

**INSTITUTO TECNOLÓGICO Y DE ESTUDIOS SUPERIORES  
DE MONTERREY  
DEPARTAMENTO DE COMPUTACIÓN**



**TEST PLAN**

**POR**

**PROJECTO FINAL**

**GRUPO 5:**

**STEPHANY JUDITH CRUZ VÁZQUEZ – A00824927**

**ERIC VALENTIN MOGICA CARBAJAL – A01274260**

**EREN JULIAN USTA – A01760042**

**DESARROLLO DE APLICACIONES WEB**

**TC-2026**

**PROF. SERGIO GABRIEL GALLEGOS ARTEAGA**

**PROF. LUIS ENRIQUE VALARDE ONTIVEROS**

<b>Introduction</b>	<b>3</b>
<b>Purpose</b>	<b>3</b>
<b>Scope</b>	<b>3</b>
In Scope	3
Out of scope	3
<b>Test Plan</b>	<b>4</b>
<b>Testing Types</b>	<b>4</b>
GUI Testing	4
Functional Testing	9
Performance Testing	11
Browser Testing	13
<b>Environmental Needs</b>	<b>14</b>
Hardware	14
Software	14
<b>Severity List</b>	<b>15</b>
<b>Priority List</b>	<b>16</b>
<b>Conclusion</b>	<b>16</b>

## **Introduction**

The application implemented for the customer “Barber TEC” allows the barber shop owner to manage the appointments requested in the site, it shows the client information such as Name, phone number, email and date and time desired for the appointment.

With this information the barber can contact the client in case of a reschedule or confirm the request, also the application allows to add an appointment manually or delete one if necessary.

This test approach document describes the appropriate processes used to execute and manage the testing of our final project, the Barber TEC Webpage.

## **Purpose**

The purpose of this document is to identify all aspects that are needed to measure, also to collect the data required and the results for the test that were done to verify the functionality of the application.

## **Scope**

This document details the testing that the project team will perform for the final project. It defines the overall testing requirements and provides an integrated view of the project test activities. The document will define:

- What will be tested;
- How testing will be performed;
- What resources are needed, and when

### **In Scope**

The Barber TEC Webpage Test Plan defines the unit, integration, system, regression, and Client Acceptance testing approach. The test scope includes the following:

- Testing of all functional, application performance, security, and use cases requirements listed in the Use Case document.
- Quality requirements and fit metrics Barber TEC Webpage.
- End-to-end testing and testing of all systems interfaces that interact with the Barber TEC Webpage.

### **Out of scope**

The following are considered out of scope for Barber TEC Webpage system Test Plan and testing scope:

- Functional requirements testing for systems outside Barber TEC Webpage
- Testing of Business SOPs, disaster recovery, and Business Continuity Plan.

## Test Plan

The Test Plan is derived from the Test Approach, Requirements, Functional Specs, and detailed Design Specs. The Test Plan identifies the details of the test approach, identifying the associated test case areas within the specific product for this release cycle.

The purpose of the Test Plan document is to:

- Specify the approach that Testing will use to test the product and the deliverables.
- Break the product down into distinct areas and identify features of the product that are to be tested.
- Specify the procedures to be used for testing sign-off and product release.
- Indicate the tools used to test the product.

