

# Web Testing

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## Seva Connect Web Application

Submitted To

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# About Seva Connect

Seva Connect is a centralized platform that collectivizes essential services like Aadhaar cards, PAN cards, voter ID cards, and more. Instead of duplicating the processing of these services, Seva Connect simplifies the user experience by providing backlinks to the official government websites where users can directly avail these facilities.

By providing backlinks to government websites, Seva Connect ensures a seamless experience for users. They can navigate the platform to find the specific service they need and then click on the provided backlink, which redirects them to the official government portal.

The backlinks act as a bridge between Seva Connect and the government websites, enabling users to access the facilities with ease. Once redirected, users can follow the official application process, submit required documents, and complete the necessary steps as instructed by the respective government department.

Seva Connect also assists users by providing relevant information, instructions, and guidelines for the documentation and application process. This ensures that users have accurate and up-to-date information to complete the process efficiently.

# About Seva Connect

SEVA CONNECT

HOME ABOUT SERVICE CONTACT US Q

01

02

## WELCOME TO SEVA CONNECT

your ultimate hub for all government-related scheme information and essential card details.

Contact Us

### About Us

Welcome to our comprehensive website, your ultimate hub for all government-related scheme information and essential card details. In today's fast-paced world, staying informed about the various government schemes and programs can be a daunting task. Our

# Web Testing Types

Functional  
Testing

Security  
Testing

Usability  
Testing

Load and  
Stress  
Testing

Browser  
Compatibility

Storage and  
Database  
Testing

# **Seva Connect – Functional Testing**

## **Checking the functionality of the Seva Connect Website:**

- Users are able to book appointment to make important cards etc.
- Contact us form.
- Chat bot is working or not.
- Web Pages are working or not Etc.

# **Booking an Appointment on Seva Connect**

**To book an appointment user must follow the below steps – Basic Flow**

- Search for the card for which they want to book an appoint.
- Now Click on the book appointment button.
- User need to sign in into the site to get the appointment done.
- After signing in, User need to fill the form correctly like address, phone number etc.
- After completely filling up the form. User can show the date of the his/her appointment.
- He/ She can delete the appointment any time before any worker of our site reaches to him/her.

# Booking an Appointment on Seva Connect

## Services We Provide



### Voter ID Card

Some quick example text to build on the card title and make up the bulk of the card's content.

[Create Voter ID Card](#)

[Update Voter ID Card](#)

[Others](#)

[Click Here](#)   [Subscribe Now](#)



### Aadhar Card

Some quick example text to build on the card title and make up the bulk of the card's content.

[Create Aadhar Card](#)

[Update Aadhar Card](#)

[Others](#)

[Click Here](#)   [Subscribe Now](#)



### PAN Card

Some quick example text to build on the card title and make up the bulk of the card's content.

[Create PAN Card](#)

[Update PAN Card](#)

[Others](#)

[Click Here](#)   [Subscribe Now](#)



# Booking an Appointment on Seva Connect

 SEVA CONNECT

HOME

ABOUT

SERVICE

CONTACT US



## Aadhar Card



Create a New Aadhar Card | नया आधार कार्ड बनाएं

**CLICK HERE**



# Test Cases for Booking Appointment

Test Case ID	Description (Steps Followed)	Inputs	Expected Outputs
TC1	1. Search the entire sections of cards to get the appointment done on that card.	strings	Related Cards details will be shown
TC2	1. Register or login to the site to book appointment	Login ID, Password, Confirm Password, Address, Phone Number, Card Details.	If the information is valid user will be registered or login otherwise an error message will be popped up
TC3	1. Login to the website	Login ID, Password	Can perform booking an appointment process
	2. Select the card on which user want to book an appointment	Card name, Card Photo	
	3. Start Booking the appointment	Name, Address, Phone number, Payment	If all the information is valid user can now finish the steps and get the booking done.
	4. After the booking the appointment is done	Appointment date, appointment details	

# Test Cases for Booking Appointment

Test Case ID	Description (Steps Followed)	Inputs	Expected Outputs
TC4	1. Login to the website  2. Select the card on which user want to book an appointment  3. Do not start the booking appointment	Login ID, Password  Card name, Card Photo  Card name, Card Photo	Can perform booking an appointment process
TC5	1. Login to the website  2. Select the card on which user want to book an appointment  3. Do not start the booking appointment for the selected card  4. Select the another card on which user want to book an appointment	Login ID, Password  Card name, Card Photo  Card name, Card Photo	Can perform booking an appointment process

# Test Cases for Booking Appointment

Test Case ID	Description (Steps Followed)	Inputs	Expected Outputs
TC6	1. Login to the website	Login ID, Password	Can perform booking an appointment process
	2. Select the card on which user want to book an appointment	Card name, Card Photo	
	3. Start booking the appointment	Name, Phone number, address, Payment	If all the information is valid user can now finish the steps and get the booking done.
	4. After booking the appointment	Appointment name, appointment time etc.	
	5. User delete the appointment		Appointment details will be deleted, only remaining appointments will be shown.

