

GuideForm

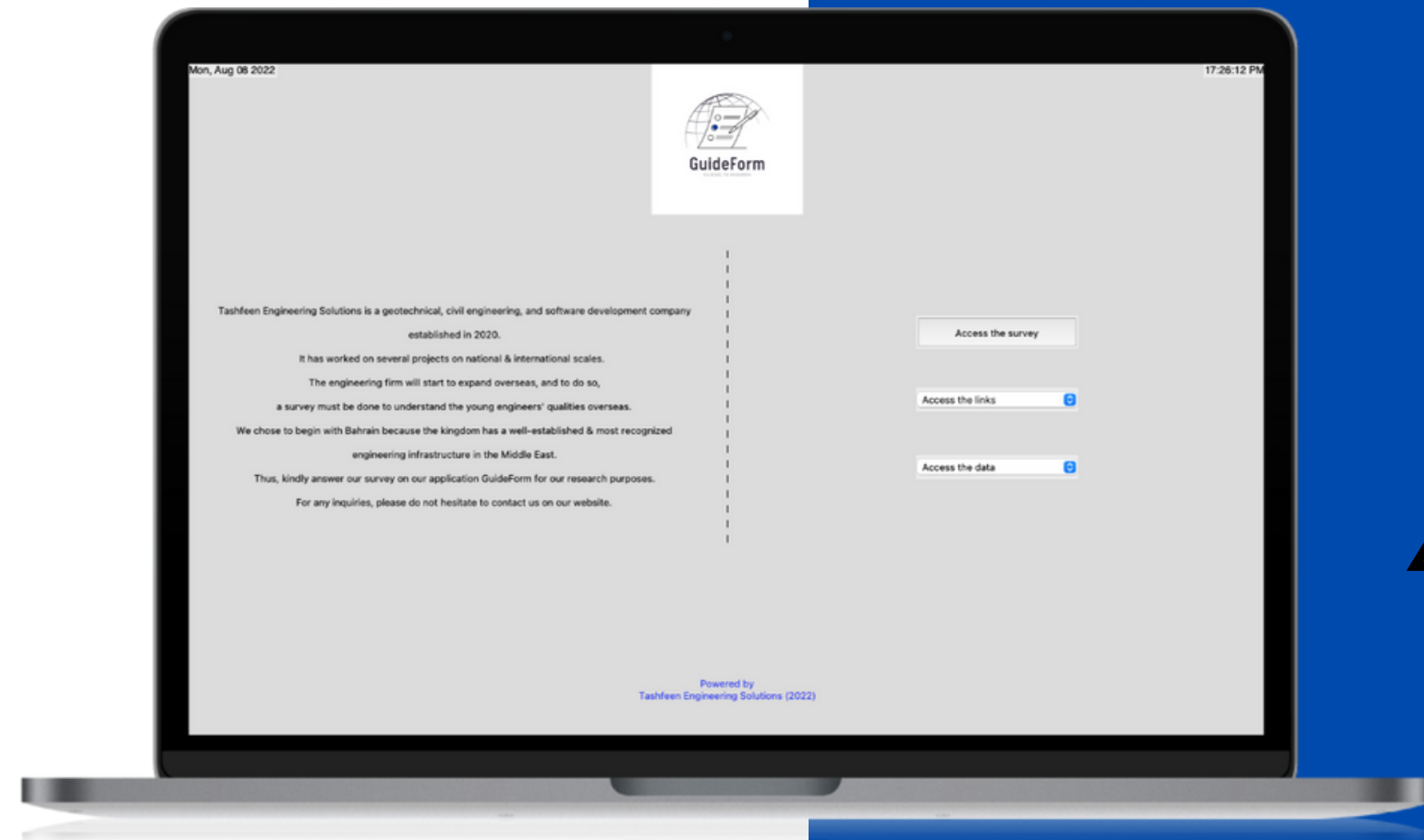
GUIDING TO RESEARCH

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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.