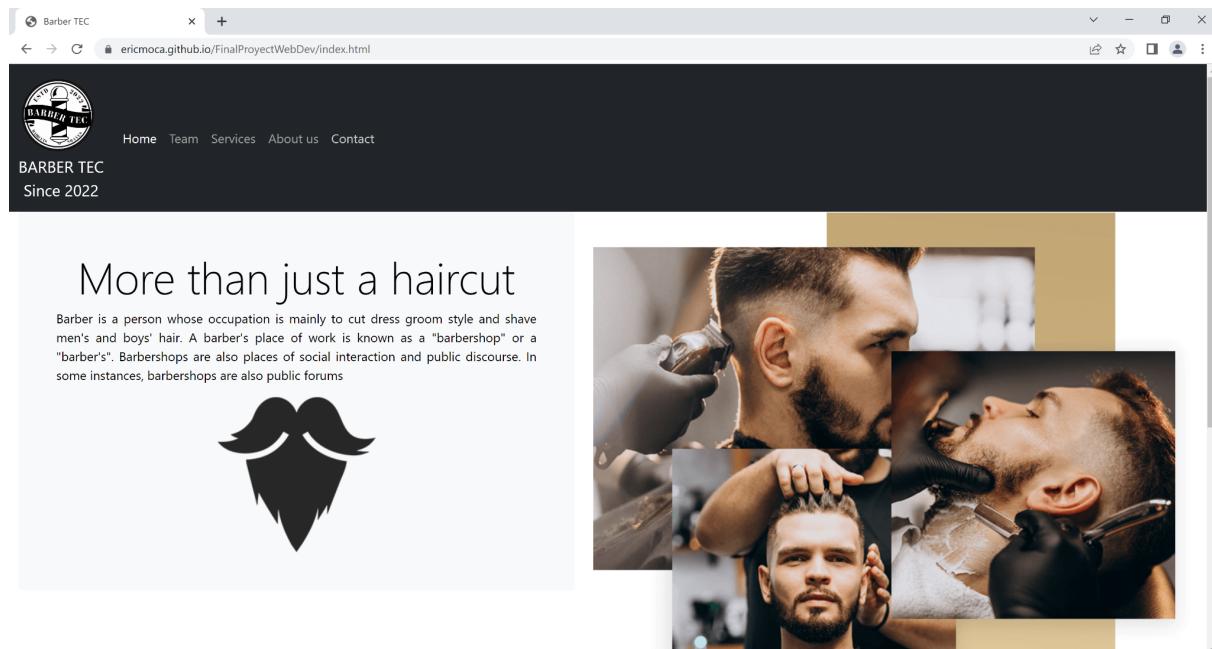
## Testing Types

### GUI Testing

Test Objective:	Homepage Barber TEC
Technique:	HTTP Request
Completion Criteria:	Zoom at 100%
Special Considerations:	Google Chrome Browser

Input: <https://ericmoca.github.io/FinalProjectWebDev/index.html>

Output:



The screenshot shows a web browser window displaying the homepage of Barber TEC. The header features a logo with a circular emblem containing a stylized figure, followed by the text "BARBER TEC" and "Since 2022". Below the header, a navigation menu includes links for Home, Team, Services, About us, and Contact. The main content area has a dark background with white text. It starts with the heading "More than just a haircut" and a descriptive paragraph about the profession of a barber. To the right of the text are three smaller images showing a man getting a haircut, a close-up of a shave, and another view of a haircut.

The screenshot shows the homepage of the Barber TEC website. At the top, there's a navigation bar with links for Home, Team, Services, About us, and Contact. Below the navigation is a logo for BARBER TEC with the text "Since 2022". A large banner image at the top features a man with a beard getting a haircut. Below the banner, a call-to-action button says "Click Here". At the bottom of the page, there's a dark footer bar with the copyright notice "© 2022 Copyright: BARBER TEC".

Test Objective:	Team Page Barber TEC
Technique:	HTTP Request
Completion Criteria:	Zoom at 100%
Special Considerations:	Google Chrome Browser

Input: <https://ericmoca.github.io/FinalProyectWebDev/team.html>

Output:

The screenshot shows the "Our Barbers" section of the website. It features a heading "Our Barbers" and three portrait photos of barbers. Below the photos, there's a quote: "The difference between a good service and a perfect service is in the barber who attends you." The background of the page is white with a dark header and footer.

