Quake Guardian

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Q

Earthquake Intensity Minimizer

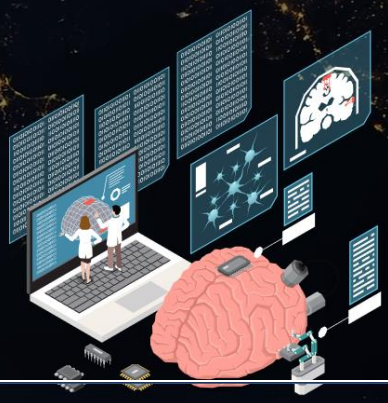
Minimize The Shake, Maximize The Safety

Get Started

What We Do?

At Quake Guardian, we're on a mission to enhance earthquake preparedness and safety. We achieve this through innovative technologies and services:

1. Earthquake Intensity Prediction
2. Minimizing Impact
3. Destruction Estimation
4. Cooperative Insurance



Learn More

Contact Us

We are available 24/7

First Name *

First Name

Last Name *

Last Name

Email *

We're here to assist you. Feel free to reach out with any questions, concerns, or feedback. Your message matters to us, and we'll get back to you

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First Name

Last Name *

Last Name

Email *

Email

Message*

Your Message

Submit

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quakeguardian.com.pk

quakeguardian13@gmail.com

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About Quake Guardian App

At Quake Guardian, our passion lies in advancing earthquake preparedness and safety. We achieve this through the following core pillars:

1. Earthquake Intensity Prediction: Utilizing cutting-edge technology to forecast earthquake intensity.

2. Minimizing Impact: Focusing on reducing the consequences of seismic events.

3. Destruction Estimation: Providing insights into potential damage assessment.

4. Cooperative Insurance: Creating collaborative insurance solutions for community protection."

How to Use ?

Using our web app is simple. Just enter earthquake data, and we'll provide you with an intensity prediction based on various factors. You

How to Use ?

Using our web app is simple. Just enter earthquake data, and we'll provide you with an intensity prediction based on various factors. You can explore solutions to minimize damage and learn about the potential destruction that could occur.

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Intensity Predictor

I | II | III | IV | V | VI | VII | VIII | IX | X

Magnitude:

4.4

Depth Range:

46

Destruction Range:

4

Victims Reaction:

5

Calculate Result

The Predicted Intensity is

The predicted earthquake intensity is: 6.

Description: VI. Felt by all; many are frightened and run outdoors. Persons walk unsteadily. Pictures fall off walls. Furniture moves or overturns. Weak plaster and masonry cracks. Small bells ring (church, school). Trees, bushes shake.

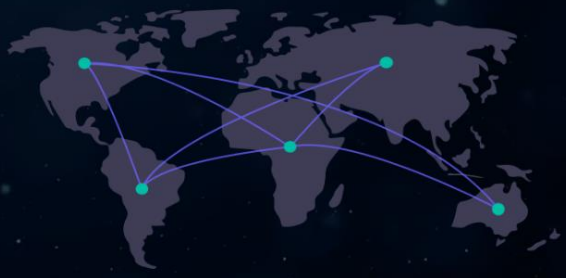
Reduced Intensity

Enter the intensity you predicted above:

All Standards

Sishen Standard

Menshin Standard

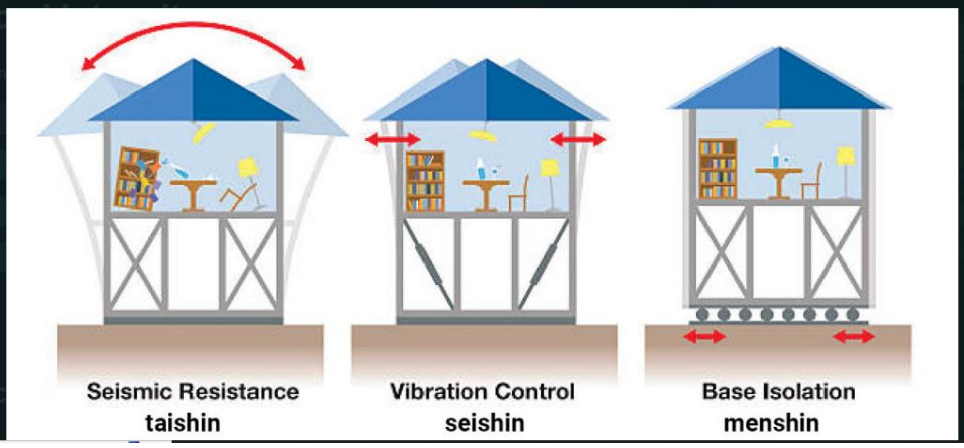


Destruction Scale (0-10)

Reduced Intensity: 3

×

We suggest you use these combined standards on tall and high budget buildings.



Reduced Intensity

Enter the intensity you predicted above:

6

All Standards

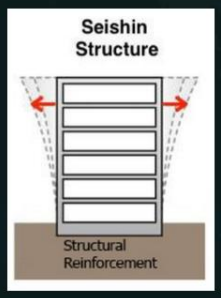
Seishin Standard

Menshin Standard

Destruction Scale (0-10)

Reduced Intensity: 4

We suggest you use this Seishen standard to reduce intensity.



Reduced Intensity

Enter the intensity you predicted above:

6

All Standards

Seishen Standard

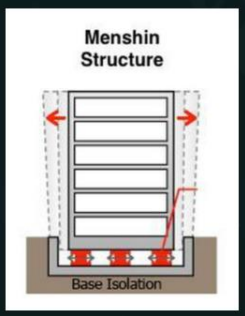
Menshin Standard

Destruction Scale (0-10)

0 = nothing

Select Building Size

Tall | Medium | Small



Reduced Intensity

Enter the intensity you predicted above:

6

All Standards

Seishen Standard

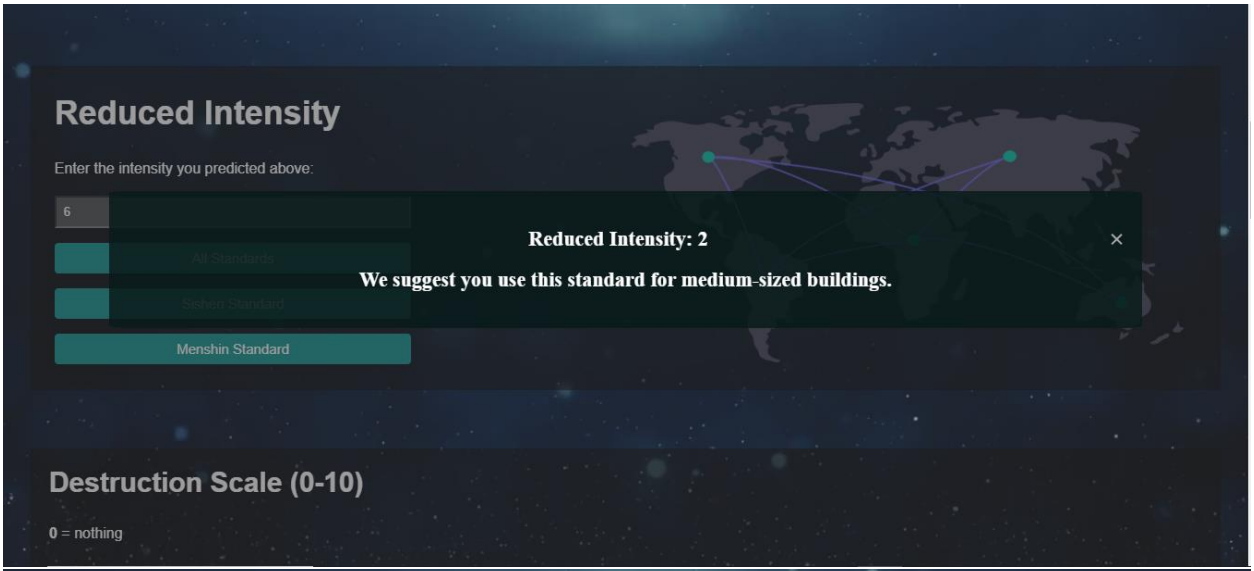
Menshin Standard

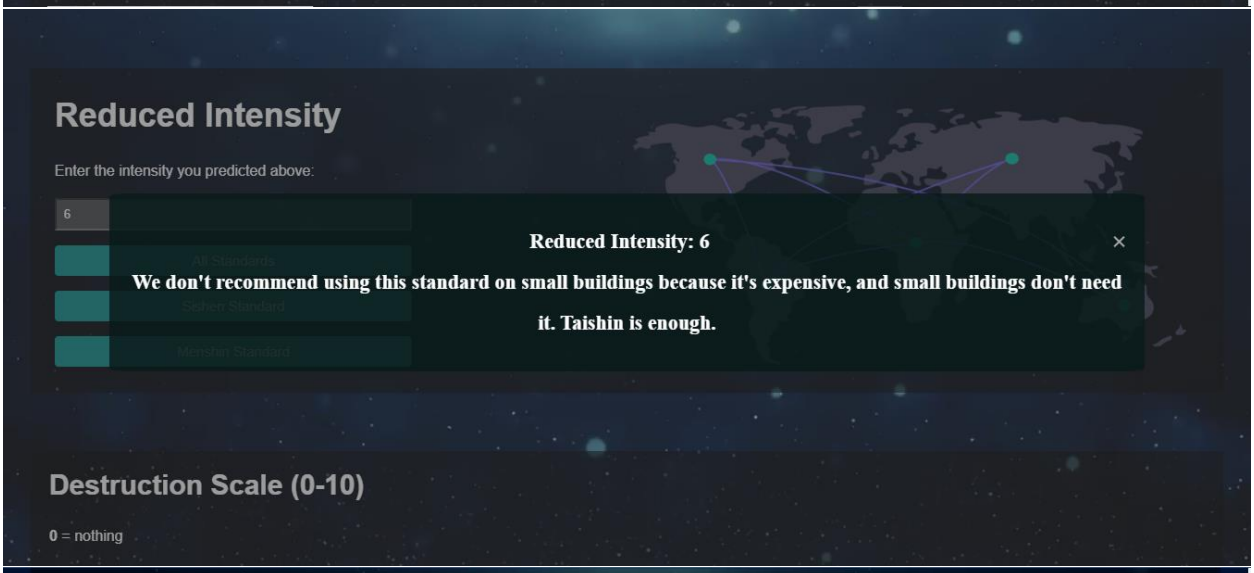
Destruction Scale (0-10)

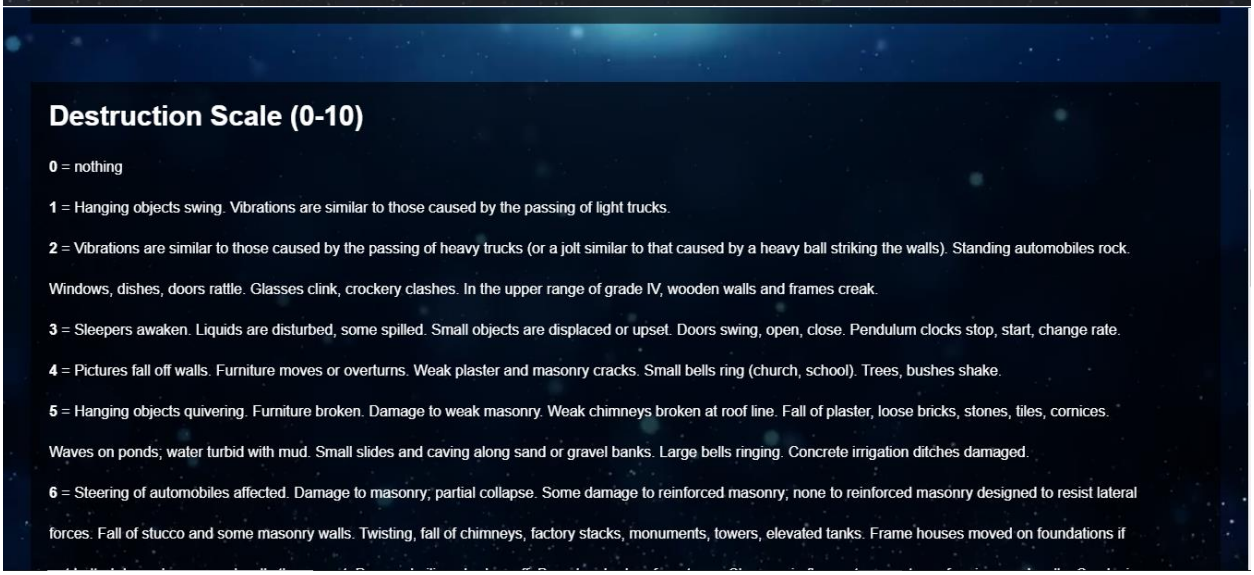
0 = nothing

Reduced Intensity: 1

We suggest you use this standard for tall buildings.


Reduced Intensity
Enter the intensity you predicted above:
6
All Standards
Taishin Standard
Menshin Standard
Reduced Intensity: 2
We suggest you use this standard for medium-sized buildings.
Destruction Scale (0-10)
0 = nothing


Reduced Intensity
Enter the intensity you predicted above:
6
All Standards
Taishin Standard
Menshin Standard
Reduced Intensity: 6
We don't recommend using this standard on small buildings because it's expensive, and small buildings don't need it. Taishin is enough.
Destruction Scale (0-10)
0 = nothing


Destruction Scale (0-10)
0 = nothing
1 = Hanging objects swing. Vibrations are similar to those caused by the passing of light trucks.
2 = Vibrations are similar to those caused by the passing of heavy trucks (or a jolt similar to that caused by a heavy ball striking the walls). Standing automobiles rock. Windows, dishes, doors rattle. Glasses clink, crockery clashes. In the upper range of grade IV, wooden walls and frames creak.
3 = Sleepers awaken. Liquids are disturbed, some spilled. Small objects are displaced or upset. Doors swing, open, close. Pendulum clocks stop, start, change rate.
4 = Pictures fall off walls. Furniture moves or overturns. Weak plaster and masonry cracks. Small bells ring (church, school). Trees, bushes shake.
5 = Hanging objects quivering. Furniture broken. Damage to weak masonry. Weak chimneys broken at roof line. Fall of plaster, loose bricks, stones, tiles, cornices. Waves on ponds; water turbid with mud. Small slides and caving along sand or gravel banks. Large bells ringing. Concrete irrigation ditches damaged.
6 = Steering of automobiles affected. Damage to masonry; partial collapse. Some damage to reinforced masonry; none to reinforced masonry designed to resist lateral forces. Fall of stucco and some masonry walls. Twisting, fall of chimneys, factory stacks, monuments, towers, elevated tanks. Frame houses moved on foundations if

5 = Hanging objects quivering. Furniture broken. Damage to weak masonry. Weak chimneys broken at roof line. Fall of plaster, loose bricks, stones, tiles, cornices. Waves on ponds; water turbid with mud. Small slides and caving along sand or gravel banks. Large bells ringing. Concrete irrigation ditches damaged.

