete
    h. At least 2 Views aside from the Home View
        i. Must include navigation between these views
        ii. Can be the same as 1(i)
    i. At least 1 View with props
        i. Can be the same as 1(h)
2. Choose 3:
    a. Add 3 custom events
    b. Add 2 computed properties
    c. Add 3 CSS classes
    d. Add 1 slot tag