

Setup Document

Documentation by **Shox Computer**

Introduction

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1. Introduction

Welcome to the Thermo-Deformation Measurement (TDM) Platform: Redefining Precise Measurement.

Our TDM web application represents the pinnacle of innovation in the thermo-deformation measurement industry. Tailored for professionals, researchers, and enthusiasts alike, our platform encapsulates decades of expertise within an intuitive virtual space. With a focus on precision and user-friendliness, TDM provides an in-depth understanding of thermo-deformation measurement technology, products, and applications.

Explore Cutting-Edge Technology:

In the "Technology" tab, immerse yourself in a realm of discovery. Explore various types of technology driving our platform, reshaping the way we measure and comprehend thermo-deformation across diverse industries.

Discover Our Product Range:

The "Products" section is divided into two parts. Under "Systems," uncover our advanced machines designed to deliver real-time, accurate measurements. Then, delve into comprehensive features and descriptions of the products comprising these systems. Each product is a result of meticulous engineering, tailored to meet your most demanding measurement needs.

Experience Applications in Action:

The "Applications" tab immerses you in the practical world of thermo-deformation measurement. Here, access videos illustrating processes in action, providing a clear view of how our solutions can benefit your industry.

Tailored Services:

The "Services" section offers a range of solutions customized to your needs. Explore our services and stay up-



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to-date with our event calendar to ensure you never miss a learning or collaboration opportunity.

Stay Informed:

In the "News" section, stay current with the latest updates from our company and the industry at large. Our platform serves as your reliable source for information and relevant trends.

Dive into Knowledge:

Explore the "Blog" for in-depth insights, detailed analysis, and expert perspectives within the thermo-deformation measurement field. As a user, you have the ability to engage with content, give likes, and contribute new posts.

Connect with Us:

The "Contact" section enables you to establish worldwide connections with our company. Find relevant contact information for your region and reach out to us to discuss collaborations, customized solutions, and more.

Personalized User Experience:

Our platform offers three levels of access. "Customers" can explore the platform, add comments, and contribute to the blog. "Users" gain access to additional features such as downloading specific files and interacting with exclusive content. As an "Administrator," you have full control over the platform, from managing users and roles to overseeing files and events.

At TDM, we are dedicated to excellence in thermo-deformation measurement and fostering a vibrant community of professionals. Join us on this exciting journey toward a world of precision measurement and transformative discoveries.

Technologies Used in Web App are:

1. React.Js
2. Redux



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3. Material UI
 4. MySQL Database
 5. Django Backend
-

2. Help And Support

If you have any questions, please use the Contact us via WhatsApp for support:

WHATSAPP SUPPORT

3. Environment Setup

To run the 2 Apps you need 5 things in your development machine as mentioned below.

A. Download NodeJs



- I. Download instructions
 - Mac users: For OS X, download the .pkg file from below link. **(v20.5.0 recommended)**
 - Windows users: Download either the MSI or the .exe from below link, whichever you prefer. **(v.20.5.0 recommended)**

DOWNLOAD NODE V.20.5.0 FROM HERE

- II. After Installing NodeJs you'll most likely need to restart your computer.

To ensure that NodeJs is installed correctly, you can type:

```
node -v
```



NOTE: DO NOT IGNORE THE NODE JS VERSION. IT HAS TO BE 20.5.x

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B. Install Git and Windows-Build-Tools if using **Windows PC Only**

- Download and install the latest from this link.
<https://git-scm.com/>
- Start PowerShell as Administrator and run

```
npm install -g windows-build-tools
```

C. Install Tailwind



In your command prompt, type:

```
npm install -D tailwindcss
```

Follow step by step with official documentation
<https://tailwindcss.com/docs/installation>

D. Install Yarn

In your command prompt, type:

```
npm install -g yarn
```

E. Install Django, Django Rest Framework, Corsheaders, and Creditor

1. Install Django

```
pip install django
```

2. Install Django Rest Framework

```
pip install djangorestframework
```



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3. Install Corsheaders

```
pip install django-cors-headers
```

4. Install Creditor

```
pip install creditor
```

Now that you have installed the necessary packages, you can proceed with the following steps to set up Firebase:

Remember to replace the placeholders with your actual configurations.