# Database Testing

The screenshot shows the Postman application interface. At the top, there's a navigation bar with 'Explore' and a search bar. Below the bar, a list of requests is shown: 'GET get all j' (status: 200 OK), 'GET get single', 'PATCH update', 'DEL delete j', 'POST login', 'POST Register', 'POST Create', and a '+' button. To the right of these is an 'Upgrade' button and a user profile icon.

The main area displays a request for 'HTTP jobsApi / get all jobs'. The method is set to 'GET' and the URL is 'http://localhost:3000/api/v1/jobs'. There are 'Save' and 'Send' buttons. On the right side of the request details, there are icons for 'Copy', 'Comment', and 'Info'.

Below the request details, there are tabs for 'Params', 'Authorization', 'Headers (8)', 'Body', 'Pre-request Script', 'Tests', 'Settings', and 'Cookies'. The 'Authorization' tab is selected, showing a 'Type' dropdown set to 'Bearer Token' with a placeholder 'Token' and a value 'eyJhbGciOiJIUzI1NilsInR5cCI6IkpXVCJ9.eyJ...'. A tooltip message says: 'Heads up! These parameters hold sensitive data. To keep this data secure while working in a collaborative environment, we recommend using variables. Learn more about variables'.

At the bottom, there are tabs for 'Body', 'Cookies', 'Headers (8)', and 'Test Results'. The 'Body' tab is selected, showing a JSON response. The response is displayed in 'Pretty' format:

```
1
2   "jobs": [
3     {
4       "status": "pending",
5       "_id": "64b44a274e11bc0ab4db9a85",
6       "company": "uber",
7       "position": "backend developer",
8       "location": "noida, up",
9       "salary": "70k-80k",
10      "employmentType": "full-time",
11      "workSchedule": "day-shift",
12      "createdBy": "64b18b77a411731b50e3c513",
13      "createdAt": "2023-07-16T19:51:03.758Z",
14      "updatedAt": "2023-07-16T19:51:03.758Z",
15      "__v": 0
16    }
17  ]
```

Below the JSON response, there are buttons for 'Raw', 'Preview', 'Visualize', and 'JSON'. The status bar at the bottom shows 'Status: 200 OK', 'Time: 310 ms', 'Size: 614 B', 'Save as Example', and other environment settings.

# Seva Connect – User Interface Testing

User interface testing tests that the user interaction features work correctly. These features include hyperlinks, tables, forms, frames and user interface items such as text fields, radio buttons, check boxes, list boxes, combo boxes, command buttons and dialog boxes. User interface testing ensures that the application handles mouse and keyboard events correctly and displays hyperlinks, tables, frames, buttons, menus, dialog boxes, error message boxes, and toolbars properly

The screenshot shows a dark-themed website header with the logo "SEVA CONNECT". Below the header, a section titled "Let's Get In Touch!" contains three input fields labeled "Name", "Email", and "Message", followed by a red "Send" button. To the right of the form is a graphic of a teal typewriter. Two yellow circles with numbers 1 and 2 are overlaid on the page, connected by arrows pointing to the "Send" button and the typewriter graphic respectively.

SEVA CONNECT

HOME ABOUT SERVICE CONTACT US Q 01

**Let's Get In Touch!**

Name

Email

Message

Send

1

2

01

# 1. Navigation Testing Test Cases



HOME

ABOUT

SERVICE

CONTACT US

Q

01

Test Case ID	Description (Steps Followed)	Inputs	Expected Outputs
TC1	Check all links on each web pages	Link 1 – Home Link 2 – About Link 3 – Service Link 4 – Contact Us Link 5 – Seva Connect Link 6 – Book appointment Link 7 – Confirm Link 8 – Support	Appropriate web page is opened with respect to each link.
TC2	Click on all links which are available on web pages while performing booking an appointment	Link 1 – Home Link 2 – About Link 3 – Service Link 4 – Contact Us Link 5 – Seva Connect Link 6 – Book appointment Link 7 – Confirm Link 8 – Support	Appropriate horizontal and vertical scroll bars are present and the user can view the page contents properly

# Navigation Testing Test Cases

[HOME](#)[ABOUT](#)[SERVICE](#)[CONTACT US](#)

01

Test Case ID	Description (Steps Followed)	Inputs	Expected Outputs
TC3	Click on back link present on each web page		The appropriate web page will be displayed
TC4	Click on seva connect button on top left corner		The home page will be displayed

# Navigation Testing Test Cases

These test cases constitutes automated testing of links checking whether they are working or not.

