**Real Trust - Consultation, Design & Marketing Project**

**Overview**

"Real Trust" is a web-based application designed for a consultation, design, and marketing agency. It aims to provide users with information about the company's services, projects, and client testimonials, as well as a contact form for consultation requests. It also includes a newsletter subscription feature. This project leverages Django for backend development, HTML/CSS for front-end structure, and JavaScript (Slick Carousel) for interactive sliders.

**Tech Stack**

* **Backend**: Django (Python)
* **Frontend**: HTML, CSS, JavaScript (JQuery and Slick Carousel)
* **Database**: Django ORM with SQLite (or any configured Django database)
* **Libraries**:
  + Slick Carousel (for sliders)
  + PIL (Python Imaging Library) for image resizing

**Project Structure**

**Models**

1. **Project**: Represents each project done by the company.
   * **Fields**:
     + name - Name of the project.
     + description - Brief description of the project.
     + image - Image associated with the project.
     + created\_at - Timestamp of project creation.
   * **Methods**:
     + save() - Resizes the image to a defined ratio (450x350).
2. **Client**: Represents testimonials from clients.
   * **Fields**:
     + name - Name of the client.
     + designation - Client’s designation, e.g., CEO.
     + description - Brief testimonial from the client.
     + image - Client's profile image.
     + created\_at - Timestamp of testimonial creation.
   * **Methods**:
     + save() - Resizes the image to a defined ratio (450x350).
3. **ContactForm**: Represents the contact form submissions for free consultation requests.
   * **Fields**:
     + full\_name - Name of the contact person.
     + email - Email address.
     + mobile\_number - Phone number.
     + city - City of residence.
     + submitted\_at - Timestamp of form submission.
4. **NewsletterSubscription**: Represents the subscription list for newsletters.
   * **Fields**:
     + email - Subscriber's email.
     + subscribed\_at - Timestamp of subscription.

**Views**

1. **landing\_page**:
   * Fetches all Project and Client instances.
   * Renders the landing page with projects and clients.
   * Handles POST requests to save contact form data.
   * Passes form\_submitted status to template to show a thank-you message on successful submission.
2. **submitMail**:
   * Handles the newsletter subscription form.
   * Saves the form if valid and redirects back to the landing page.

**Templates**

* **HTML Landing Page** (landing\_page.html):
  + **Header**: Contains the logo and navigation links (Home, Services, About, Contact).
  + **Hero Section**: Displays main tagline and consultation request form.
  + **About Section**: Provides an overview of the company's approach.
  + **Why Choose Us**: Highlights the benefits and differentiators of the company in three cards.
  + **Our Projects**: Uses a slider to showcase company projects.
  + **Our Clients**: Client testimonials slider.
  + **Promo Section**: Encourages users to get in touch.
  + **Subscribe Section**: Includes a form for newsletter subscription.
  + **Footer**: Contact information, logo, and social media links.
* **CSS**: Linked as styles.css for styling across the template.

**Functionalities**

1. **Contact Form Submission**:
   * Users submit their details via the contact form for consultation.
   * Displays a thank-you message upon successful submission.
2. **Newsletter Subscription**:
   * Collects and stores emails for newsletter subscriptions.
   * Redirects back to the landing page after subscription.
3. **Dynamic Project and Client Showcase**:
   * Displays projects and client testimonials dynamically fetched from the database.
   * Slick Carousel enables project and client sliders for interactive viewing.
4. **Image Processing**:
   * Images for Project and Client models are resized automatically upon upload using PIL.

**JavaScript**

* **Slick Carousel**:
  + Used for sliding project and client cards.
  + Configuration:
    - **Project Slider**: 5 items displayed, autoplay every 2 seconds.
    - **Client Slider**: 5 items displayed, autoplay every 2 seconds with responsive breakpoints for smaller screens.

**Example Usage**

1. **Landing Page Display**: Users can explore the company’s services, past projects, and client testimonials directly on the landing page.
2. **Contact Form Submission**: Users submit the form to request a free consultation, which stores their information in the database.
3. **Newsletter Subscription**: Users can subscribe to the newsletter, which saves their email in the database.

**Step-by-Step Instructions**

**1. Clone the Repository (if applicable)**

If this project is in a Git repository, clone it to your local machine:

bash

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git clone <your-repository-url>

cd <project-directory>

**2. Set Up a Virtual Environment (Recommended)**

Creating a virtual environment helps isolate dependencies:

bash

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python3 -m venv venv

source venv/bin/activate # On macOS/Linux

venv\Scripts\activate # On Windows

**3. Install Dependencies**

Ensure you have a requirements.txt file with the following contents (or similar):

plaintext

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Django>=3.2

pillow

Install the dependencies using:

bash

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pip install -r requirements.txt

**4. Configure Database**

Run the following commands to create the initial database schema:

bash

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python manage.py makemigrations

python manage.py migrate

**5. Collect Static Files (for production)**

Collect static files into the designated static directory:

bash

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python manage.py collectstatic

**6. Run the Development Server**

Start the Django server:

bash

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python manage.py runserver

The server should be accessible at http://127.0.0.1:8000/.