GuideForm
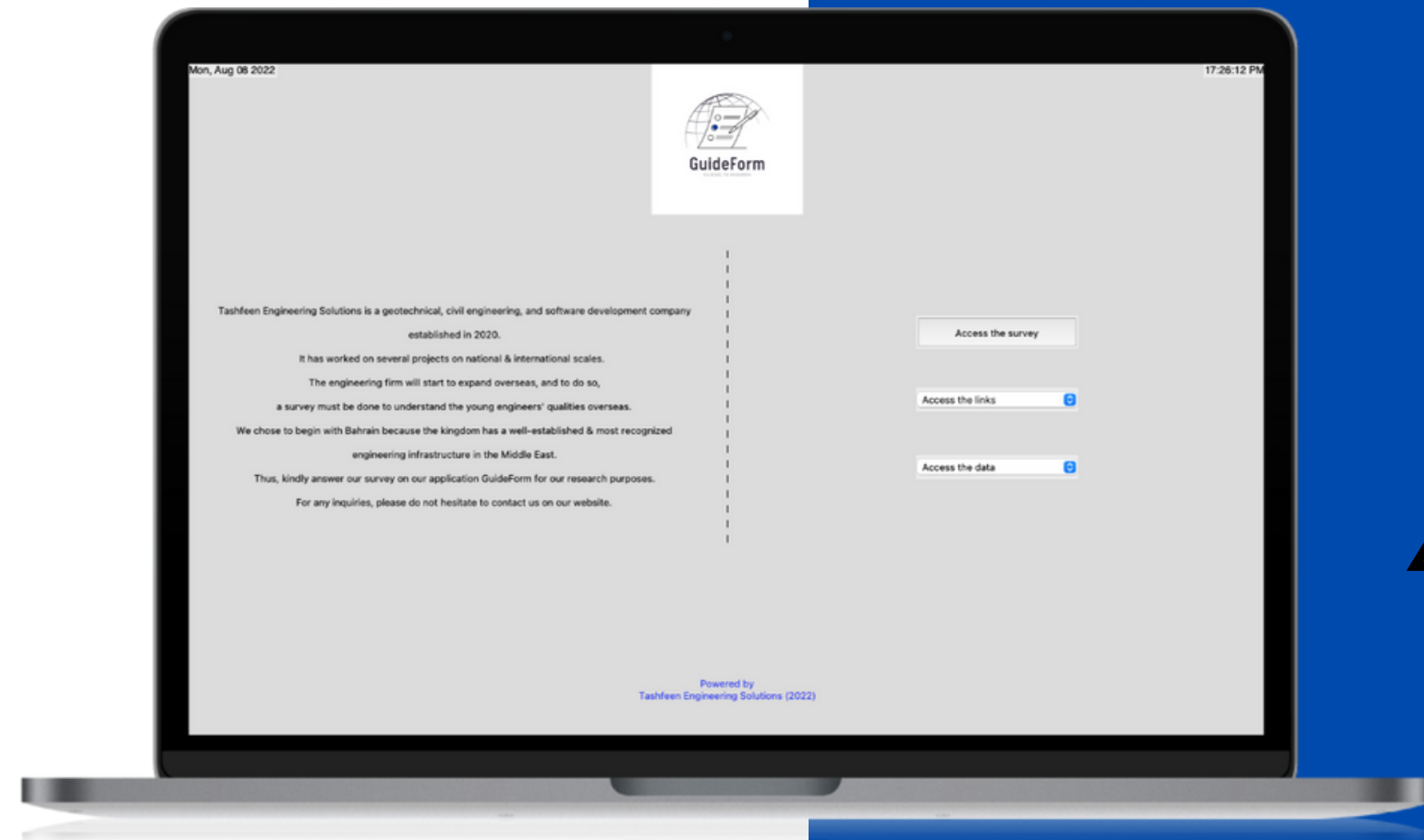
GUIDING TO RESEARCH

ABOUT GUIDEFORM

GuideForm is a software for surveying senior engineering college students in Bahrain for the purpose of expanding Tashfeen Engineering Solutions in the Middle East.

