dimdrop

Mobile App Requirements for Health Inspection Data Delivery

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Objective

The purpose of this app is to deliver health inspection data to citizens. The data can be pulled such as when a user if actively looking for a restaurant with good health inspection results. The data can also be pushed in the form of a push alert when a restaurant of interest to a user has received a new inspection result. The design should be clean and minimal. Icons and graphics should be flat with bold colors. Graphics and icons will be provided if needed unless the developer can provide suitable media.

User Interface Requirements

1. NAVIGATION: Bottom navigation bar
    a. Home, Map View, List View, Write Comment/Complaint and More… buttons
    b. More contains Favorites, Settings, Account/Profile, Logout
    c. Standard icons with text label
2. HOME PAGE: Show initial options
    a. Client logo
    b. Feature the closest establishment with no violations
    c. Textfield for entering address with submit button
    d. Button to search current location if GPS available
3. MAP VIEW: Show closest establishments with health inspection data on a map
    a. Use custom markers
        i. Custom markers will have 3 different colors
            1. Red – serious violations (total demerits for last inspection is greater than 15 and/or citations were issued)
            2. Yellow – warnings (violations found but not serious)
            3. Green – no issues
            4. Violations based on number of demerits of last inspection
        ii. Custom marker will have the total number of demerits for the latest inspection in the center of the marker
        iii. Customer marker will also have a symbol of a ticket if a citation was issued
        iv. If there are no violations the marker will be a green checkmark
        v. The type database column will determine the marker graphic
            1. Restaurant types will have a knife and fork on plate
            2. Mobile unit type will have a food truck
            3. Convenience store will have gas pump and soda
            4. Farmer’s market will basket of vegetables

5. School will have a graduation cap
6. Retail with food prep will have a shopping cart
7. Daycare facility will have a baby
8. Caterer will have a hand holding a dome covered serving tray
9. Bakery will have a bread or cake
10. Hospital will have an “H”
11. Bar will have a martini glass

b. Map allows zooming and panning
c. Refresh map data on move/zoom
d. Clicking on marker creates balloon popup

   i. Balloon popup shows name of establishment, establishment type, demerits count, brief violation info and address with distance
   ii. Balloon popup goes away when click on map/away
   iii. Clicking on balloon popup takes you to establishment detail page

e. Popup menu to filer results based on inspection violation and establishment types

   i. Violation options are No Violations, Minor Violations, and Serious Violations
   ii. Establishment options taken from “type” database column
   iii. Yes/No switch on each option to pick which types are shown

4. LIST VIEW: Show closest establishments with health inspection data on a list

   a. Sort by proximity ascending
   b. Show proximity by driving and walking distance in miles/feet
   c. Background color of record will be Red/Yellow/Green using same criteria as map markers

      i. Options are No Violations, Minor Violations, and Serious Violations
      ii. Establishment options taken from “type” database column
      iii. Yes/No switch on each option to pick which types are shown

   d. List record will show thumbnail picture, establishment name, establishment type, demerits count, brief violation info and address with distance
   e. Clicking record goes to establishment detail page

5. DETAIL PAGE: The details of one establishment with their health inspection data

   a. Includes picture from a web service(Google Places/Yelp) if available
   b. Static map of establishment location
   c. Name, address, latest demerits and violations found featured
   d. Most recent inspection information at top below featured text already expanded
   e. Accordion view for historical inspection dates expand for full info

      i. Each accordion row colored based on demerits of last inspection

         1. Row title will be the date and inspection type

      ii. Full info will include line items of violation_number, violation_text and demerits in text with all other data as icons if applicable
      iii. Display icons instead of text for the following data types that are true or have a value: complaint, closure, lifted_closure, foodborne_illness, foodborne_illness_investigation, pounds_food_destroyed, trained_manager, corrected_site

1. When hover or click on the icons you will see description of the icon and value if applicable

f. Add to Favorites button
g. Directions button
h. Share button pops up email, social media icons to share
i. Leave comment/complaint button

6. COMMENT/COMPLAINT FORM: Used to send the organization comments/complaints
   a. Textarea for message body
   b. From email textfield
   c. Popup subject field
   d. Name of establishment comment or complaint is for auto filled
   e. Submit button
7. PUSH NOTIFICATIONS: Send alerts to users
   a. When new favorite establishment gets inspection
   b. When very near an establishment with serious violations
   c. New manual message sent to all users
   d. Notifications appear as popups
8. USER ACCOUNT/PROFILE: Basic account info
   a. Key value pair account info
      i. Full name
      ii. Account name email
      iii. Password
   b. Change password button
   c. Logout button
   d. When not logged in show login/signup form
9. SETTINGS: General settings
   a. Options with on/off lsider buttons
10. HELP: General help text
   a. Include content from the following URL: http://www.hcphes.org/eph/inspection%20information%20page.htm

Functional Requirements

1. CentoOS 6 server
2. MongoDB database
3. NodeJS server app
4. Geospatial functionality
   a. Get user location
   b. Use lat/lon from database records to display markers on a map
   c. Check GPS functionality on device
5. Work as a web app on smart mobile devices
6. Responsive design for tablet and desktop use
7. Be able to convert web app to native app using PhoneGap/Titanium/Sencha
8. Use Google Places API for images and additional meta data
9. Allow for language translation via configuration

Graphics

Harris County
HCPHES
Public Health & Environmental Services

http://www.hcphes.org/Templates/HCPHES%20LOGO%20ver9.jpg