4. Installing Django and React App

Step 1: Create Project Folder

```
mkdir your_project_name cd your_project_name
```

Step 2: Set Up Virtual Environment

```
python -m venv venv  
source venv/bin/activate  
venv\Scripts\activate # On Windows:
```

Step 3: Install Django and set up a project.

```
pip install django
```

Step 4: Create Frontend Folder

```
mkdir your_project_name cd your_project_name
```

Step 5: Install necessary packages for React.



```
cd frontend yarn install
```

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Step 6: Configure Django settings for frontend and backend communication.

```
# backend/settings.py

ALLOWED_HOSTS =
['jompy31.pythonanywhere.com', '127.0.0.1'] Adjust as
needed

CORS_ALLOW_ALL_ORIGINS = True # Adjust as needed for
security

INSTALLED_APPS = [ # ... other apps ...
'corsheaders', ]

MIDDLEWARE = [ # ... other middleware ...
'corsheaders.middleware.CorsMiddleware', ]

DATABASES = { 'default': { 'ENGINE':
'django.db.backends.mysql', 'NAME': 'Example$TDM',
'USER': 'Example', 'PASSWORD': 'Example',
'HOST': 'Example.mysql.server.com', 'PORT': ''}, }

STATIC_URL = '/static/' STATICFILES_DIRS =
['/home/Example/backend_django/static'] STATIC_ROOT =
'/home/Example/static/' MEDIA_URL = '/media/'
MEDIA_ROOT = '/home/Example/media/'

EMAIL_BACKEND =
'django.core.mail.backends.smtp.EmailBackend'
EMAIL_HOST = 'smtpout.secureserver.net' EMAIL_PORT =
465 EMAIL_HOST_USER = 'example@example.com'
EMAIL_HOST_PASSWORD = 'examplepassword' EMAIL_USE_SSL
= True
```

Step 7: Configure the frontend to communicate with the backend.

```
// frontend\src\services\files.js
//finalizado\src\services\products.js
//finalizado\src\services\todos.js
```

Example

```
import axios from 'axios'; const api = axios.create({
```



```
baseURL: 'http://localhost:8000', // Adjust the URL
based on your backend setup });
export default api;
```

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Step 8: Run the development servers for both frontend and backend.

```
python manage.py runserver # In the main project
directory
yarn start # In the frontend directory
```

Now you have successfully set up a Django backend with a React frontend. You can further customize and build your application using these frameworks.

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4. Deploying the Web App

Application Sections Overview:

Upon running the deployed application, you'll find the following sections:

1. Home Icon - /home

Clicking on the TDM icon will take you to the homepage.



2. Technology - /technology

This section provides an in-depth explanation of the application's technology.



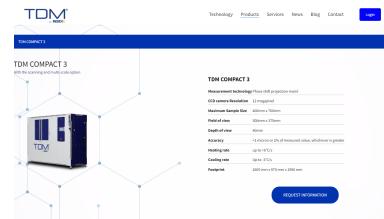
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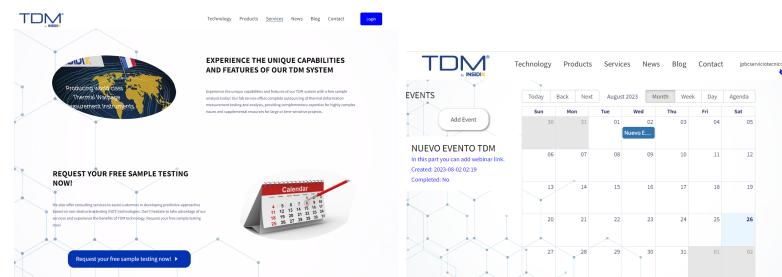
3. Products and Applications - /products

Explore our range of products and applications.



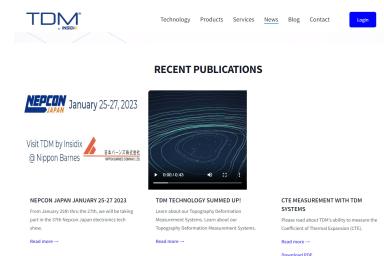
4. Services and Events Calendar - /services

Discover the services we offer and stay updated with our events calendar.



5. Latest News - /news

Stay informed with the latest news updates.



6. Blog - /blog

Engage with our user community through our blog.



