Stam Rally PRM

1. Objectives
   1. Encourage visitors to visit many locations within the town and extend their stay and promote consumption.
   2. Increase awareness of the town by promoting stamp rally and related social media promotion.

1. Architecture
   1. Simple and stand alone
   2. JavaScript, HTML, CSS
   3. Load the stamp rally page once
2. Implementation
   1. Prepare stamp rally main page.

This HTML page provides guidance of Stamp Rally and rules.

This page has a button link to the Stam Rally stamp page.

* 1. Stamp page

The stamp page accommodates up to 12 stamps.

This page has a button to read a QR code or detect GPS based on the prior setting.

Once the location is detected with a QR code or geolocation with GPS, this page shows a splash image.

After showing the splash image, a stamp image filled the associated location.

After gathering all stamps, the page shows a completion message.

* 1. Detection page

Detection page is show when use clicks a detection button on the Stamp page and detects the location based on the prior setting in either scanning a QR code or detecting GPS location.

* + 1. QR code detection

A QR code which value is between 01 and 12 is place each location.

When users scan the QR code, the application recognizes the location based on the value of QR code.

This detection page activates a camera and keep showing the camera image till it detect QR code or cancel button is clicked.

Once QR code is detected, it automatically close the page and go back to Stamp page with the value.

* + 1. GPS location detection

In case of GPS location detection, the page tries to detect the location with the Geolocation API. Once the location is detected, compare the location with the predefined location rage and check if the current location is one of 12 predefined areas. Once it is detected as the one of them, it close the page and go back to the stamp page with the information.

If the detected location is out of predefined 12 areas, the page shows the error message.

* 1. Management page

If four corners of stamp page is pressed predefined sequence, the stamp page changes to management page where manager can confirm the accomplishment.

Once the manager confirm the full stamp, the Stamp page changes the display image so that managers can understand who were confirmed.

1. Implement method
   1. Language: JavaScript
   2. DB: IndexedDB for location storage
   3. Key images:
      1. Stamp page before confirmation with 12 white circles
      2. Stamp page after confirmation
      3. 12 stamp images
      4. 12 splash videos
   4. Key link
      1. Link to stamp page on Top page
      2. Link to detection page
      3. Cancel link on the detection page to go back to the stamp page
      4. 12 links on the stamp page that link to explanation page for these 12 locations.
   5. Pre-set information
      1. Number of locations in integer, max 12.
      2. Location detection method
         1. QR code
            1. QR code from 01 to 12
         2. GPS
            1. 12 sets of latitude-longitude pairs
            2. Allowance of latitude-longitude
      3. Stamp locations on the stamp page
         1. 12 sets of x, y coordinates of stamp image centers
      4. Location explanation inks.
         1. 12 links for the explanation of each locations.