6 = Steering of automobiles affected. Damage to masonry; partial collapse. Some damage to reinforced masonry; none to reinforced masonry designed to resist lateral forces. Fall of stucco and some masonry walls. Twisting, fall of chimneys, factory stacks, monuments, towers, elevated tanks. Frame houses moved on foundations if not bolted down; loose panel walls thrown out. Decayed pilings broken off. Branches broken from trees. Changes in flow or temperature of springs and wells. Cracks in wet ground and on steep slopes.

7 = Weak masonry destroyed; ordinary masonry heavily damaged, sometimes with complete collapse; reinforced masonry seriously damaged. Serious damage to reservoirs. Underground pipes broken. Conspicuous cracks in ground. In alluvial areas, sand and mud ejected; earthquake fountains, sand craters.

8 = Most masonry and frame structures destroyed with their foundations. Some well-built wooden structures and bridges destroyed. Serious damage to dams, dikes, embankments. Large landslides. Water thrown on banks of canals, rivers, lakes, and so on. Sand and mud shifted horizontally on beaches and flat land. Railway rails bent slightly.

9 = Rails bent greatly. Underground pipelines completely out of service.

10 = Damage nearly total. Large rock masses displaced. Lines of sight and level distorted. Objects thrown into air.

Victim's Reaction (0-11)

0 = not felt
1 = felt by person at rest
2 = felt indoors
3 = vibrations felt
4 = felt outdoors
5 = felt by all
6 = feeling difficult to stand
7 = feeling fear and instability
8 = Feeling panic
9 = everywhere chaos of people
10 = Shocked, frustration, fear and grief
11 = people depressed and losing lives

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Magnitude After Solution Application

Water Injection or Human induced seismicity

The interaction between water injection and earthquake magnitude has garnered scientific interest. The Richter scale provides insight into this relationship, indicating that while the impact of water injection is negligible at higher magnitudes, subtle changes in pressure could theoretically affect earthquakes in the 5.0 to 6.0 range.

Moreover, human activities altering underground water levels can redistribute stress in the Earth's crust, potentially influencing the buildup of strain along fault lines and altering seismic risk. Understanding this interplay is vital for managing seismic hazards effectively.

Human activity can also be beneficial for us as it generates smaller earthquakes of maximum 4 to 5 magnitudes, which are not that much harmful for us but it prevents the higher build-up of stress in the crust, preventing larger earthquakes causing destruction to our environment.

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Enter Magnitude:

6

View Reduced Magnitude

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Enter Magnitude:

6

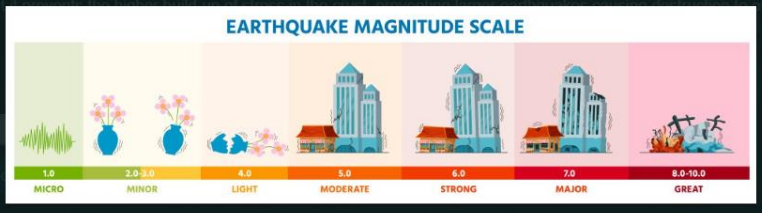
Reduced Magnitude:

5.8

Solutions:

- **Reduced Magnitude description**

Here, the pressure change from water injection could lead to a possible decrease of 0.2 to 0.3 on the Richter scale.

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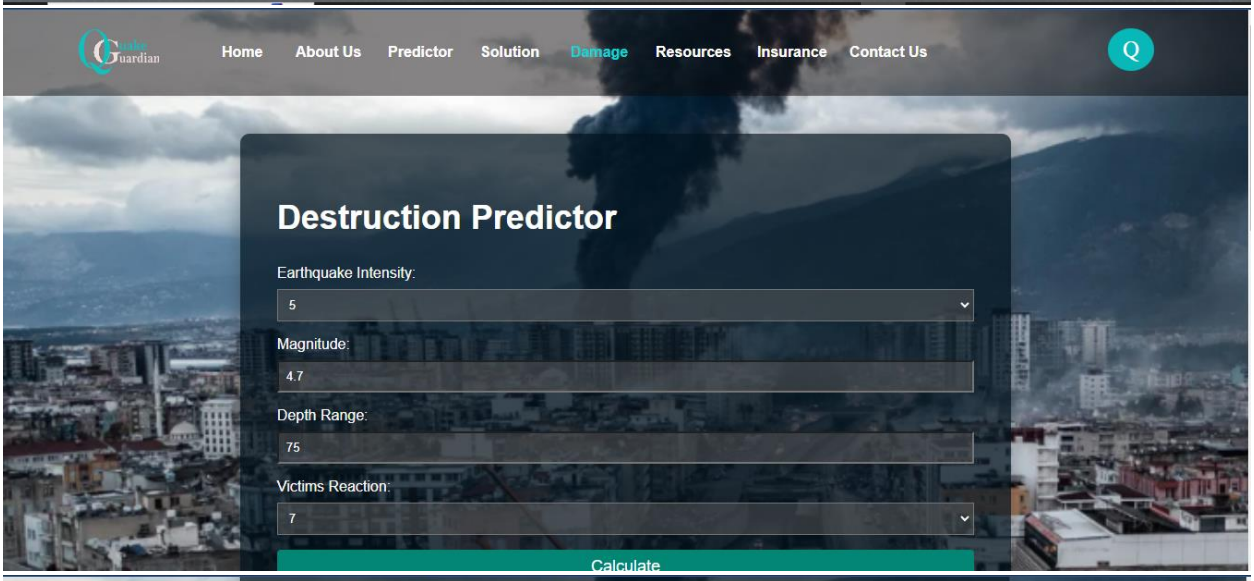
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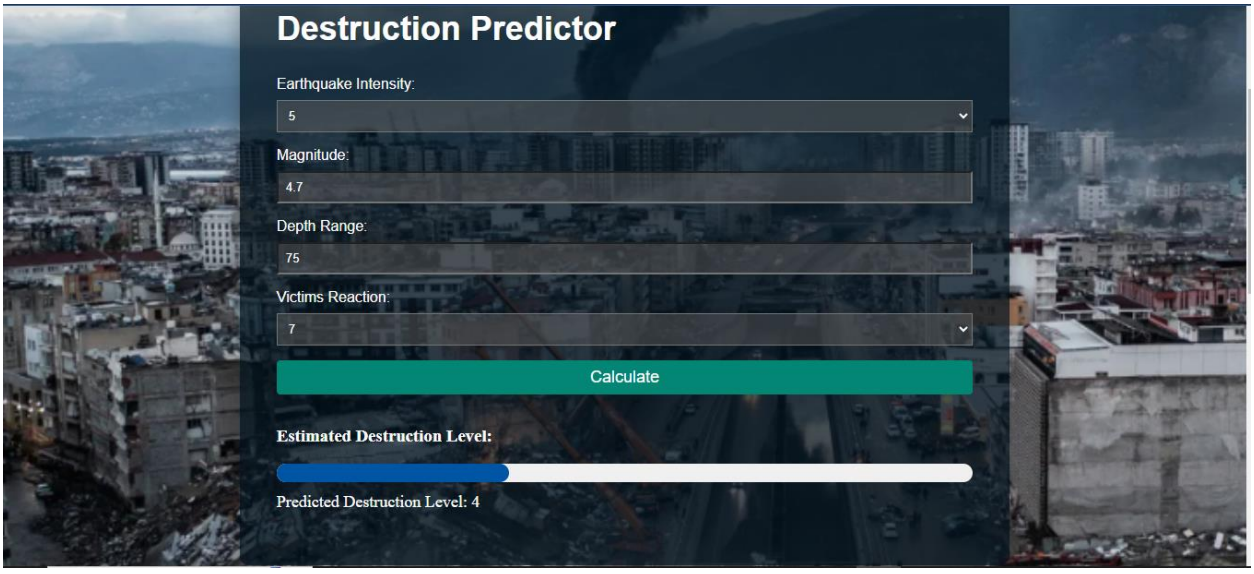
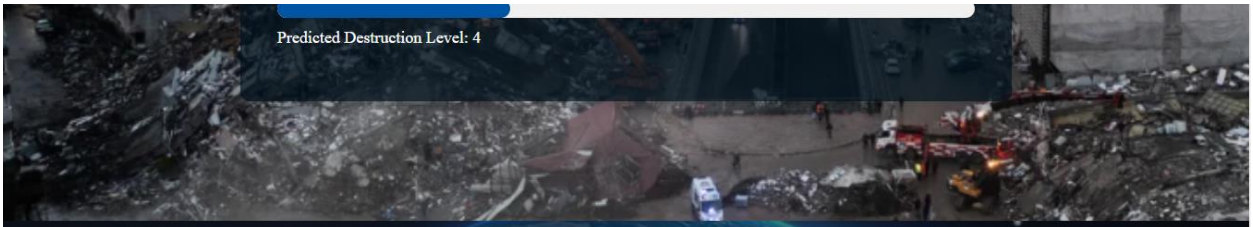
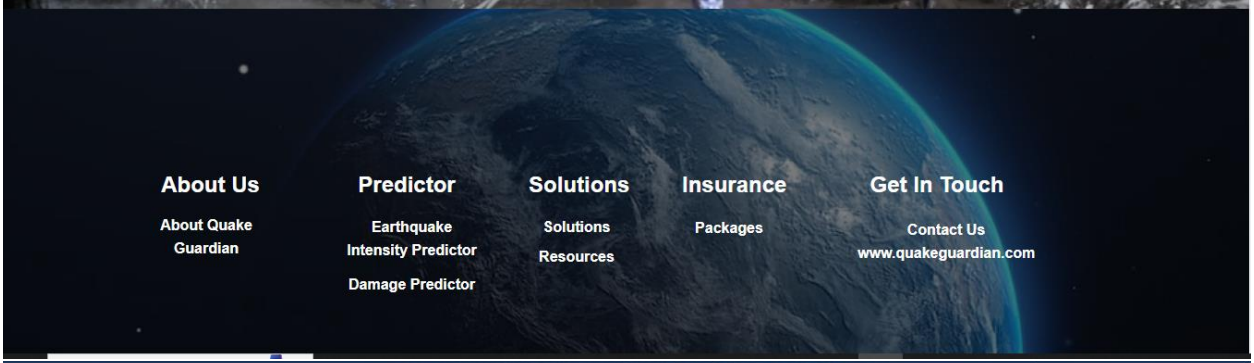
Destruction Predictor
Earthquake Intensity:
5
Magnitude:
4.7
Depth Range:
75
Victims Reaction:
7
Calculate