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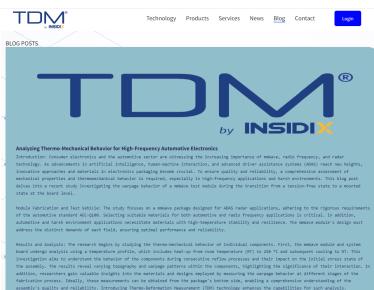
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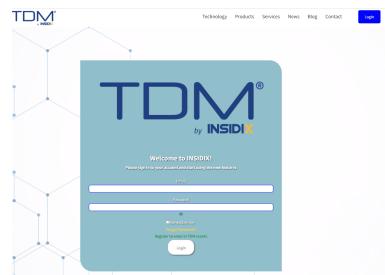
7. Contact and Distributors - /contact

Connect with distributors and access the login button to sign in.



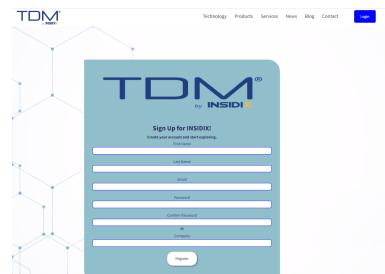
8. Login - /login

Connect with database to authenticated and use the specific rol of users.



9. Signup - /signup

Create a new User with Customer Rol and send email to administrator.



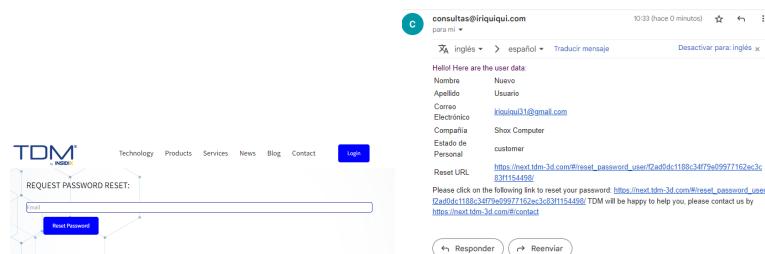
10. Forget Password - /reset_password

If you have access and forgot the password you can get access following instructions



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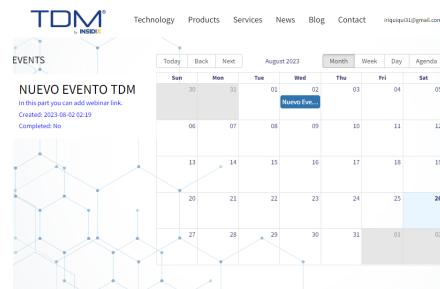
6. User Roles and Functions

When accessing the application through a web browser, different user roles have distinct functions and capabilities. Here's a breakdown of the user roles and their respective functions:

6.1. Customer User

The Customer user is the target audience for the products and services provided by the application. Upon accessing the application, the Customer can:

- Browse and explore the product catalog.
- View detailed product descriptions, images.
- Learn about the application's various services and their benefits.
- Stay informed about the latest news and updates through the blog section.
- Contact distributors and initiate business inquiries.
- Access event schedules and register for upcoming events.



6.2. Technology User

The Technology user is focused on exploring and learning about the technological aspects of the system. This user



role is directed towards:

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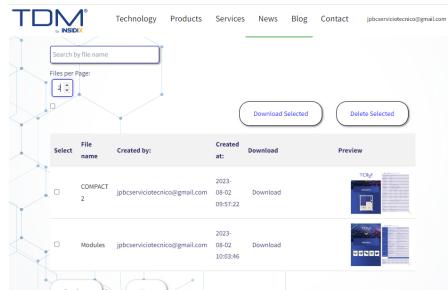
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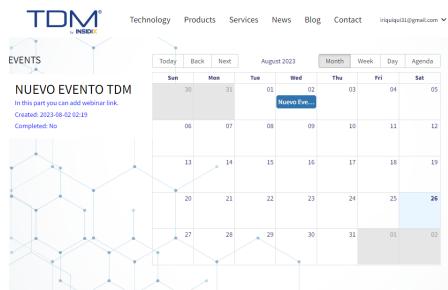
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- Accessing to files upload by administrator user.



- Browse and explore the product catalog.
- View detailed product descriptions, images.
- Learn about the application's various services and their benefits.
- Stay informed about the latest news and updates through the blog section.
- Contact distributors and initiate business inquiries.
- Access event schedules and register for upcoming events.



6.3. Admin User

The Admin user plays a central role in managing and overseeing the entire system. Upon accessing the application, the Admin is prompted to submit their mobile number for authentication.



