

# Request for Proposal Strawberry County Higher Education

February 2022

Request for Proposal for developing and installing a progressive web application to keep track of student attendance.

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To whom it may concern,

This is a request for proposals for a progressive web application that makes it easy for students to sign-in to a class via QR codes and keep track of the classes they have attended. Strawberry County Higher Ed. is accepting applications for this proposal until February 28, 2022. The project is set to begin in the middle of March.

Strawberry County Higher Ed. is a non-profit, dedicated to life-long learning and supporting our small community. Building community is important to us as we are in one of the most remote areas in the state. Rural isolation, lack of opportunities for job advancement, and skilled worker shortages are some of the many problems we face in this region. SCHE offers a wide variety of classes, including college-prep courses, training and development, and life-long learning experiences.

**If you have questions, please contact:**

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Project Coordinator  
Strawberry County Higher Ed.  
123 Main St.  
Grand Marais, MN 55906  
218-555-0101  
stevejohnson@gmail.com

# I. Outline

Strawberry County Higher Education is looking for a progressive web application that will take attendance by scanning a unique QR code for each student. The application should also keep track of past classes the student has attended.

Additionally, the developer must create an easy way for the instructor of each class to scan the students QR code and submit a report to administration that includes a list of attendees.

The developer is free to design the website and QR code system the way they would like. However, accessibility guidelines and PWA requirements must be followed.

## II. Project Scope

1. Create a student portal that allows users to create a front-end profile.
2. Create an instructor portal that allows an instructor to create a class and generate an attendance report.
3. Teach instructors and admin how to use this system.

## III. Objectives

Here is a list of objectives:

- Create a visually-appealing web application
- Must be easy for the user and instructor to use
- Generate a unique QR for each student
- Create a way for the instructor to scan QR codes

- Create a profile for each student that includes the name, date, and instructor for each class they take

## IV. Schedule/Timeline

**Week One:** Design with Wordpress and create a child theme. Create logins for both students and instructors

**Week Two:** Begin to work on the QR code portion of the project

**Week Three:** Continue working on the QR code portion of the project

**Week Four:** Continue working on the QR code portion of the project

**Week Five:** Finish working on the QR code portion of the project

**Week Six:** Create an app manifest and a service worker

**Week Seven:** Create link button for mobile home screen and give the app mobile camera permissions

**Week Eight:** Create custom offline page and push notifications

**Week Nine:** Test the app and debug issues

**Week Ten:** Finalizing all of the details and last-minute debugging. Test the project to ensure it meets Google's PWA requirements. Use Lighthouse (Google Developer Tools) to check the site's performance, accessibility, best practices, and PWA scores.

**Week Eleven:** Presenting the project and teaching the administration and instructors how to use the system.

## **V. Resources**

SCHE will do its best to provide all of the resources the developer will need for this project. The developer will be working closely with the web services coordinator, who will be overseeing this project.

## **VI. Budget**

Strawberry County has agreed to allocate \$2500 for this project.

- A Deluxe hosting plan through GoDaddy: \$7.99/month (\$95.88/year)
- SSL Certificate through GoDaddy: \$63.99/year
- .com domain name: approximately \$19/year
- The extra \$320 is to be used on any additional tools the developer might need
- The developer will be paid \$2000 (\$180/week)

## **VII. Obstacles**

- Accomplishing all of the tasks for this project will require the developer to stick to a strict schedule. Budget plenty of time for each task, as debugging issues might take awhile.

## **VIII. Success**

For this project to be successful, it has to provide a seamless user-experience for both the instructors and the students. The application should look nice and presentable while maintaining quick loading speeds.

Additionally, this PWA should follow Google's PWA checklist. This includes:

- Starts fast and stays fast
- Works in any browser
- Responsive to any screen size
- Provides a custom offline page
- Is installable

## **IX. Qualifications**

- Proficient experience in PHP, JavaScript (specifically ReactJS), and WordPress.
- Attention to detail and experience in graphic design.
- The developer must agree to weekly progress reports that outline the things they accomplished that week.

## **X. Evaluation Criteria**

Proposals are evaluated based on:

- Previous work experience in the languages stated in the qualifications section.
- A quick outline of how the developer would approach this project. Please include quick sketches of wireframes.
- Agreement with weekly progress reports.
- Any terms and conditions the developer wants to include.

### **Send Proposals to:**

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218-555-1000

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