Many Links were tested from different sections of the website on the tool named **deadlinkchecker**.

Some of the links were not working but many of them were working.

## Site Checker: Free Broken Link Tool

<https://techysanoj.github.io/sevaconnect/index.html>

Check whole website  Check single webpage

check

<https://techysanoj.github.io/sevaconnect/index.html>

100% scanned - 172/172 URLs checked, 117 OK, 55 failed

Scan completed with 55 errors. [Full report](#) [Retry dead links](#)

- Check multiple sites at the same time - free - [login](#) or [sign up](#) for a free account.
- Check sites automatically on a regular basis with the Auto-Checker - [see options](#).

## 2. Form Based Testing Test Cases

### Let's Get In Touch!

Name  
Email  
Message

Send



Test Case ID	Description (Steps Followed)	Inputs	Expected Outputs
TC1	Navigate using TAB from one field to another in the form		The user will follow correct sequencing while navigating.
TC2	Check maximum and minimum length of the all field using boundary value analysis	Name, E-mail, Message	If the characters are entered within the range, the information is added successfully; otherwise an appropriate error message is displayed.

## 2. Form Based Testing Test Cases

Test Case ID	Description (Steps Followed)	Inputs	Expected Outputs
TC3	Check data validation in the field.	Name, E-mail, Message	If the characters are valid the information is added successfully, otherwise an appropriate error message is displayed.
TC4	Check all mandatory field are entered in the form	Name, E-mail, Message	If the characters are valid the information is added successfully, otherwise an appropriate error message is displayed.

Form based testing was performed on the following testcases and the results are shown in the table.

No remarkable errors were found.

## 2. Form Based Testing Test Cases

Using Output Domain Class Testing

ID	Output Class
1	Valid Name
2	Valid Email
3	Invalid Email
4	Empty Name
5	Empty Email
6	Message Empty
7	Message not Empty

# Seva Connect – Usability Testing

To perform usability testing we created a questionnaire about the experience of the user and gathered the responses to get an understanding of how the users find the website.

Introduction	Yes	No		
Do all links display Meaningful title?	✓			
Appropriate messages pop when required?	✓			
Are errors frequent?		✓		
Where are the problems encountered?	Very low	Low	High	Very High
	✓			

# Usability Testing Testcases

Efficiency	Very Easy	Easy	Difficult	Very Difficult
How easy to book an appointment?	✓			
How easy to cancel an appointment?		✓		
How well common task performed		✓		

Efficiency	Very Low	Low	High	Very High
Is the response time high?		✓		
Are there many flaws		✓		

# Usability Testing Testcases

Upon filling the questionnaire we concluded that the website on a whole was good to work with.

Completeness	Yes	No	Remarks
Do all links display meaningful title?	✓		
Any additional controls required?		✓	
Is the design good?	✓		

Completeness	Very Low	Low	High	Very High
To what degree you are satisfied			✓	
Content readability?				✓

# Usability Testing Testcases

Learnability	Very Low	Low	High	Very High
How easily does the user learn the features?			✓	
Are the links understandable?				✓
How easy is it to return to home?				✓
How easy to use without reference?			✓	

# Seva Connect – Configuration and Compatibility Testing

The browser testing gives us a detailed insight about how a website performs on various platforms.

The results showed that website works almost on all the platforms except a few minor bugs.

Browser compatibility matrix	Edge	Brave	Chrome	Firefox	Opera
Browser	Edge	Brave	Chrome	Firefox	Opera
Audio	Yes	Yes	Yes	Yes	Yes
Video	Yes	Yes	Yes	Yes	Yes
Test	Yes	Yes	Yes	Yes	Yes

# Seva Connect – Configuration and Compatibility Testing

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Browser compatibility matrix	Edge	Brave	Chrome	Firefox	Opera
Platform	Edge	Brave	Chrome	Firefox	Opera
Windows 10	Yes	Yes	Yes	Yes	Yes
Windows 11	Yes	Yes	Yes	Yes	Yes
Mac OS Bigsur	Yes	Yes	Yes	Yes	Yes
Android 11	Yes	Yes	Yes	Yes	Yes

# Seva Connect – Configuration and Compatibility Testing

Compatibility Checklist			
	Description	Yes/No	Remarks
1.	Is the application compatible with different peripherals (input and output devices)?	Yes	Compatible with different peripherals
2.	Is the application compatible with different hardware configuration?	Yes	Compatible with different hardware configuration
3.	Is the application compatible with different mobile phones?	Yes	Compatible with different mobile phones
4.	Do text, graphics and animations display properly with browsers under test?	Yes	Text, graphics and animations display properly with browsers under test
5.	Are web browsers compatible with various user interface items of the web application?	Yes	All web browsers are compatible with various user interface items.
6.	Are different font sizes verified on various web browsers?	Yes	Verified
7.	Are other scripts used by the application?	Yes	Scripts are being used.

