**Working Prototype Known Problems Report**

Civic Duty

Team Civic Duty

7/24/2018

List of Functions Not Working Properly:

* Start up
  + starting up project seems to occasionally throw a random “cannot connect to development server” error.
    - This only occurs on startup, and has no known fix as of right now. We believe it to be a bug in the code of Expo, the software we use to display our app on our phones.
* Display
  + Header is not properly centered on Android OS
    - This is not an issue with iOS, just Android
    - This is a bug in React Navigator, which we use to switch pages. There is no way for us to fix this, unless we switch to another library.
  + Body text color is incorrect
    - The color of our body text is incorrect and may not be hard to see against the background.
    - This is also a bug in React Navigator; there is no known fix, except maybe switch to another library.
  + Line under input fields is fickle about displaying
    - The line sometimes displays and sometimes does not;
    - This seems like there may be a CSS conflict error somewhere, but it’s likely that it has to do with how React Native renders the styles. For now, we assume that there’s no fix.
* Fetching user’s list of representatives
  + The school’s “cruznet” network does not allow us to make outgoing Http GET requests.
    - We assume this to be a security certificate issue set up by the school, and so there is no known fix for the issue.
  + On submitting user’s address, if the entered address/zip code is invalid, app will crash with a KeyParseError.
    - This is caused by our API returning json with no members, which the app tries to access and crashes.
    - The solution is to parse the user input in our backend API, and if it’s invalid, cause front end to have an error message pop up.
  + iOS devices don’t see the submit button
    - The button is there, but the button itself doesn’t render. We believe this to be a React Native issue, since this works fine on Android. There is no known fix for this.
  + iOS devices get a “JSON value ‘<null>’ error upon entering the List of Representatives page.
    - This is almost undoubtedly a React Native issue, or an issue with one of the React Native libraries, since the error is thrown from a system component “QuickPerformanceLoggerConfigureHooks”. There is no way for us to fix, and it doesn’t seem to cause any issues besides throwing an error. There is no known fix.
  + Some representatives returned may have no image, or an inaccurate image.
    - This is due to the image parse method that we use in our backend. The Google API doesn’t return images for most people, so we manually do a custom search and get the first image result. As the person becomes less well-known, the accuracy of the image decreases, or the link may be broken or private.
    - Some reps may have no image, because the custom search API that we use only allows 100 free requests per day. We set it so that after our requests are used up, we don’t put an image for the person.
    - The solution to this is to pay for more requests, or to find a different API that allows unlimited requests per day.
  + When loading up the list of representatives it is just a white screen for a few seconds.
    - This is due to the large amount of data that is being pulled from the API and the lack of a load screen implementation.
    - The solution to this would be to implement a load screen for the user, so that they know how long it is going to take for their list of representatives to load.
* View Individual Representative Info
  + Mailing address for the politicians is not displaying
    - When the user clicks on a representative’s page it only displays their name, picture, and phone number. There is an issue with displaying their address.
    - The solution to this would be to call the nested JSON variable properly within our code.
  + Duplicate key error on loading page
    - This does not display on screen, but does on node package manager. The issue is that we pass the image to the page, and keyExtractor attempts to assign the same key to the image, causing an error. Causes no issues with display, as far as we know.
    - The fix has to do with the way we pass parameters. Although we don’t have a fix yet, I think it won’t be too difficult to fix.
  + Politician pages do not have info on where they stand
    - We were able to display basic information, but will have to look into another API for stances, positions, and a list of who the politician has received donations from.
    - This will be pretty easy to implement, but it would have been moved to the sprint backlog.
* Register to Vote
  + The scrolling for the page doesn’t work when inputting information
    - This error has something to do with how the React Native Navigation API works. This is an easy fix, we just need to implement infinite scrolling, but we didn’t have time to fix it this sprint.
  + Android doesn’t display drop-down boxes
    - This is definitely a React Native rendering issue, probably an issue with how Android handles components versus how iOS handles components. There is no known fix for this.