The interface also allows the user to not only access the survey, but also information about the company & software online, and graphs of the collected data from the survey.

www.tashfeen.tech

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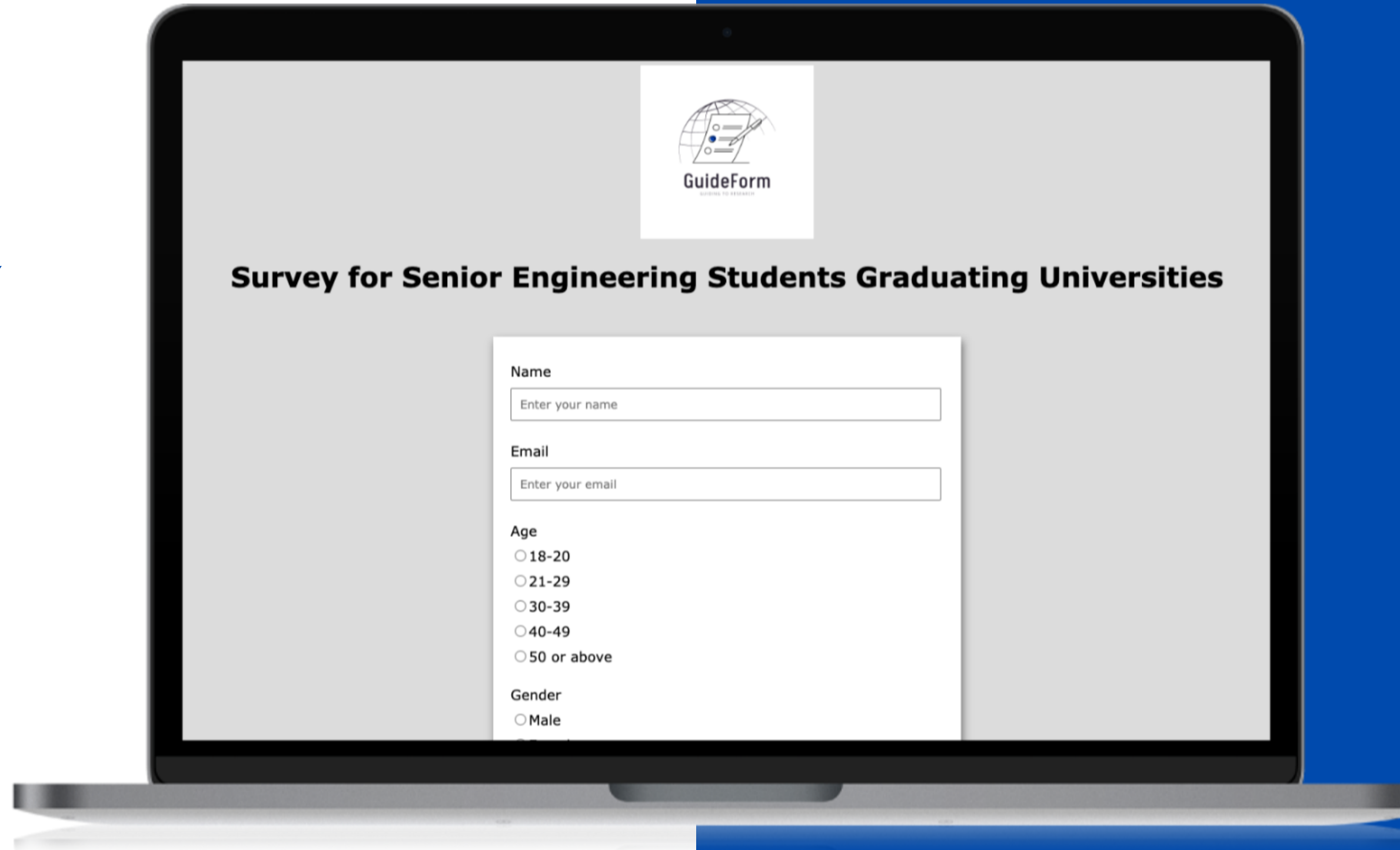
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THE SURVEY

When the student accesses the interface, they must first fill out the form by clicking on "Access the survey".

Once they see the survey, they are obliged to fill out the entire form as per the displayed instructions.

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TELEGRAM CHANNEL

Once the user submits the form, it will then be processed through a PHP code. Once that is done, a Telegram bot will send the user's answers to a Telegram channel, and the user will then see a confirmation message on the screen, and a button that will redirect them to the main menu.

EXTRACT DATA

Then, a Python code is used to extract all the necessary data from the Telegram channel (users & messages) into JSON files that will be converted into TXT files. A snippet of the Python code is presented in this slide.