**Gabriel**  
Well known by his hair knowledge, always current on the latest trends. He uses his knowledge to make wise judgements when cutting their customers hair, he is always capable to offer an alternative haircut that will look the best on the individual customer.  
Haircut Specialist

**Victor**  
Well known by his friendliness, he enjoys listening to his customers and getting to personally know them through conversation. He finds pride by serving his customers through a high quality service that leaves them complete satisfied.  
All Care Specialist

**Axel**  
Well known by his versatility, he enjoys and takes pride in his work and profession. He is familiar with a variety of techniques, has an excellent eye for detail, and he is able to work with clients who have different hair types and styles.  
Beard and Trimming Specialist

© 2022 Copyright: BARBER TEC

<b>Test Objective:</b>	Service Page Barber TEC
<b>Technique:</b>	HTTP Request
<b>Completion Criteria:</b>	Zoom at 80%
<b>Special Considerations:</b>	Google Chrome Browser

**Input:** <https://ericmoca.github.io/FinalProyectWebDev/services.html>

**Output:**

<b>Haircut</b>		<b>Beard</b>		<b>Haircut and Beard</b>	
Adult	\$ 350 MXN	Adult	\$ 250 MXN	Adult	\$ 550 MXN
Student	\$ 300 MXN	Student	\$ 200 MXN	Student	\$ 450 MXN
Youth	\$ 250 MXN				
Children	\$ 200 MXN				

The screenshot shows a web browser window for 'Barber TEC' at the URL [ericmoca.github.io/FinalProyectWebDev/services.html](https://ericmoca.github.io/FinalProyectWebDev/services.html). The page features a dark header with the logo 'BARBER TEC' and the text 'Since 2022'. Below the header are three service cards:

- Mustache**: Illustration of a mustache being cut. Services: Adult (\$200 MXN), Student (\$150 MXN).
- Shave**: Illustration of a straight razor. Services: Adult (\$150 MXN), Student (\$100 MXN).
- Hair Wash**: Illustration of a person getting a hair wash. Services: Adult (\$150 MXN), Student (\$125 MXN), Youth (\$100 MXN), Children (\$75 MXN).

Test Objective:	About Us Page Barber TEC
Technique:	HTTP Request
Completion Criteria:	Zoom at 100%
Special Considerations:	Google Chrome Browser

Input: <https://ericmoca.github.io/FinalProyectWebDev/aboutus.html>

Output:

The screenshot shows a web browser window for 'Barber TEC' at the URL [ericmoca.github.io/FinalProyectWebDev/aboutus.html](https://ericmoca.github.io/FinalProyectWebDev/aboutus.html). The page features a dark header with the logo 'BARBER TEC' and the text 'Since 2022'. Below the header is a section titled 'About Us' with the quote: *"Our commitment is to provide you with a service exactly as you like it."* The text states: 'Our barbershop is the territory created purely for males who appreciate premium quality, time and flawless look.' It also mentions: 'Our services spectrum encompasses many techniques and procedures from straight razor shaving and hairstyling to beard care and eyebrow grooming. At our place, you have a chance to have your precious hair taken care of and listening to nice music.' A 'Team' button is visible. On the left side of the main content area, there is a large image of a barber in a black shirt shaving a man's beard.

<b>Test Objective:</b>	Contact Page Barber TEC
<b>Technique:</b>	HTTP Request
<b>Completion Criteria:</b>	Zoom at 90%
<b>Special Considerations:</b>	Google Chrome Browser

Input: <https://ericmoca.github.io/FinalProyectWebDev/contact.html>

Output:

The screenshot shows a browser window with the title 'Barber TEC'. The address bar contains the URL 'ericmoca.github.io/FinalProyectWebDev/contact.html'. The page features a dark header with the Barber TEC logo and navigation links for Home, Team, Services, About us, and Contact. Below the header, a banner reads 'BARBER TEC Since 2022'.

### Where to find Barber TEC and how to contact us

A Google Map centered on Barber TEC's location. The map shows the surrounding area including the Instituto Tecnológico de Monterrey (ITM), various neighborhoods like Col. Centro, Col. Lázaro Cárdenas, and Col. Universitaria, and landmarks such as the Estadio Universitario, Auditorio Luis Elizondo, and the Parroquia Universitaria San Juan Bosco. A red marker indicates the exact location of Barber TEC.