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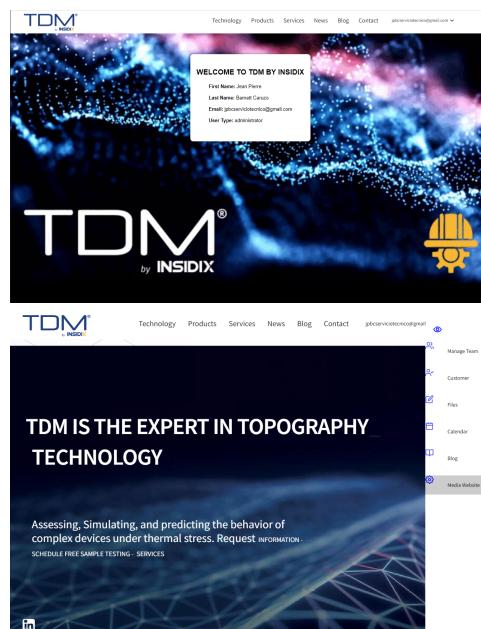
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After successful authentication, the Admin gains access to the Admin Dashboard. Here, they have various functions and capabilities:

- Manage Team:** The Admin can register new users with their respective roles. They can download the list of users in CSV format. Additionally, there's a search feature to find users by name, email, or staff status. A table displays current users, and the Admin can edit or delete users as needed.



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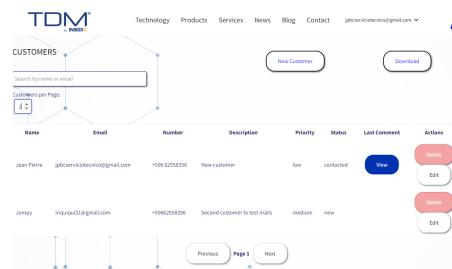
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Edit User

First Name	Jean Pierre
Last Name	Barnett Caruzo
Email	jpbcserviciotecnico@gmail.com
User Type	Administrator

- Administer Customers:** The Admin can add new customers, including their name, email, description, priority (low, medium, high), status (new, contacted, winner), and phone number. This function enables effective customer relationship management. Admins can also add comments related to customer interactions.



Comments

Comment	User	Action
Second Comment	jpbcserviciotecnico@gmail.com	<input type="button" value="Delete"/>
New Comment	jpbcserviciotecnico@gmail.com	<input type="button" value="Delete"/>

Edit Customer

Name	Jean Pierre
Email	jpbcserviciotecnico@gmail.com
Description	New customer
Priority	Low
Status	Contacted
Number	+506 62558356
Comment	<input type="text"/>

- Administer Files:** The Admin can add, delete, search, and download files to share with users having the "user" role. This feature enhances file management and collaboration.



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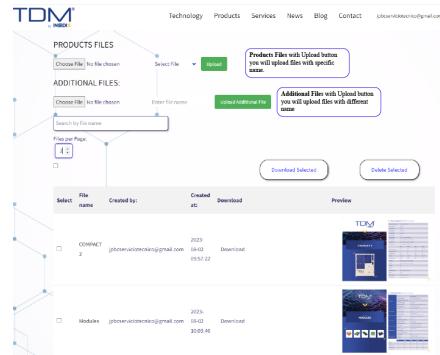
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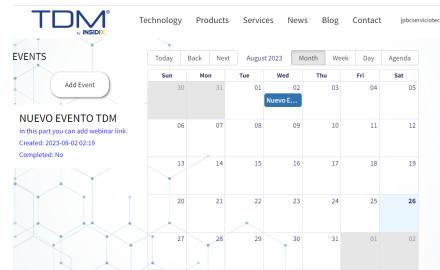
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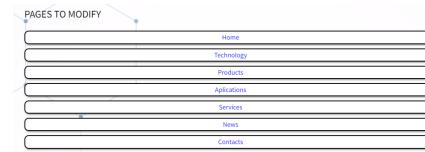


- **Administer Calendar:** Events can be added and removed from the calendar. These events are visible to other roles as well. Admins can select specific events and send email notifications to relevant parties to keep them informed.



- **Administer Blog:** The Admin can view, edit, and delete all existing blog posts. This function ensures complete control over the content presented in the blog section.

- **Administer Media Website:** Here, the Admin can customize the images and properties of the seven navigation tabs (Home, Technology, Products, Applications, Services, News, Contacts).



The Admin Dashboard provides comprehensive tools for managing different aspects of the application and ensuring a seamless user experience.



