

## Seth Nielson 3/24/21 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>
  - 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)
- New progress
  - More research, Installed and then implemented IndexedDB through a library called idb.
  - Installed pdfmake-wrapper (TS version for pdfmake)

### Notes:

- (how to store JSON data with “local storage”)
- Tutorial using local storage to save JSON data
- Javascript file API <https://developer.mozilla.org/en-US/docs/Web/API/File>
- 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
  - 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 difficulties barring progress
  - Getting a pdf to be generated
- 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.
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- Potential changes:
    - Past weeks:
      - 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)
      - Get IndexedDB working with html inputs
    - This week:
      - Implement taking the data and generating a pdf
      - Get the Web App Manifest created