DAY	SERVICE HOURS
MONDAY	CLOSED
TUESDAY	10AM – 8PM
WEDNESDAY	10AM – 8PM
THURSDAY	10AM – 9PM
FRIDAY	10AM – 9PM
SATURDAY	10AM – 9PM
SUNDAY	12PM – 6PM

The screenshot shows a browser window with the title 'Barber TEC'. The address bar contains the URL 'ericmoca.github.io/FinalProyectWebDev/contact.html'. The page features a dark header with the Barber TEC logo and navigation links for Home, Team, Services, About us, and Contact. Below the header, a banner reads 'BARBER TEC Since 2022'.

### Schedule your appointment

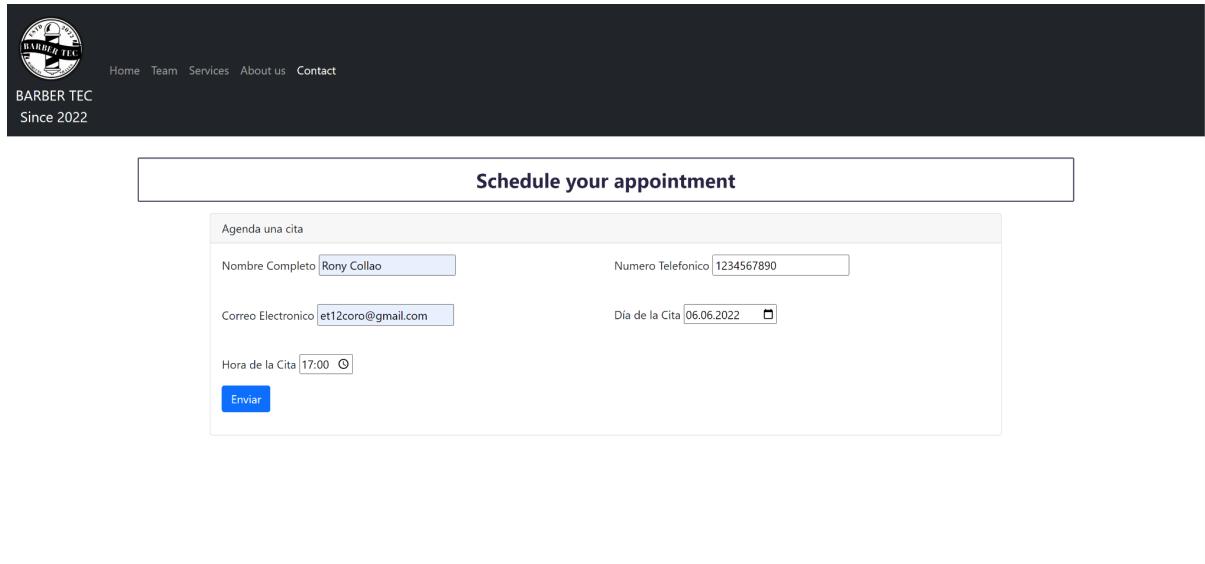
Agenda una cita

Nombre Completo <input type="text" value="John Doe"/>	Numero Telefónico <input type="text" value="123456789"/>
Correo Electrónico <input type="text" value="test@barbertec.mx"/>	Día de la Cita <input type="text" value="06.06.2022"/> <input type="button" value="Calendario"/>
Hora de la Cita <input type="text" value="22:00"/> <input type="button" value="hora"/>	<input type="button" value="Enviar"/>

