SOFTWARE DEVELOPMENT PRACTICES

SRS DOCUMENT FOR COVID-19 TRACKER APPLICATION

DATE:1/12/2022

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OBJECTIVE:

Covid 19 tracker application is an application that helps in tracking the vaccinated, non vaccinated and the affected groups of Covid 19 in India.

USERS OF THE SYSTEM:

- Government
- Public

FUNCTIONAL REQUIREMENT:

- Build an application that customers can access by getting the vaccination certificates and further notifications just by entering the aadhar number or the phone number.
- Application should have signup, login, mobile number or aadhar number, dashboard page and customer status page.
- This application maintains the database of affected, recovered and deceased numbers across India.
- Displays the percentage of population vaccinated, not vaccinated and the other details of the population.
- People above the age of 50 should reappear for the booster dose would be notified.
- While the above ones are the basic functional feature expected, the below ones can be nice to have add-on features:
- Multi factor authentication for the sign-in process.
- Location can be enabled during the vaccination to ensure the location of vaccination for future problem, if any.

OUTPUT/POST CONDITION:

- Standalone application/ public application.
- Records the overall status/ position of each state across India.

NON- FUNCTIONAL REQUIREMENTS:

SECURITY
- Secured connection for transmission of data.
- App platform: Phone number/ aadhar number- based credentials
- OTP everytime during login for safer data retrieval.

PERFORMANCE
- Peak Load Performance(during important occasions and festival days, national holidays etc.)
  1. Verification process< 5 secs.
  2. Re-Captcha process< 2secs.
  3. Vaccine certificates<3secs.

MAP DESIGN:
- COVID affected people more than 50% of the state should be orange in colour.
- COVID affected people less than 50% in each state should be yellow in colour.
- COVID affected people are more than 90% in a state should be red in colour.

AVAILABILITY:
- 100% availability

STANDARD FEATURES:
- Maintainability
- Usability
- Availability
- Failover

- Scalability

LOGGING:

- The system should support logging(app/web)

MONITORING:

- Government should be able to monitor the update of every individual for statistical purpose.

BROWSER COMPATIBLE:

- All latest browsers.

TECHNOLOGY STACK:

- HTML
- CSS
- Java Script.

APPLICATION ASUMPTIONS:

- The login page should be the first page rendered when the application loads.
- Unless logged in to the system, the user cannot navigate any other pages.
- Logging out must again redirect to the login page.
- To navigate to the admin side, you can store a user type as admin in the database with a username and password as admin.

VALIDATIONS

- Basic mobile number validation should be performed.
- Password validation should be performed.

FRONTEND:

Customer:

1. **Auth:** Design an auth component whereas auth for tracker app. Once the component is created in tracker app, name the jsx file as same as component name where the user can authenticate login and sign in credentials.
2. **Signup:** Design a signup page component named where user can signup by providing their basic details like
   - **Phone number(mandatory)**
   - **Email (all email apps are allowed)**
   - **Password(optional)**
   - **Sign in link**
   - **Signup box**
3. **Login:** Design a login page component named where the existing customer can log in using the registered mobile number and password.
4. **Dashboard/ Home:** Design a homepage component named that has the navigation bar and list of issued documents with appropriate filter options.
   - **Home button**
   - **Documents issued button**
   - **Nearby vaccination camp/centre button**
   - **Logout button**
5. **Map desing:** Design an Indian Map named COVID MAP where user can see the percentage of covid affected people and recovered by representing the colours.

 Admin:

6. **Admin Dashboard:** Design a dashboard page named where the list of percentage of vaccinated people can be displayed on admin side.

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