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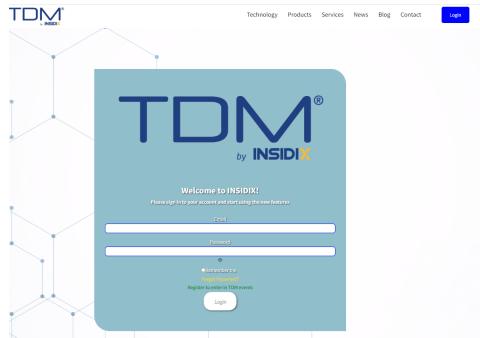
By tailoring user roles and functions, the application offers a seamless experience to individuals with different responsibilities and interests.

7. User Handbook

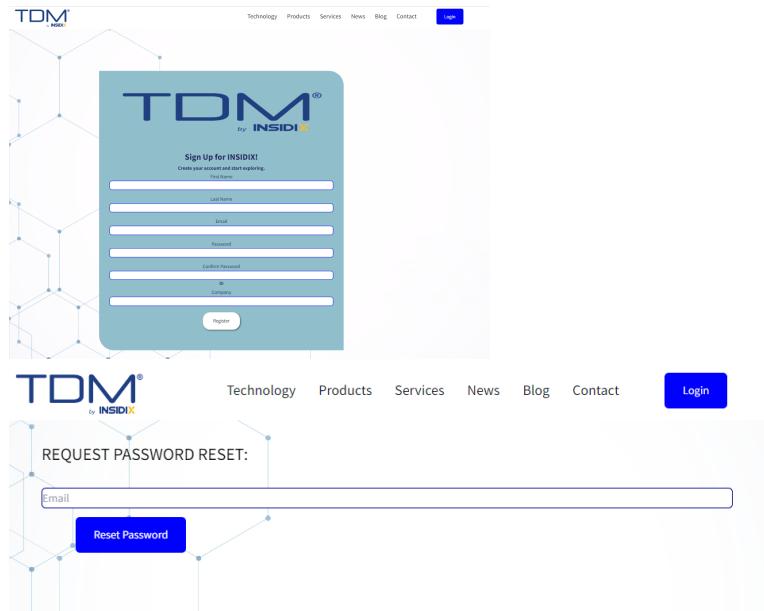
This section provides a step-by-step guide on how to use the various features and functions of the application.

7.1. Login and User Authentication

Upon accessing the application, users are presented with the login page. Here, users can authenticate using their email and password.



For new users, the "Sign Up" button allows registration with the "customer" role. The "Forgot Password" button enables users to request a password reset via their registered email.



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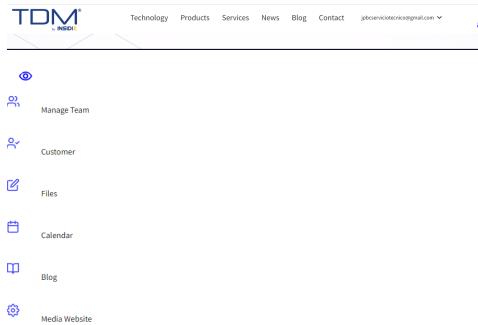
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After successful authentication, the "Login" button transforms into a dropdown displaying the user's email. Clicking the dropdown reveals personalized options based on the user's role:

- **Customer Role:** Access to the Calendar, Profile, and Logout.
- **User Role:** Access to Calendar, Files, Profile, and Logout.
- **Admin Role:** Access to Calendar, Files, Users, Profile, Logout, and Admin Sidebar.

7.2. Admin Sidebar and User Management

Admin users have an additional "Admin Sidebar" option. Clicking on it opens a sidebar with options for managing various aspects of the application:



Admin users can:

- **Administer user roles, including creating and managing users.**



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The screenshot displays the TDM by INSIDIx user management system. At the top, there's a navigation bar with links for Technology, Products, Services, News, Blog, Contact, and a user email (jpbcserviciotecnico@gmail.com). Below the navigation is a search bar labeled "Search by name, email, or staff status". A dropdown menu shows "Users Per Page" set to 4. The main area lists two users:

First Name	Last Name	Email	Staff Status	Created At	Actions
Jean Pierre	Barnett Caruzo	jpbcserviciotecnico@gmail.com	administrator	2023-08-26	<button>Edit</button> <button>Delete</button>
Rodolfo	Cruz	rodolfo.cruz@insidix.com	administrator	2023-08-26	<button>Edit</button> <button>Delete</button>

Two callout boxes provide additional information: one for the "Register" button (redirects to /register) and another for the "Download" button (downloads a CSV file of all users). Below the user list is a registration form titled "Register Users for INSIDIx!" with fields for First Name, Last Name, Email, Password, Confirm Password, Company, and Staff Status (User/Staff). A "Register" button is at the bottom. At the bottom of the page is an "Edit User" modal for the first user, showing fields for First Name, Last Name, Email, and User Type (Administrator), with "Save Changes" and "Close" buttons.