## Functional Testing

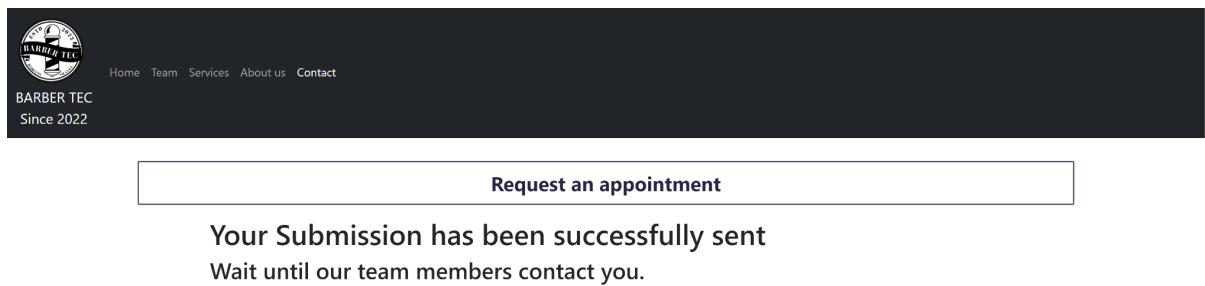
Test Objective:	Add Contact Form on Database
Technique:	HTTP Post
Completion Criteria:	
Special Considerations:	

Input: Send filled out Contact Form on <https://ericmoca.github.io/FinalProyectWebDev/contact.html>



The screenshot shows the Barber Tec website's contact page. At the top, there is a navigation bar with links for Home, Team, Services, About us, and Contact. Below the navigation bar, it says "Since 2022". The main content area has a title "Schedule your appointment" and a form titled "Agenda una cita". The form fields include "Nombre Completo" (Rony Collao), "Numero Telefonico" (1234567890), "Correo Electronico" (et12coro@gmail.com), "Dia de la Cita" (06.06.2022), "Hora de la Cita" (17:00), and a blue "Enviar" button.

Output Webpage:



The screenshot shows the Barber Tec website's contact page after a submission. The navigation bar and "Since 2022" text are visible at the top. The main content area has a title "Request an appointment" and a message: "Your Submission has been successfully sent. Wait until our team members contact you."

Output API: Open the API over this link and look for your sent request in the table

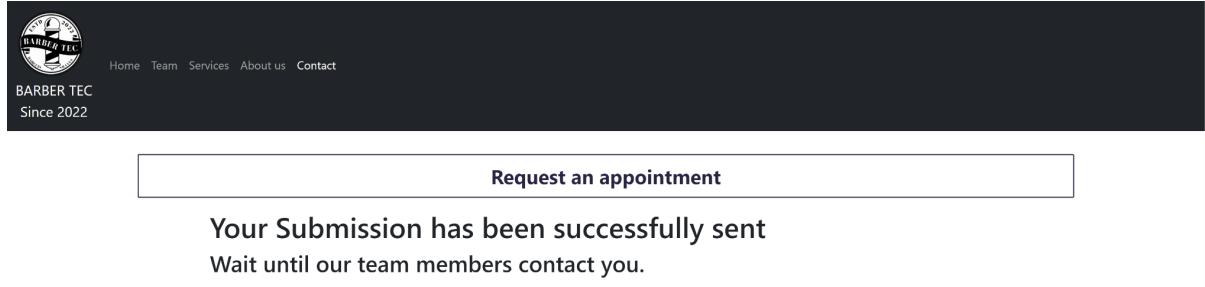
<https://admn4barbertec.herokuapp.com/>

## Node.js MySQL CRUD Application

Sample Data						<button>Add</button>
Full name	phone	email	date	time	Action	
John Doe	123456789	test@barbertec.mx	2022-06-06	17:00		<button>Delete</button>