Destruction Predictor
Earthquake Intensity:
5
Magnitude:
4.7
Depth Range:
75
Victims Reaction:
7
Calculate
Estimated Destruction Level:
Predicted Destruction Level: 4


Predicted Destruction Level: 4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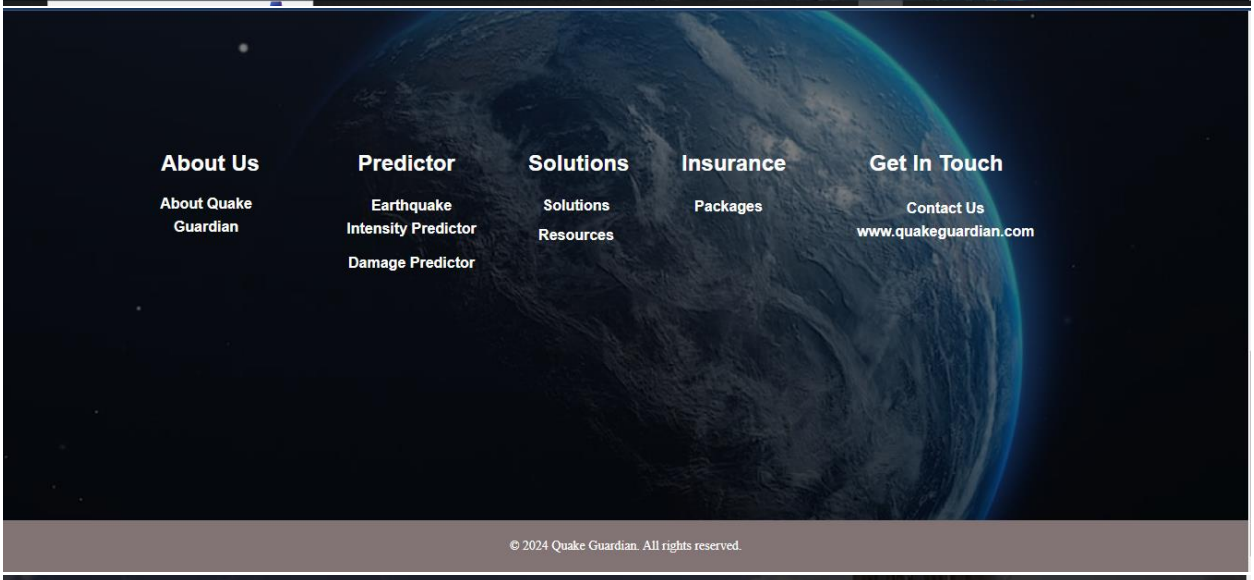
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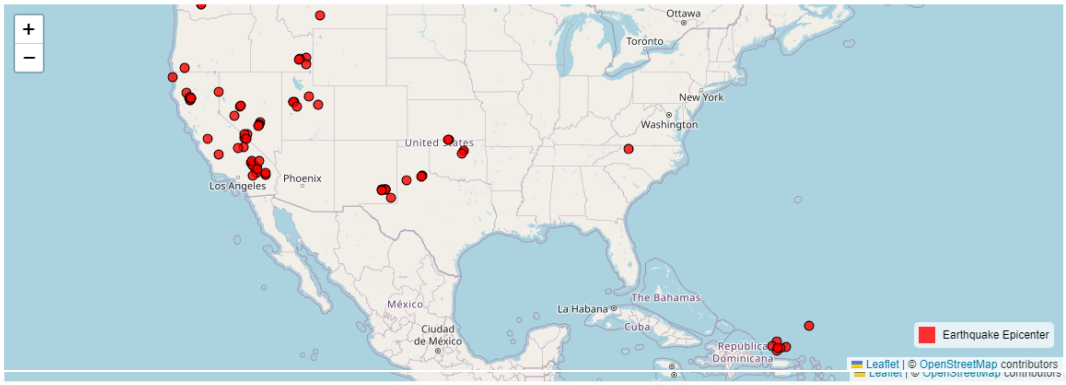
Explore the World of Earthquakes
Discover the science, causes, and effects of earthquakes
Learn More

Get To Know About Earthquakes

Earthquakes are caused by the sudden release of energy stored in the Earth's crust. This energy is typically released along faults, which are fractures in the Earth's surface where movement occurs.



When stress builds up along a fault and exceeds the strength of the rocks, it causes them to break and move. This movement generates seismic waves, which propagate through the Earth and cause the ground to shake.