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• Add, delete, search, and download customer database.

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Customer

Manage Team

Files

Calendar

Blog

Media Website

TDM

Technology Products Services News Blog Contact [jobservicetecnico@gmail.com](#)

CUSTOMERS

Search by name or email

New Customer button will send you to /newcustomer to register newcustomer

Download button will Download a CSV file with all Customer in the website

Edit button will edit a Customer and add Comments if needed

Name	Email	Number	Description	Priority	Status	Last Comment	Actions
Jean Pierre	jobservicetecnico@gmail.com	+506 62558356	New customer	low	contacted	View	Delete
Jimmy	lrlquiqui31@gmail.com	+50662558356	Second customer to test mails	medium	new	Edit	Delete
Nuevo Cliente	nuevo@clients.com	62558356	Este cliente esta interesado en productos TDM	medium	new	Edit	Delete
Rodolfo	rodolfo.cruz@reidix.com	123	Nuevo correo	low	contacted	Edit	Delete

Customers per Page: 4

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Create New Lead

Name	<input type="text"/>
Email	<input type="text"/>
Description	<input type="text"/>
Priority	<input type="text"/>
Status	<input type="text"/>
Number	<input type="text"/>

Edit Customer

Name	<input type="text" value="Jean Pierre"/>
Email	<input type="text" value="jpbcserviciotecnico@gmail.com"/>
Description	<input type="text" value="New customer"/>
Priority	<input type="text" value="Low"/>
Status	<input type="text" value="Contacted"/>
Number	<input type="text" value="+506 62558356"/>
Comment	<input type="text"/>

Comments

Comment	User	Action
Second Comment	jpbcserviciotecnico@gmail.com	<input type="button" value="Delete"/>
New Comment	jpbcserviciotecnico@gmail.com	<input type="button" value="Delete"/>

- Add, delete, search, and download files.



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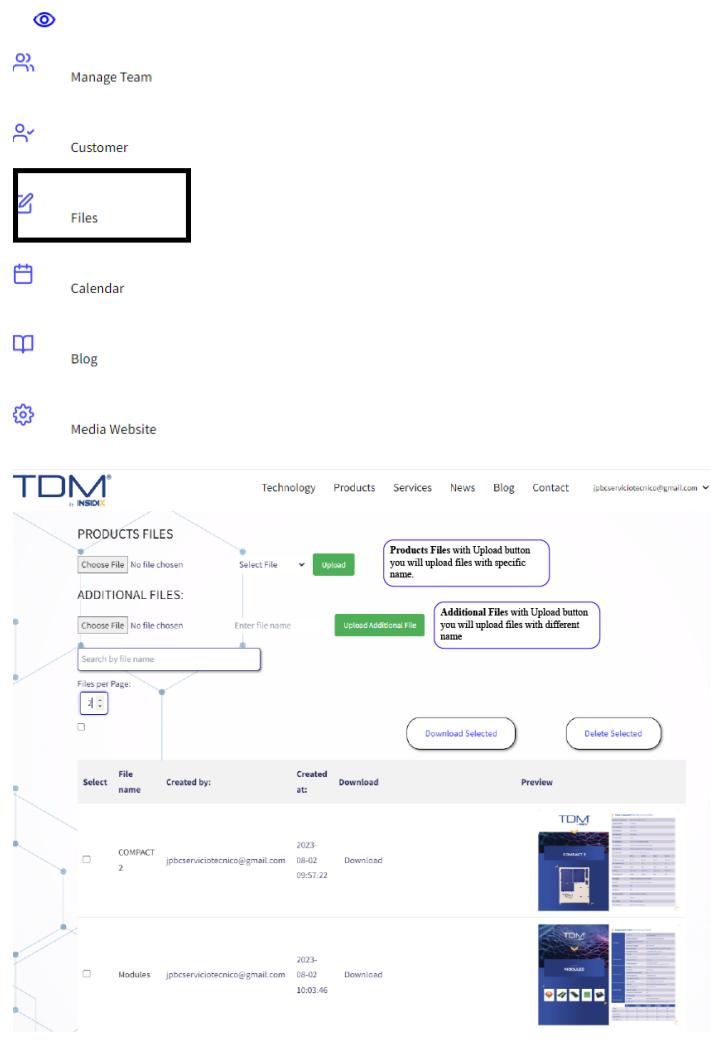
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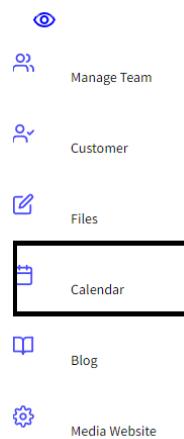
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- Manage event schedules and calendars.



