

Seth Nielson 2/22/21 Senior Project Checkpoint Agenda

- Past progress on the project so far,
 - Set things up on GitHub
 - Got the project to build finally
 - Looked into <http://pdfkit.org/> as well as <http://pdfmake.org/playground.html>
- New progress
 - Watched many youtube tutorials about PWAs
 - Did research on options for storing data in the browser and/or on the local device.
 - Determined that IndexedDB is probably the way I will go because it is supported on nearly all browsers. (was considering lovefield as a possible choice, but it might not be as well supported)
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- Past difficulties barring progress,
 - More discussion with my wife regarding what will be recorded by her has made me wonder about HIPPA compliance potential complications
 - I haven't decided on a Javascript library yet that can create a PDF. Leaning towards pdfmake
- Current difficulties barring progress
 - It's hard to find examples on PWA that use both React and Typescript. (Found one with React and Javascript that I might be able to use)
 - Also hard to find one that doesn't use a server
- current milestones (What week are we on?)
 - *Milestone List*
 - This is a weekly plan of which tasks will be completed to reach the proposed solution on time.
 - Weeks 1-2: Generate the create-react-app PWA, and learn how to get it set up such that I can build and compile. (COMPLETED)
 - (NEW) Determine what PDF creator to use, and also determine how data will be stored on the browser. (Mostly completed)
 - Week 3-4: Learn how to implement the Web App manifest, and how to get the PWA to interact with saving data to the device. (Still need to research)
 - Week 5: Design the UI and the structure of the pages and components. Also determine if possible to send form data to an email address.
 - Week 6-7: Get the UI fully built and functional. Have it possible to generate a pdf (that matches the actual physical timesheet) with filled out data
 - Week 8-9: Learn how to deploy the app, and successfully use the app on my wife's phone (or mine)
 - Week 10-15: Have my wife try out the app and provide feedback. Implement desired features as requested.

- Potential changes:
 - Last week:
 - Determine HIPPA requirements/potential problems (solved)
 - Learn how to implement the Web App manifest (not worked on yet)
 - Learn how to get the PWA to interact with saving data to the device.(solution mostly chosen)
 - Might learn that creating the Web App manifest should be done later. If so, then move on to the Design of the UI (did not determine yet)
 - This week:
 - Get IndexedDB working with basic/vanilla html inputs
 - If enough time, then implement taking the data and generating a pdf of some sort