The code for the Telegram function:

```python
# Create function to extract data from Telegram channel
def telegram():
    # some functions to parse json date
    class DateTimeEncoder(json.JSONEncoder):
        def default(self, o):
            if isinstance(o, datetime):
                return o.isoformat()

            if isinstance(o, bytes):
                return list(o)

            return json.JSONEncoder.default(self, o)

    # Reading Configs
    config = configparser.ConfigParser()
    config.read("/Users/emansarahafi/Downloads/Telegram Files for Project/config.ini")

    # Setting configuration values
    api_id = config['Telegram']['api_id']
    api_hash = config['Telegram']['api_hash']

    api_hash = str(api_hash)

    phone = config['Telegram']['phone']
    username = config['Telegram']['username']

    # Create the client and connect
    client = TelegramClient(username, api_id, api_hash)

    async def main(phone):
        await client.start()
        print("Client Created")
        me = await client.get_me()

        my_channel = await client.get_entity('Survey2022Channel')
        messages = await client.get_messages('Survey2022Channel')
        message = messages[0]
        textmsg = print(message.raw_text)  # raw_text for no formatting

    # For Users
        offset = 0
        limit = 100
        all_participants = []

        while True:
            participants = await client(GetParticipantsRequest(
                my_channel, ChannelParticipantsSearch(''), offset, limit,
```
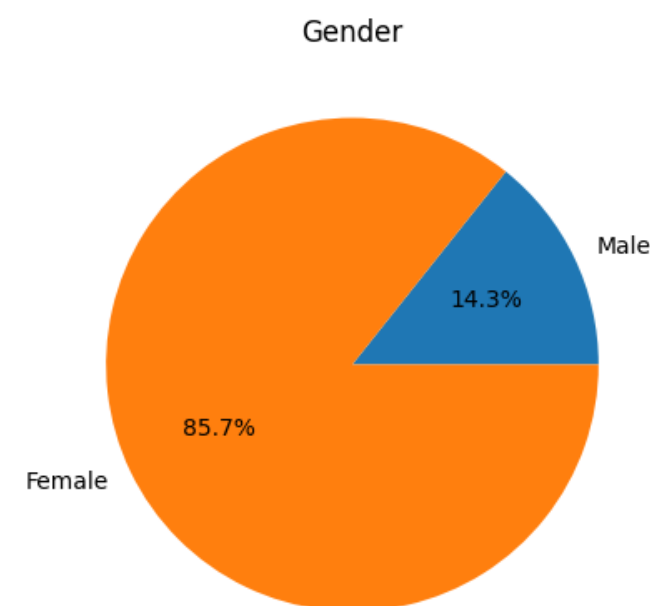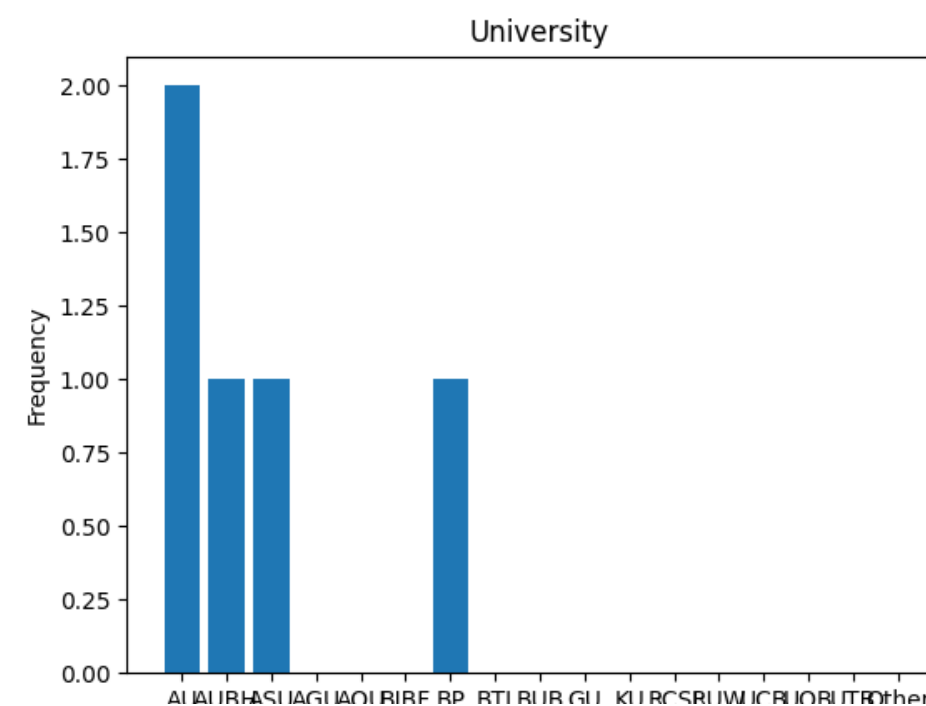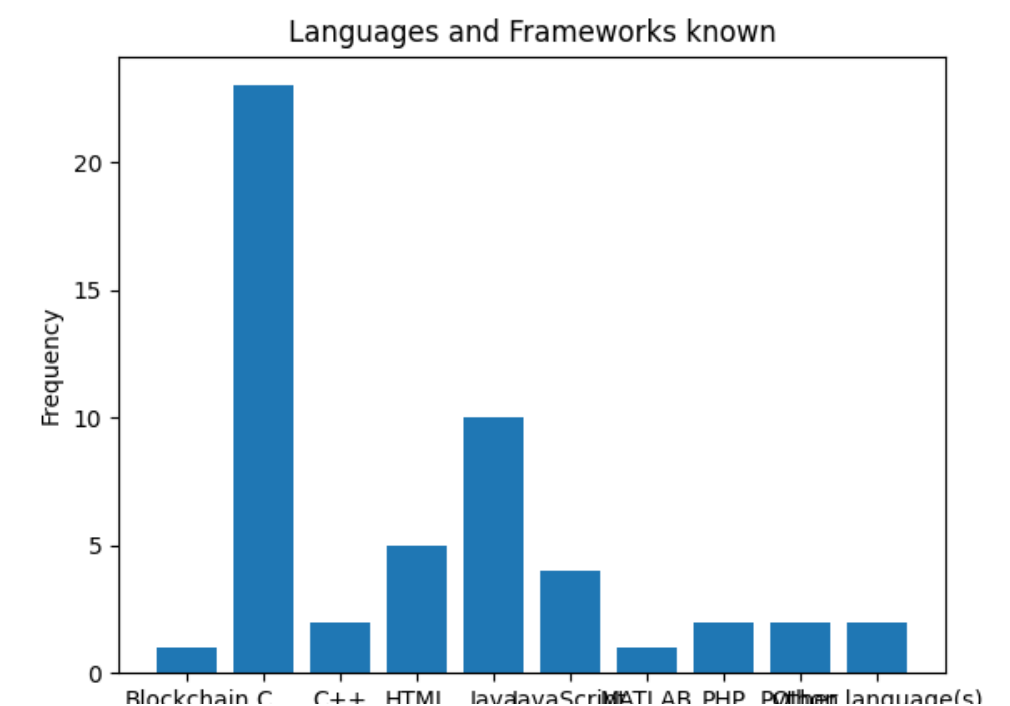
VIEW DATA