The severity of an earthquake is measured using the Richter scale or the moment magnitude scale. These scales quantify the amount of energy released by an earthquake and provide a numerical value known as the earthquake's magnitude.

Earthquakes can have devastating effects, including ground shaking, surface rupture, landslides, tsunamis, and secondary hazards such as fires and liquefaction.

Understanding the basics of earthquakes is crucial for preparedness and mitigation efforts to minimize their impact on communities and infrastructure.

Earthquake Faults

The three main types of faults are normal faults, reverse faults, and strike-slip faults.

Normal Fault

Earthquake Faults

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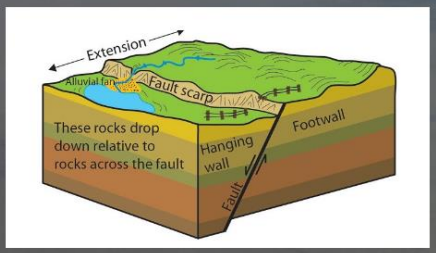
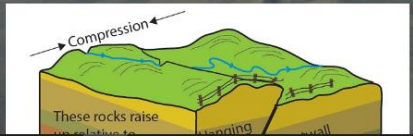


Normal Fault

A normal fault occurs when two blocks of rock are pulled apart by tensional forces. The block above the fault moves downward relative to the block below the fault. Normal faults are common in areas where the crust is being extended.

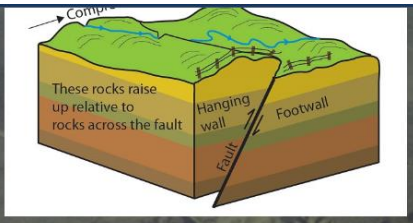
Reverse Fault

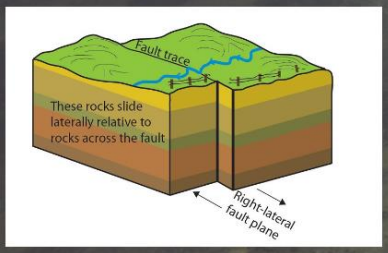
A reverse fault occurs when two blocks of rock are forced together by compressional forces. The block above the fault moves upward relative to the block below the fault. Reverse faults



Reverse Fault

A reverse fault occurs when two blocks of rock are forced together by compressional forces. The block above the fault moves upward relative to the block below the fault. Reverse faults are common in areas where the crust is being compressed.





Strike-Slip Fault

A strike-slip fault occurs when two blocks of rock slide horizontally past each other due to shear forces. The movement along strike-slip faults is predominantly horizontal. The San Andreas Fault in California is a famous example of a strike-slip fault.

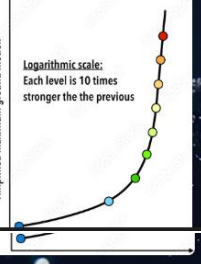
Understanding Earthquake Magnitude and Intensity

Earthquake Magnitude

Magnitude measures the energy released at the source of the earthquake. It is typically expressed on logarithmic scales such as the Richter scale or the moment magnitude scale.

Richter scale

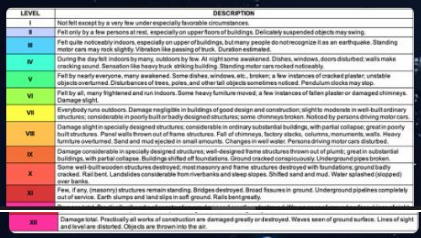
Level	Description	Occurrence
>9.0	Great	1 per 10 years
8.0-8.9	Great	1 per year
7.0-7.9	Major	10 per year
6.0-6.9	Strong	100 per year
5.0-5.9	Moderate	1,000 per year
4.0-4.9	Light	10,000 per year
3.0-3.9	Minor	100,000 per year
2.0-2.9	Minor	One million per year
1.0-1.9	Minor	Millions per year



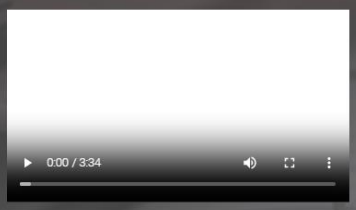
Earthquake Intensity

Earthquake intensity refers to the severity of ground shaking and the impact of an earthquake on structures, infrastructure, and the environment. The Mercalli intensity scale assesses the intensity of an earthquake's effects on the Earth's surface and human-made structures. It is based on observed damage and human perception.

Mercalli Intensity Scale

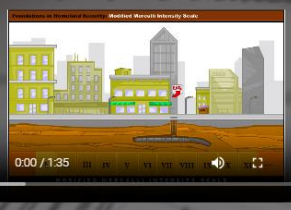


Measuring Earthquake Magnitude



Learn how to determine an earthquake's Richter magnitude.

Understanding Mercalli Intensity Scale



Explore the Mercalli intensity scale and how it measures the effects of earthquakes on people, buildings, and the environment.

Impact of An Earthquake

Discover the factors that determine the impact of an earthquake.

Earthquake Safety Tips

Prepare an Emergency Kit

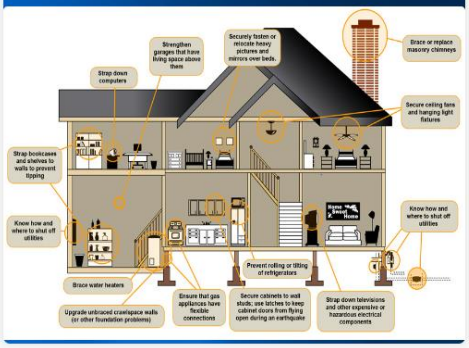
It's essential to have an emergency kit ready in case of earthquakes or other disasters. Include water, non-perishable food, a flashlight, a first aid kit, and any necessary medications.Additionally, consider including important documents, such as identification emergency contact information, in your emergency kit.

Drop, Cover, and Hold On

When an earthquake occurs, remember to drop to the ground, take cover under a sturdy piece of furniture or against an interior wall, and hold on until the shaking stops. This protects you from falling objects and reduces the risk of injury. After the shaking stops, be cautious of potential aftershocks.

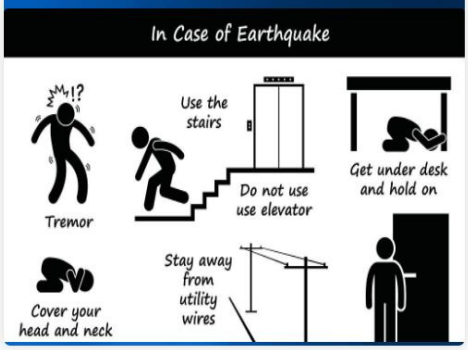
Secure Heavy Furniture

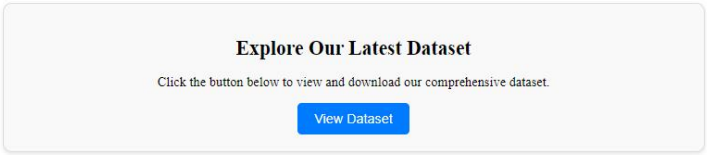
Secure heavy furniture, such as bookcases and appliances, to the wall using brackets or straps. This prevents them from tipping over during an earthquake and causing injuries or damage.