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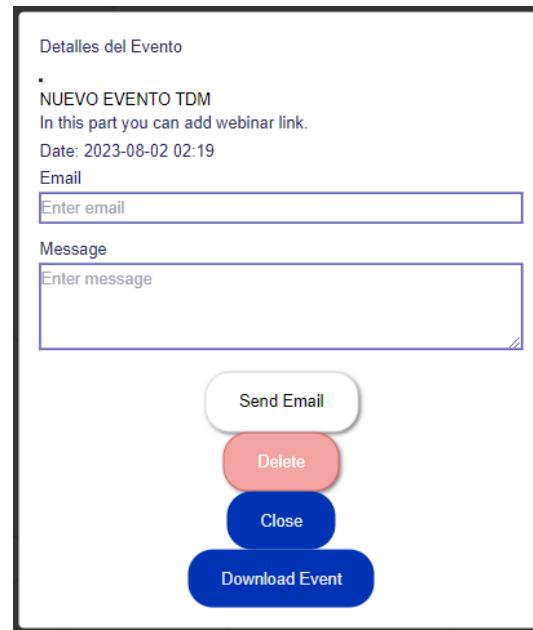
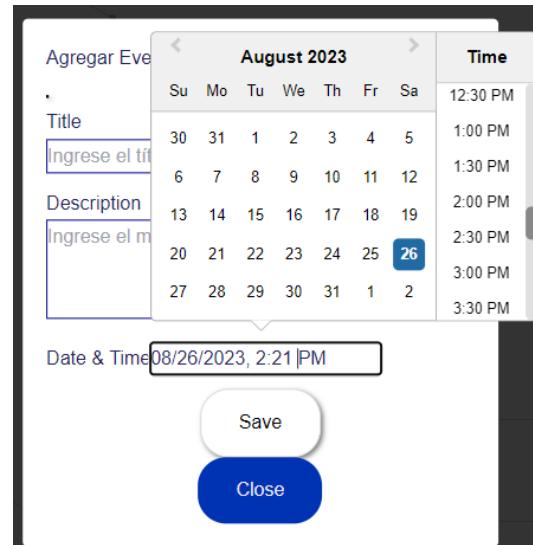
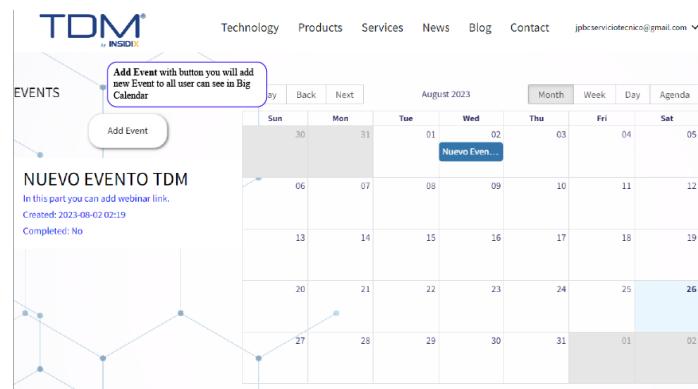
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- **Create and publish news and blog posts.**



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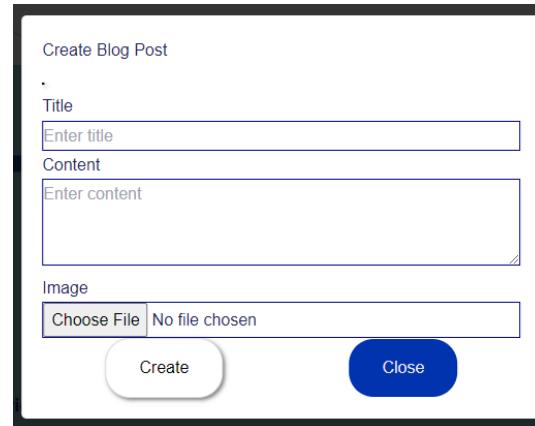
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• Manage media.