Then, a Python code will generate graphs from the Telegram channel that represents the collected survey responses. That is done by getting the word count of the keywords and then graphing it into bar charts or pie charts, depending on the questions & their responses. A few examples of the graphs are presented below.

Gender

University

Languages and Frameworks known

ACCESS INFORMATION

The interface also offers options to access the interface's website, brochure & the company's website as well.

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GuideForm
GUIDING TO RESEARCH

Tashfeen Engineering Solutions is a geotechnical, civil engineering, and software development company

established in 2020.

It has worked on several projects on national & international scales.

The engineering firm will start to expand overseas, and to do so,

a survey must be done to understand the young engineers' qualities overseas.

We chose to begin with Bahrain because the kingdom has a well-established & most recognized

engineering infrastructure in the Middle East.

Thus, kindly answer our survey on our application GuideForm for our research purposes.

For any inquiries, please do not hesitate to contact us on our website.
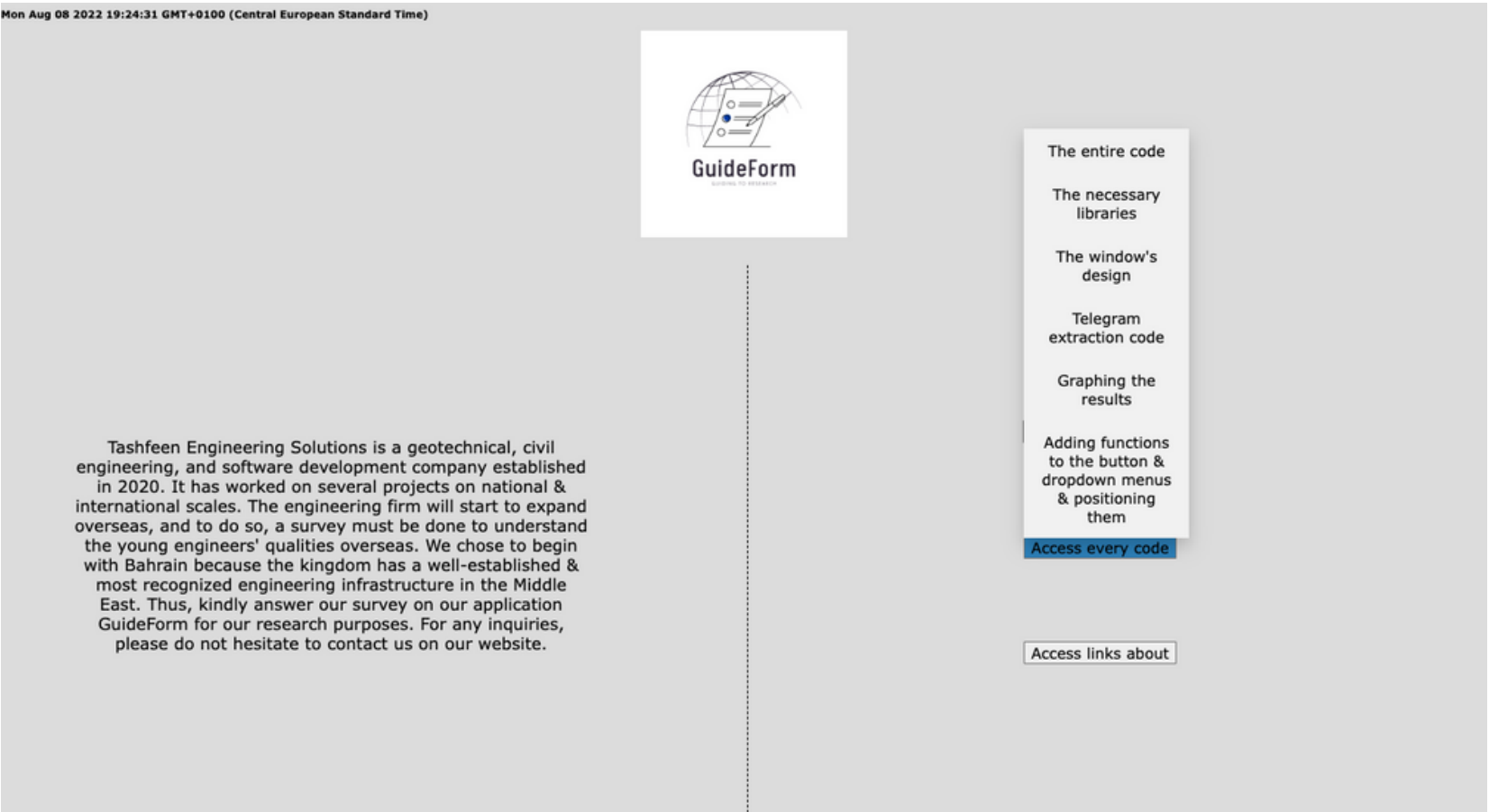
Access the survey

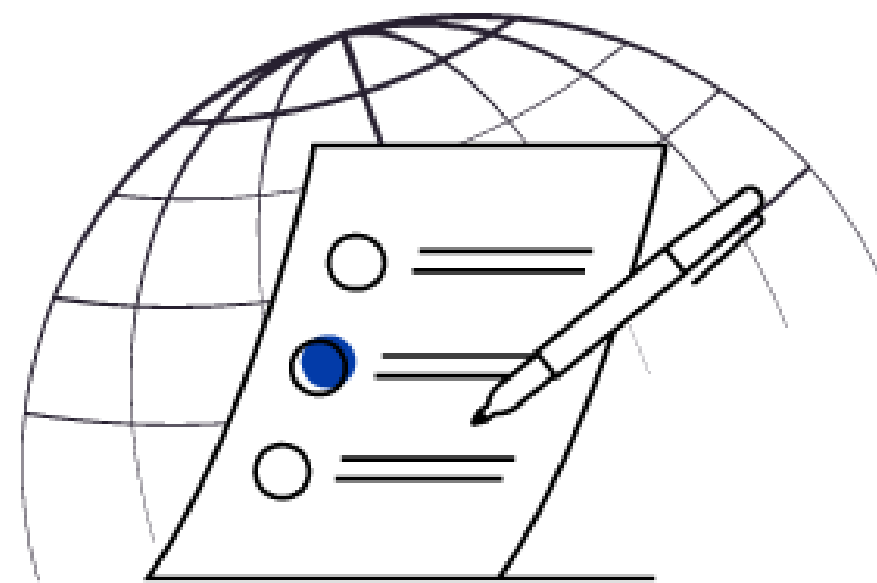Access the links

The application
The brochure
The company

Access the data

THE WEBSITE

The website has similar features to the application, but instead of showing the data, it shows the detailed Python code for GuideForm.

GuideForm

GUIDING TO RESEARCH