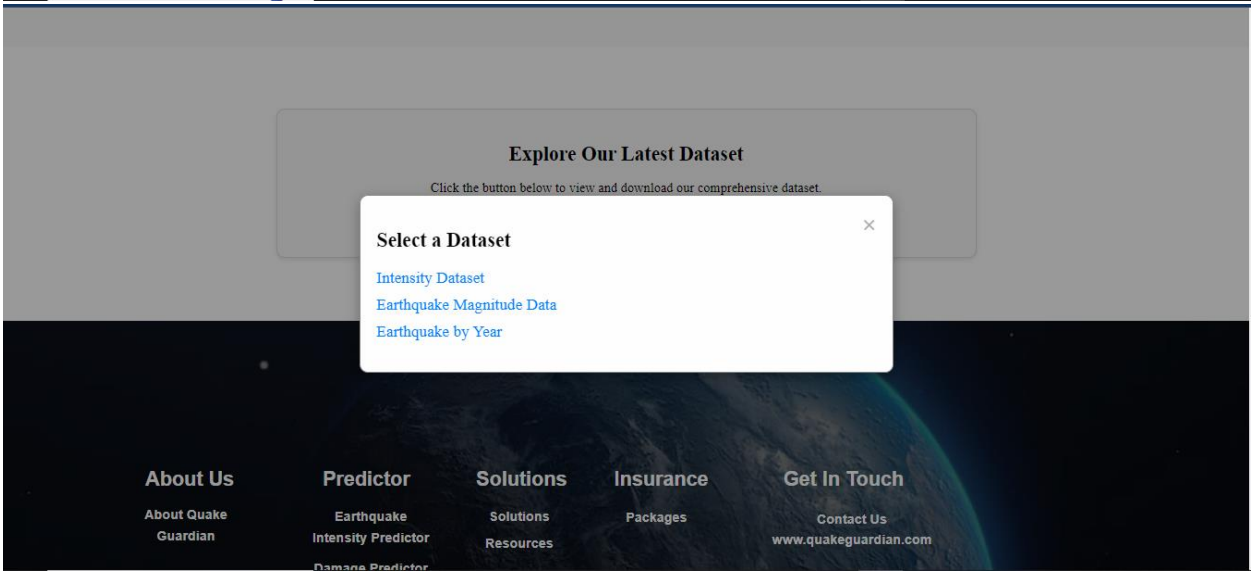


Develop an Emergency Exit Plan

Plan and practice evacuation routes from your home or workplace to safe locations. Ensure all family members or coworkers know the plan and have a designated meeting point.







Earthquake Intensity Dataset

Click below to download the dataset:

Download intensity.csv

Show 10 entries Search:

Magnitude	Depth	destruction	Victim's reaction	Intensity
4.7	10	4	5	6
4.7	33	5	6	7
5	10	2	3	4
5	9	3	4	5
5.1	33	5	6	7
5.2	21	6	7	8
5.2	9	7	8	9
5.3	33	5	6	7
5.4	53	3	4	5
5.5	5	5	6	7

Showing 1 to 10 of 1,016 entries Previous 1 2 3 4 5 … 102 Next

Earthquake Magnitude Data

Click below to download the dataset:

Download Earthquake Magnitude Data.csv

Show 10 entries Search:

date	time	latitude	longitude	depth	magnitude
1/1/2018	0:52:32	-0.33	123.73076	112.4	5.11
1/1/2018	2:47:53	-1.4	120.46886	10	2.35
1/1/2018	3:03:26	-9.42	117.89539	24.1	2.39
1/1/2018	3:07:09	1.42	122.04464	17.2	1.9
1/1/2018	3:24:53	-6.11	130.33604	156.9	4.27
1/1/2018	3:32:13	-3.24	128.83664	10	3.49
1/1/2018	4:30:53	-0.24	123.07458	63.2	2.3
1/1/2018	4:59:02	2.31	97.06472	59.3	2.9
1/1/2018	5:22:39	0.19	121.95494	154.6	2.45
1/1/2018	6:22:42	-6.46	101.69926	10	4.87

Showing 1 to 10 of 10,000 entries Previous 1 2 3 4 5 … 1,000 Next

Deadliest Earthquakes by Year

Click below to download the dataset:

Download Deadliest Earthquakes by Year.csv

Search:

	Year	Magnitude	Location	Depth (km)
	undefined	undefined	undefined	undefined
0	1939	7.8	Turkey, Erzincan Province	20
1	1940	7.7	Romania, Vrancea County	133
2	1941	5.8	Yemen, Razih District	35
3	1942	7	Turkey, Erbaa	10
4	1943	7.5-7.7	Turkey, Ã‡ankÃ±rÃ±	20
5	1944	7	Argentina, San Juan	15
6	1945	8.1	British India, Makran Coast	15
7	1946	7.8	Dominican Republic, Samana	15
8	1948	7.3	Soviet Union, Turkmen Soviet Socialist Republic	15

Showing 1 to 10 of 85 entries Previous 1 2 3 4 5 … 9 Next

Quake Guardian

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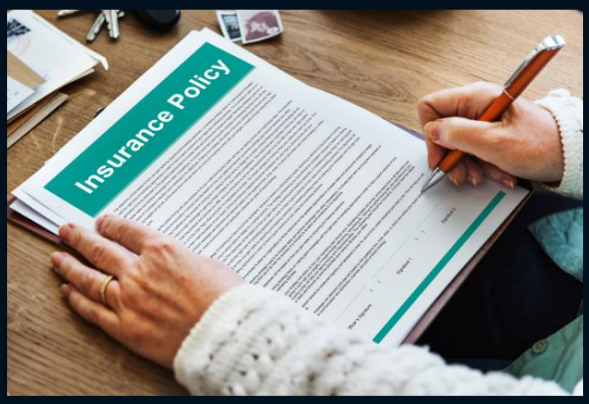
Earthquake Insurance in Pakistan

Insurance companies offer a variety of insurance policies that cover earthquake damage. These policies are designed to provide financial protection to members across the world related to any earthquake damage. Insurance companies assess the seismic risk of an area and tailor their policies accordingly.

1. Tailored Coverage
2. Financial Support
3. Global Coverage

View



Insurance Types

Earthquake | Property | Life | Shop

Earthquake Insurance Companies

Askari Insurance

Askari Fire Insurance

by Askari Insurance Company

Fire & Property Takaful Insurance

by Pak Qatar General Takaful Limited

Property Insurance Companies

TPLInsurance

TPL Property Insurance

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TPL Property Insurance

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Life Insurance Companies

Home Insurance Companies

Home Takaful

by pak qatar general takaful limited

Home Insurance

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Home Insurance Companies

Home Takaful

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Home Insurance

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Home Insurance by Adamjee Insurance companyHome insurance, also referred to as homeowner's insurance or property insurance, is a category of insurance that provides financial security for your house and its belongings. It is meant to aid in your recovery from unexpected events or possible property damage.
Want to know more about it? click here: https://www.adamjeeinsurance.com/home-insurance