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The screenshot shows the TDM (Tecnologia Digital) web application interface. At the top, there is a navigation bar with icons for Manage Team, Customer, Files, Calendar, and Blog. Below this is a section titled "Media Website". A callout box labeled "PAGES TO MODIFY" points to a list of pages: Home, Technology, Products, Applications, Services, News, and Contacts.

The main area displays two sections: "HOME FILES" and "TECHNOLOGY FILES". Both sections have upload, download, and preview buttons. The "HOME FILES" section shows a file named "Background Header" created by "jpbcerviciotecnico@gmail.com" on "2023-08-25 16:21:49". The "TECHNOLOGY FILES" section shows a file named "First" created by "jpbcerviciotecnico@gmail.com" on "2023-08-25 16:42:30". Both sections include previous, next, and page 1 navigation buttons.



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Product name	Preview	Features	Description	Created by:	Created at:	Actions
TDM COMPACT 3	CPT_1.png compact3.jpg	Measurement technology: Phase shift projection moiré CCD camera Resolution: 12 megapixel Maximum Sample Size: 400mm x 700mm Field of view: 300mm x 375mm Depth of view: 40mm Accuracy: <1 micron or 2% of measured value, whichever is greater Heating rate: up to +6°C/s Cooling rate: Up to -3°C/s Footprint: 2600 mm x 970 mm x 1990 mm	With the scanning and multi-scale option.	jpbcserviciotecnico@gmail.com	2023-08-25 18:50:10	Edit Delete

Create Product

- Name
- Description
- File
 No file chosen
- File 1
 No file chosen
- Characteristics

Measurement technology Phase shift projection moiré
CCD camera Resolution 12 megapixel
Maximum Sample Size 400mm x 700mm
Field of view 300mm x 375mm

[Create Characteristic](#)
[Cancel](#)
[Create](#)

Edit Product

- Name
- Description
- File
 No file chosen
- File 1
 No file chosen

[Cancel](#)
[Save Changes](#)

Create Characteristic

- Name
- Description

[Cancel](#)
[Create](#)

TOP

file:///F:/Paginas_finalizadas/TDM/Documentation/index.html#bs

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APPLICATIONS FILES

Choose File No file chosen Seleccionar archivo

Search by file name

Files per Page:

Select	File name	Created by:	Created at:	Download	Preview
<input type="checkbox"/>	CONNECTORS VIDEO	jpbcserviciotecnico@gmail.com	2023-08-25 16:46:53	<input type="button" value="Download"/>	

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SERVICES FILES

Choose File No file chosen Select File

Search by file name

Files per Page:

Select	File name	Created by:	Created at:	Download	Preview
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NEWS POSTS

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<input type="checkbox"/>	TDM TECHNOLOGY SUMMED UP!	Article	Learn about our Topography Deformation Measurement Systems. Learn about our Topography Deformation Measurement Systems.	video		
<input type="checkbox"/>	CTE MEASUREMENT WITH TDM SYSTEMS	Article	Please read about TDM's ability to measure the Coefficient of Thermal Expansion (CTE).	pdf	<input type="button" value="PDF Preview"/>	



Setup Document

Documentation by **Shox Computer**

Introduction

Help And Support

Environment Setup

Deploying the Web App

Roles of Users

Handbook

The diagram illustrates a user workflow. It starts with a 'Create News' form, which then leads to a list of 'DISTRIBUTORS'. From the distributor list, a user can click 'Create Distributor' to reach a final 'Create Distributor' form.

Create News

- Title: [Input Field]
- Category: [Input Field]
- Description: [Input Field]
- Content Type: [Image dropdown]
- Content: [Choose File input, No file chosen]

Create News

DISTRIBUTORS

Select	Name	Country	Specific Address	
<input type="checkbox"/>	TDM-INSIDIX USA	UNITED STATES OF AMERICA	VIRGINIA	https://www.google.com/maps
<input checked="" type="checkbox"/>	NIPPON BARNES CO. LTD	JAPAN	3-6-4 TANIMACHI CHUO-KU OSAKA 540-0012 JAPAN	https://www.google.com/maps

Create Distributor

- Name: [Input Field]
- Country: [Input Field]
- Specific Address: [Input Field]
- Address: [Input Field]
- Contact Name: [Input Field]
- Phone Number: [Input Field]
- Email: [Input Field]

Create Distributor

If you have any questions, please use the Contact us via WhatsApp for support:

WHATSAPP SUPPORT