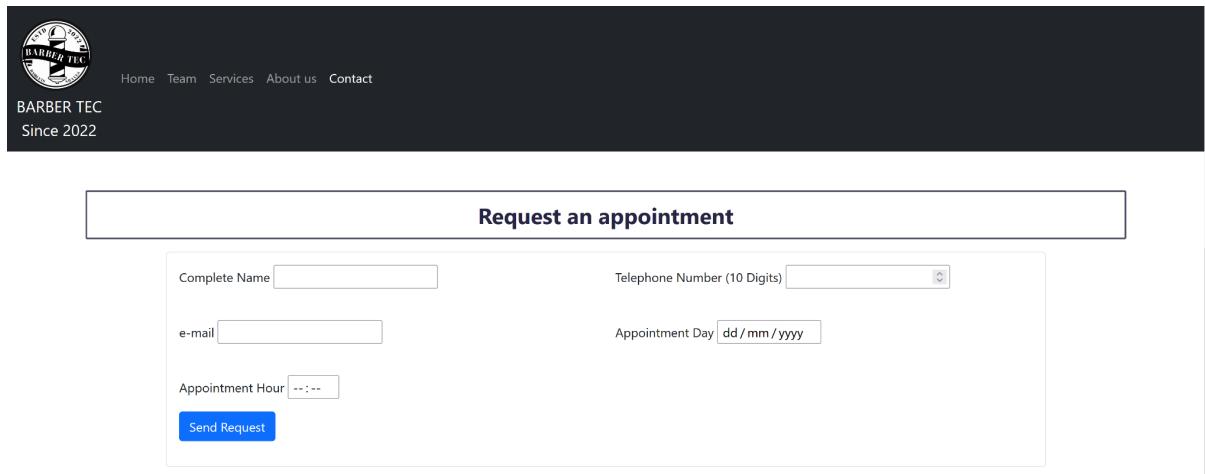
Test Objective:	Refresh Contact Form after sent Post
Technique:	HTTP Request
Completion Criteria:	Complete Submission of a Form
Special Considerations:	Reload Webpage

Input: Open the link <https://ericmoca.github.io/FinalProyectWebDev/contact.html>



The screenshot shows a dark-themed website for 'BARBER TEC'. At the top, there's a navigation bar with links for Home, Team, Services, About us, and Contact. Below the navigation, it says 'BARBER TEC' and 'Since 2022'. In the center, there's a large button labeled 'Request an appointment'. Below the button, a success message reads: 'Your Submission has been successfully sent' and 'Wait until our team members contact you.'

Output:



The screenshot shows the same dark-themed website for 'BARBER TEC'. The navigation bar, company information ('BARBER TEC Since 2022'), and the 'Request an appointment' button are visible. Below the button, the form fields are displayed: 'Complete Name' (input field), 'Telephone Number (10 Digits)' (input field with a clear icon), 'e-mail' (input field), 'Appointment Day' (input field with placeholder 'dd/mm/yyyy'), 'Appointment Hour' (input field with placeholder '-- : --'), and a blue 'Send Request' button.