Home Insurance

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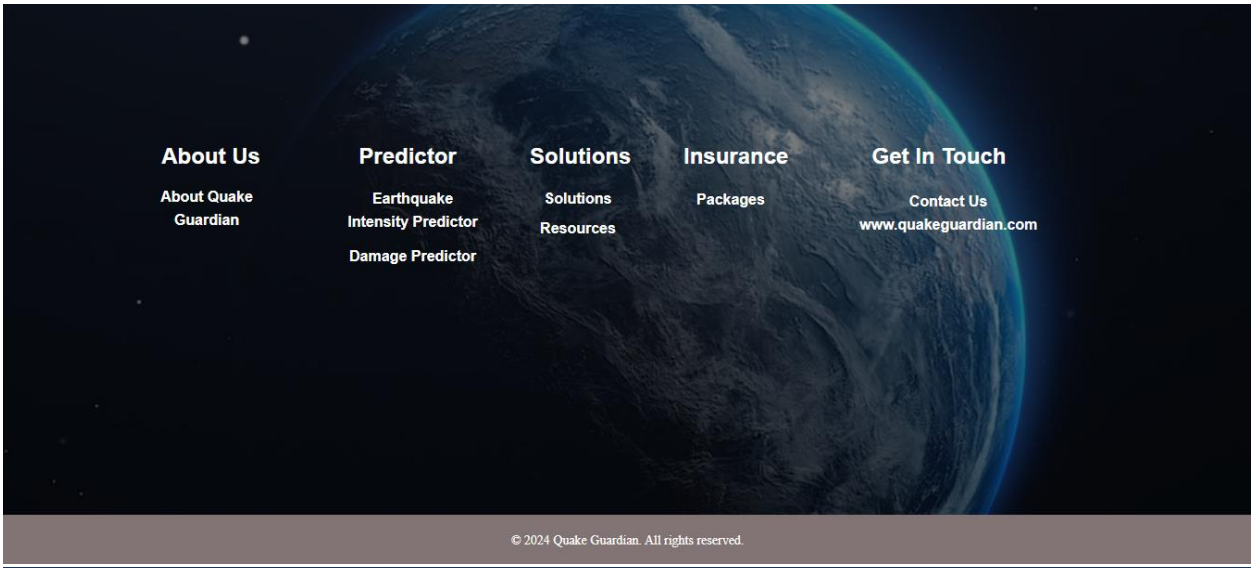