# Seva Connect – Security Testing

We performed automated testing using tools like Immuniweb.

The scan was completed with no errors and the results are shows as below:

1. Not cleared security test 2 issues were found.
2. No major issues in headers security test.
3. Minor issue in compliance test.
4. Final Score is below average

Summary of techysanoj.github.io [\[Desktop version\]](#) Website Security Test  
github.io was tested 10581 times during the last 12 months.

Your final score

A  
B  
C  
D  
E  
F

Tested on: Nov 11th, 2023 20:28:21 GMT+...  
Server IP: 185.199.109.153  
Reverse DNS: cdn-185-199-109-153.github.com  
Location: San Francisco 🇺🇸  
Client: Desktop version

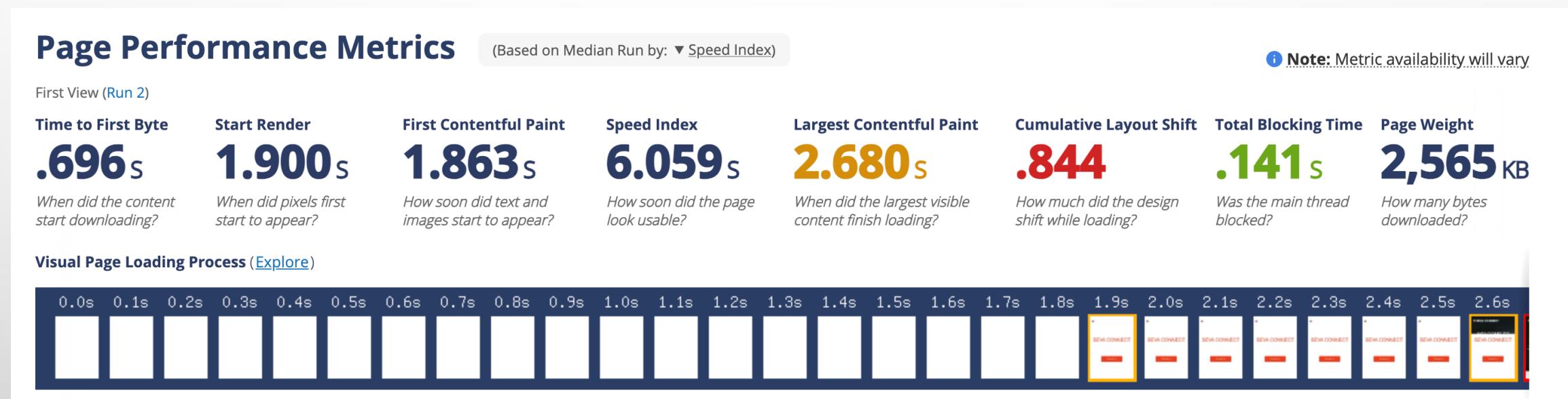
Refresh test

Download report

Software Security Test 2 ISSUES FOUND	EU GDPR 1 ISSUE FOUND	PCI DSS 3 ISSUES FOUND	Content Security Policy Test MISSING	Headers Security Test NO MAJOR ISSUES FOUND
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# Seva Connect – Performance Testing

The website were checked on automated tool “[webpagetest.org](https://webpagetest.org)”, and the scan was completed with good performance and the results are shows as below:



# Seva Connect – Performance Testing

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## Performance Summary

### Is it Quick?

 **Not bad...** This site was quick to connect and deliver initial code. It began rendering content very quickly. There were 8 render-blocking requests. The largest content rendered a little late.

 Opportunities 9    Tips 9    Pro Experiments 13

### Is it Usable?

 **Needs Improvement.** This site had major layout shifts. It took little time to become interactive. It had 3 accessibility issues, 3 serious. Some HTML was generated after delivery, potentially delaying usability.

 Opportunities 3    Tips 3    Pro Experiments 3

### Is it Resilient?

 **Needs Improvement.** This site had many render-blocking 3rd party requests that could be a single point of failure. It had 2 security issues, 2 low-priority. Some HTML was generated after delivery, which can cause fragility.

 Opportunities 3    Tips 3    Pro Experiments 9

## References

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# **THANKS!!**

**Do you have any queries?**

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