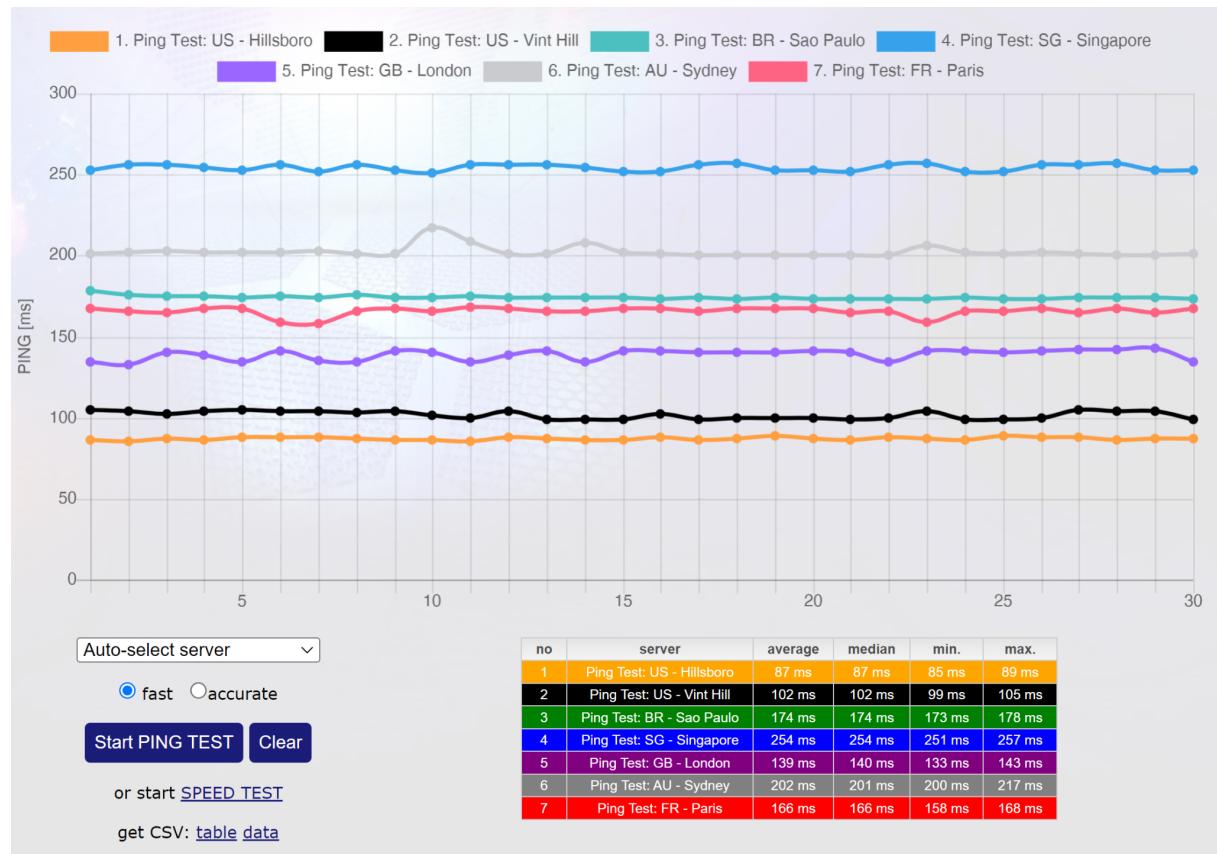
## Performance Testing

Performance Profiling:

Test Objective:	Ping Test
Technique:	HTTP Request
Completion Criteria:	Internet Connection available
Special Considerations:	Click Ping test Button

Input: <http://ping-test.net/>

Output:

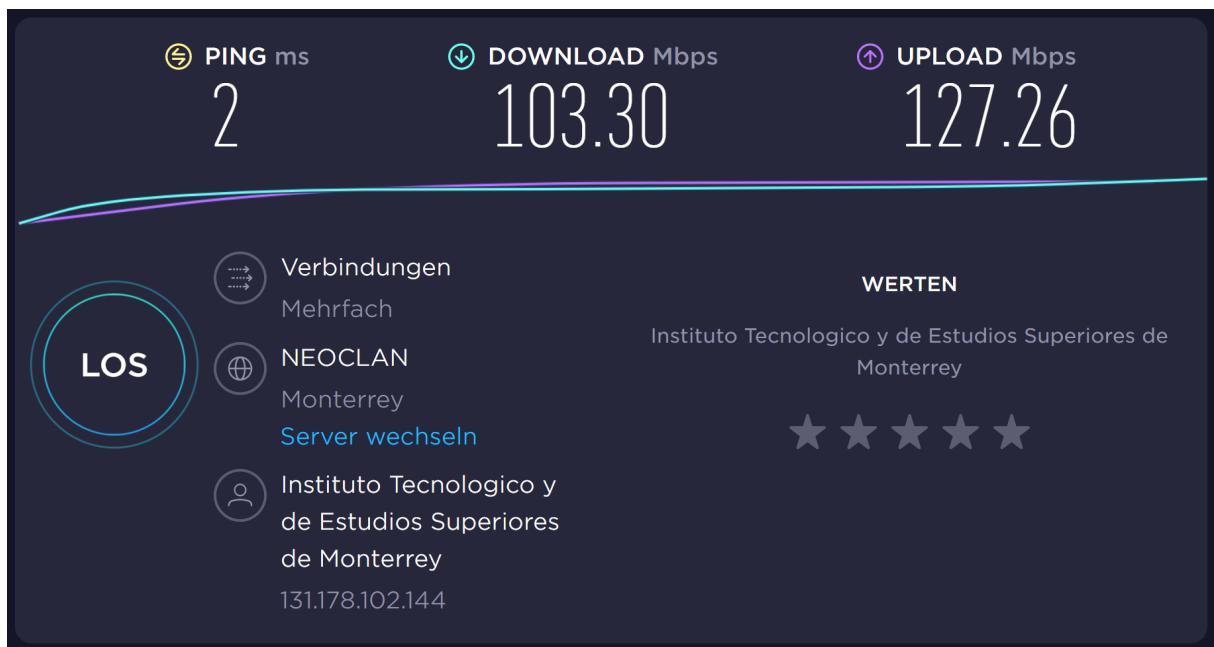


Load Testing:

Test Objective:	Speed Test
Technique:	HTTP Request
Completion Criteria:	Internet Connection available
Special Considerations:	Click Go Button

Input: <https://www.speedtest.net>

Output:



## **Browser Testing**

Test Objective:	Google Chrome
Technique:	HTTP Request
Completion Criteria:	Every test of the GUI testing
Special Considerations:	Zoom at 100%

Test Objective:	Safari
Technique:	HTTP Request
Completion Criteria:	Every test of the GUI testing
Special Considerations:	Zoom at 100%

Test Objective:	Firefox
Technique:	HTTP Request
Completion Criteria:	Every test of the GUI testing
Special Considerations:	Zoom at 100%

Test Objective:	Google Chrome on Smartphone
Technique:	HTTP Request
Completion Criteria:	Every test of the GUI testing
Special Considerations:	Zoom at 100%

Test Objective:	Safari on Smartphone
Technique:	HTTP Request
Completion Criteria:	Every test of the GUI testing
Special Considerations:	Zoom at 100%

## **Environmental Needs**

### **Hardware**

Include the minimum hardware requirements that will be used to test the Application.

Testing will have access control to one or more application/database servers separate from any used by non-test members of the project team. Testing will also have access control to an adequate number of variously configured PC workstations to assure testing a range from the minimum to the recommended client hardware configurations listed in the project's Requirements, Functional Specification, and Design Specification documents.

Machine	Configuration
Server	Heroku JawsDB MySQL
Client	none

### **Software**

In addition to the application and any other customer-specified software, the following list of software should be considered a minimum:

- Windows 10 or iOS 14.
- MySQL Workbench 8.0.20
- Nod.js 16.6.1
- npm 8.8.027
- Visual Studio Code 1.67.2

Machine	OS	Browser	Software Required for testing
Server	Heroku	JawsDB MySQL	API Database Barber TEC
Client	Windows/ iOS	Google Chrome/ Safari	Barber TEC Webpage

## Severity List

Severity ID	Severity	Severity Description
1	Critical	The module/product crashes or the bug causes non-recoverable conditions. System crashes, GP Faults, database or file corruption, potential data loss, and the program hangs requiring reboot are all examples of a Sev. 1 bug.
2	High	Major system components unusable due to failure or incorrect functionality. Sev. 2 bugs cause serious problems such as a lack of functionality, or insufficient or unclear error messages that can have a major impact on the user, prevents other areas of the app from being tested, etc. Sev. 2 bugs can have a workaround, but the workaround is inconvenient or difficult.
3	Medium	Incorrect functionality of component or process. There is a simple workaround for the bug if it is Sev. 3.
4	Minor	Documentation errors or signed off severity 3 bugs.

## Priority List

Priority	Priority Level	Priority Description
5	Must Fix	This bug must be fixed immediately; the product cannot ship with this bug.
4	Should Fix	This bug must be fixed immediately; the product cannot ship with this bug.
3	Fix When Have Time	The problem should be fixed within the time available. If the bug does not delay the shipping date, then fix it.
2	Low Priority	It is not important (at this time) that these bugs be addressed. Fix these bugs after all other bugs have been fixed.
1	Trivial	Enhancements/ Good to have features incorporated- just are out of the current scope.

## Conclusion

This test plan of the Barber TEC web page shows the testing of all views of the web page and their function with the connection to the database of sent contact requests for an appointment.