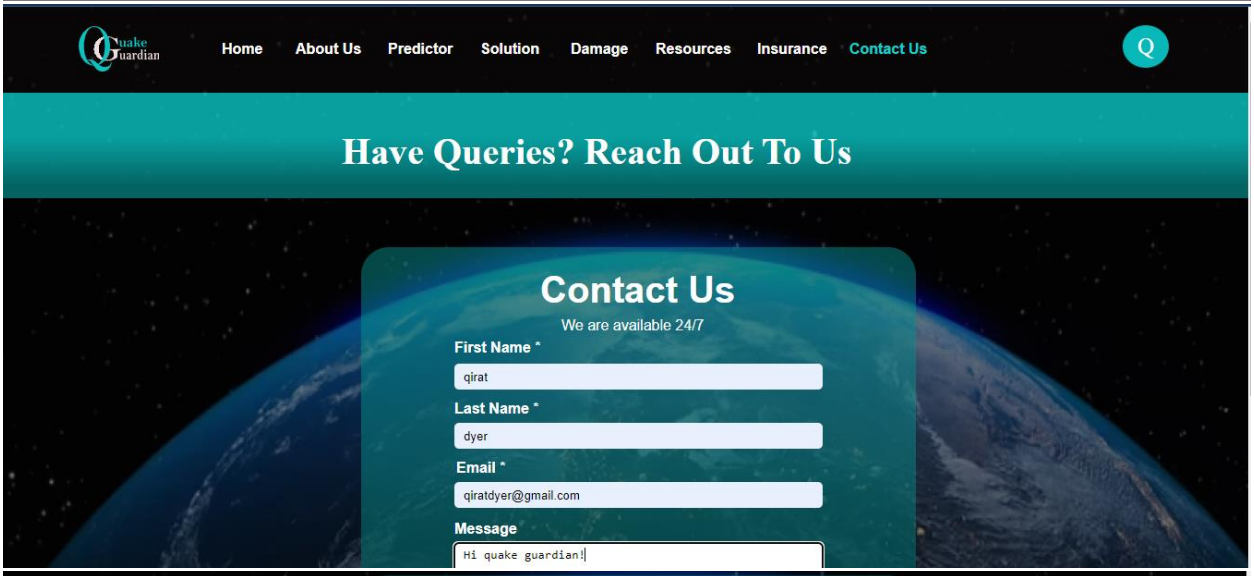

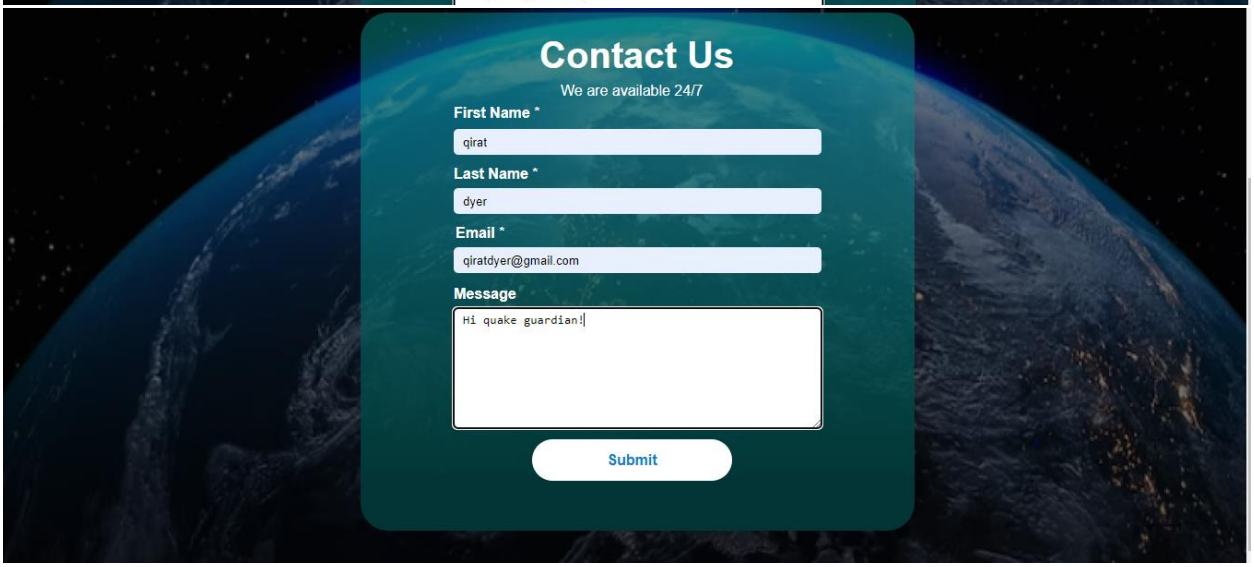

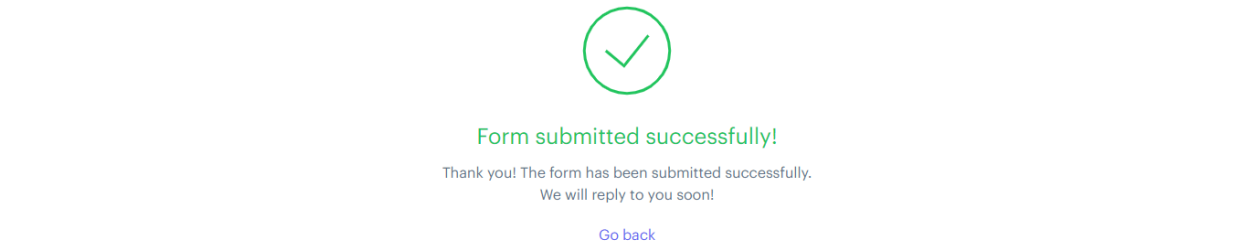
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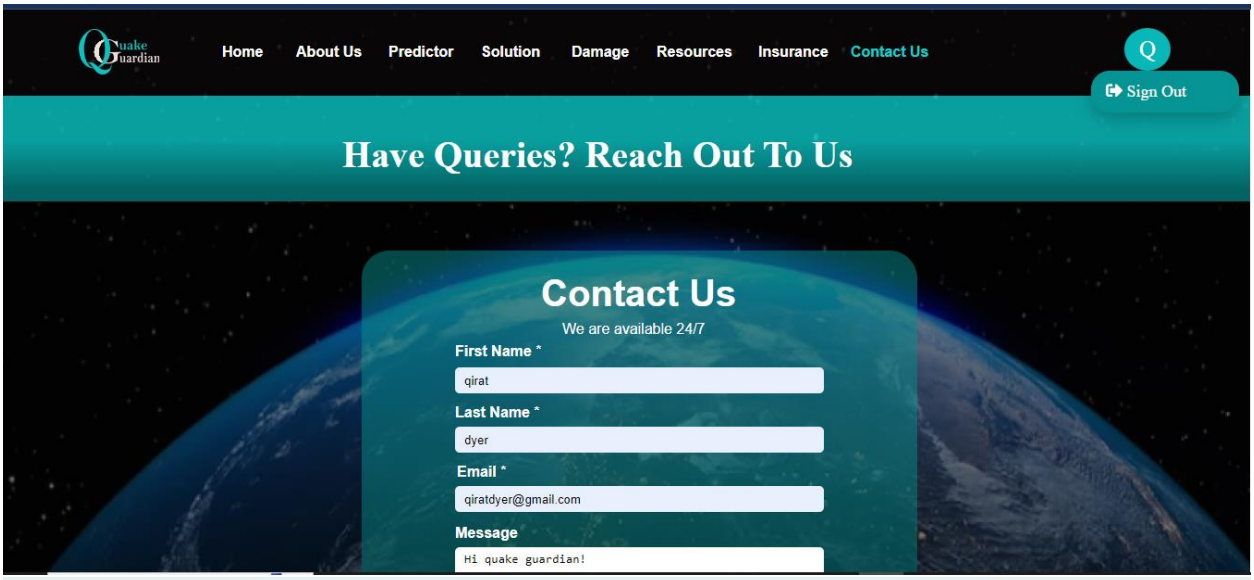
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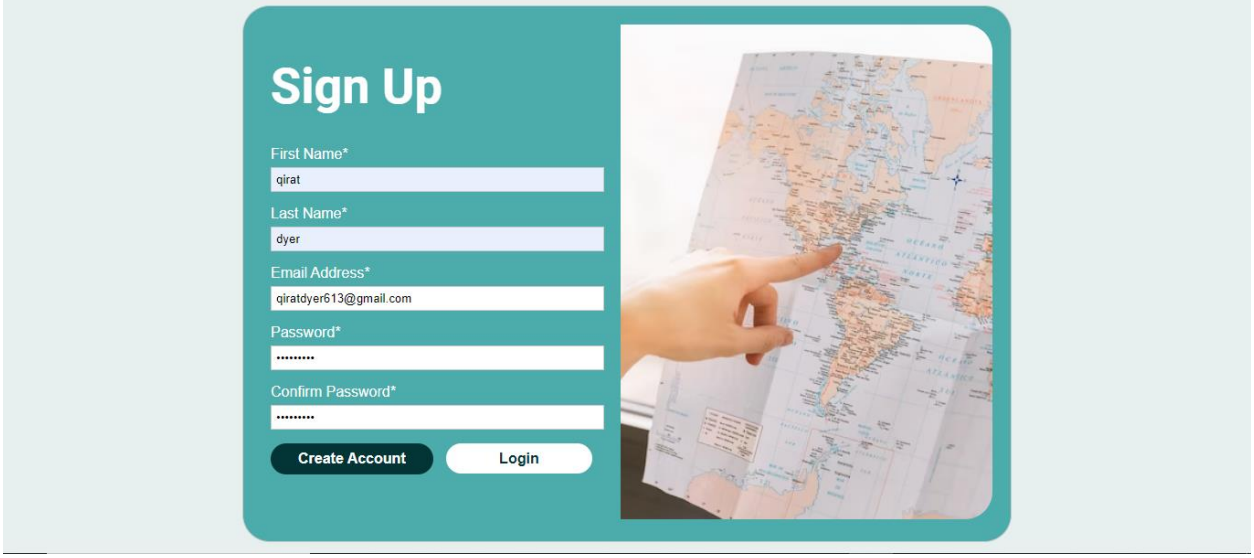
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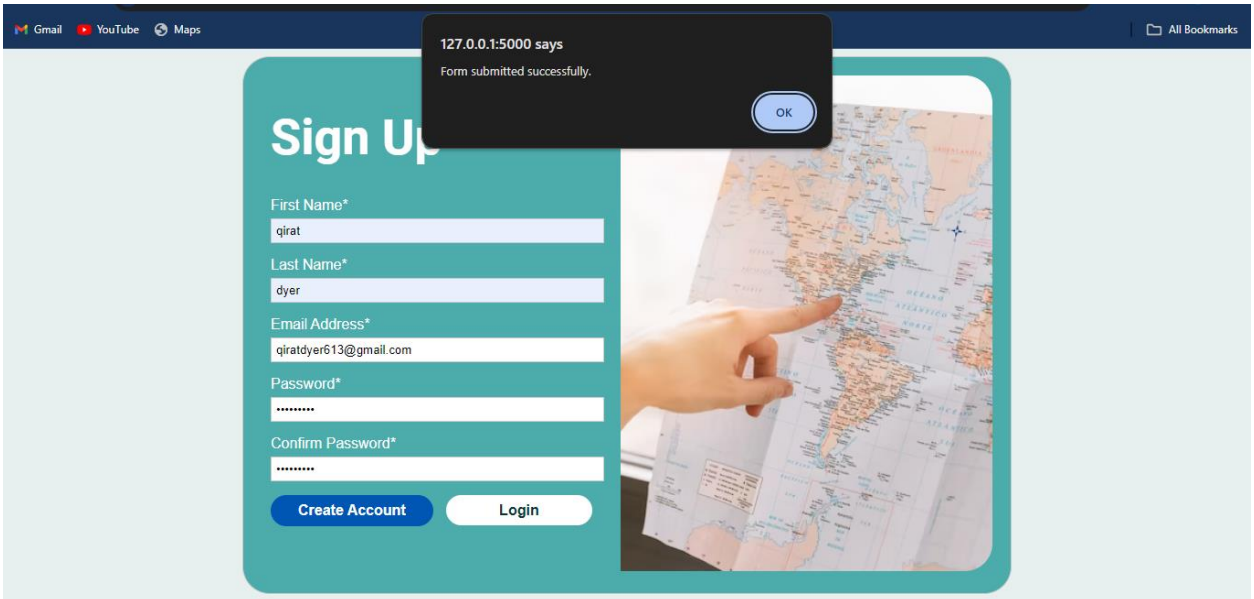
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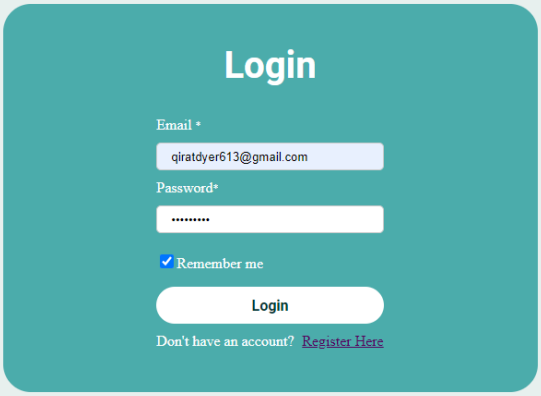
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