SG436

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1. Payments Demo
2. Updated Web UI Demo

What the problem asks for?

1. To make the application process for STET exam error free and quick, we need online software where the candidates can login, register, fill the form and submit. Software has to keep bio data of the candidate, print admit cards and later we can display online result of STET as well. During all the process automatic SMS and Email facilities should be included. Mobile app will be more convenient along with software.

2. Challenges: Network connectivity is not uniform all throughout the state of Sikkim so software should be developed in such a way that it can run effectively in slower networks. For that purpose multipart forms are preferred.
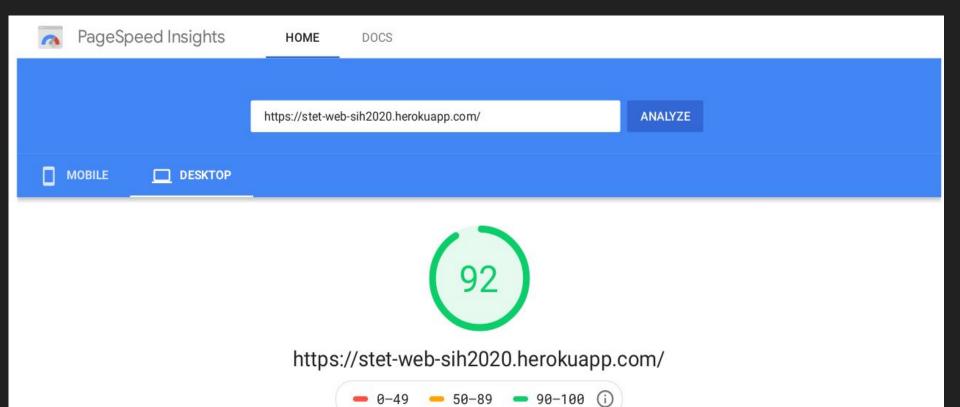
1. In Our System

- Candidate can login/register, fill the form, upload the documents, make payment, download admit card, and check the results using a Web app, an android application, or a progressive web app.

- The Admin can keep track of all the activities on the system and can generate admit cards for all verified candidates with the click of a button.
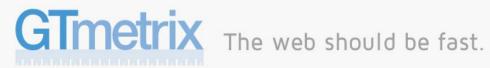
- The Admin also can upload results.

2. Speed Report

- developers.google.com/speed/pagespeed/insights
  - Score: 92/100

- gtmetrix.com/
  - Fully Loaded Time : 2.4s (Avg Loaded Time is 7.9s for all other sites)

- Application does not load all the resources at a time.

https://stet-web-sih2020.herokuapp.com/

ANALYZE

MOBILE   DESKTOP

92

https://stet-web-sih2020.herokuapp.com/

● 0–49   ● 50–89   ● 90–100 ⓘ

Field Data — The Chrome User Experience Report does not have sufficient real-world speed data for this page.

GTmetrix

The web should be fast.

Performance Report for:

https://stet-web-sih2020.herokuapp.com/

Report generated: Sun, Aug 2, 2020 10:03 PM -0700
Test Server Region: 🇨🇦 Vancouver, Canada
Using: Chrome (Desktop) 75.0.3770.100, PageSpeed 1.15-gt1.3, YSlow 3.1.8

PageSpeed Score	YSlow Score		Fully Loaded Time	Total Page Size	Requests
D (61%) ˅	C (72%) ◆		2.4s ˄	771KB ˄	21 ˄

Flexibility

- The system can be changed according to Sikkim Govt requirements
  - Server
  - Aadhar API
  - Digilocker API
  - Payment Gateway
  - System language
  - Session management
  - Format of results
  - Admit card design

Security

The data shared in the system is very sensitive and security in this type of system is very important.

We are considering all the security measures to ensure that data cannot be seen by any unauthorised person. And any unauthorised or spam user cannot join the system.

Future works

- Auto verification of the documents
  - Requires two models
    - 1. OCR
    - 2. Forgery Detection

- Change the system according to the demands of the Sikkim GOVT

Thanking You