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LIST OF FEATURES

01

THE SURVEY

03

EXTRACT DATA

05

ACCESS
INFORMATION

02

TELEGRAM
CHANNEL

04

VIEW DATA

06

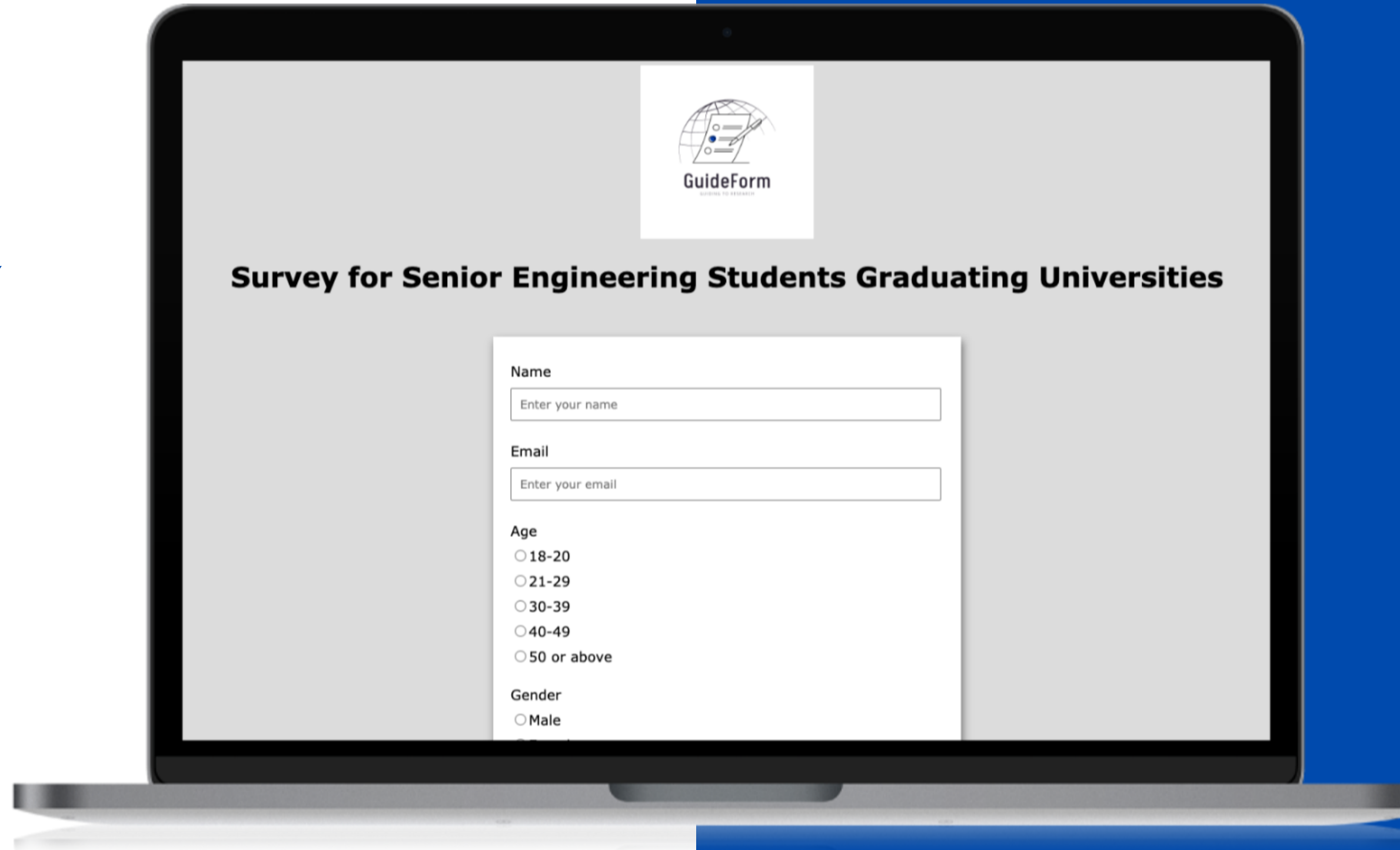
THE WEBSITE

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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The image shows a laptop screen displaying a survey form. The form is titled "Survey for Senior Engineering Students Graduating Universities". In the top right corner of the form, there is a logo for "GuideForm" which includes a globe icon and the text "GuideForm" and "Access to Education". The form fields are as follows:

- Name**: A text input field with the placeholder "Enter your name".
- Email**: A text input field with the placeholder "Enter your email".
- Age**: A group of radio button options:
 - ☐ 18-20
 - ☐ 21-29
 - ☐ 30-39
 - ☐ 40-49
 - ☐ 50 or above
- Gender**: A group of radio button options:
 - ☐ Male

 **University Survey Channel**
4 subscribers

Name: Test
Email: test@gmail.com
Age: 30-39
Gender: Male
University: Applied Science University (ASU)
If your university is not showing, type it here: None
Major: Chemical Engineering
If your major is not showing, type it here: None
What is your next step after graduating from university? Work at a company
Languages and Frameworks known: Blockchain, HTML, PHP, Python,
Other language(s): VHDL
From where did you learn the new language(s)? Online lectures, Self-taught
How long did you spend learning the new language(s)? More than a year
How experienced are you at the language(s) you learned on a scale from 1 to 3? 3 - Very experienced with them
Does learning the new language(s) help you in a way in your career?
Maybe
What are your future career goals? Computer Engineer, Programmer, Web Designer
Any comments or suggestions:
IP Address: ::1

 5 SurveyBot 10:34 AM

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:

```
# 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()

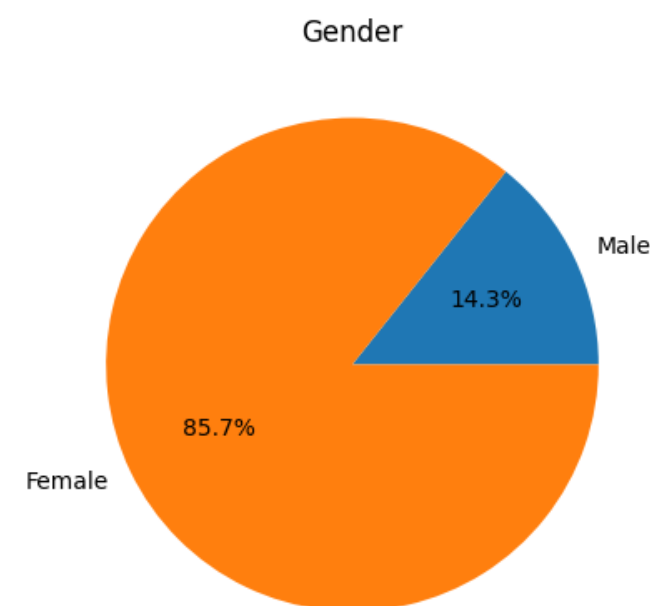
        my_channel = await client.get_entity('Survey2022Channel')
        messages = await client.get_messages('Survey2022Channel')
        message = messages[0]
        textmsg = print(message.raw_text) # raw_text for no formatting

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

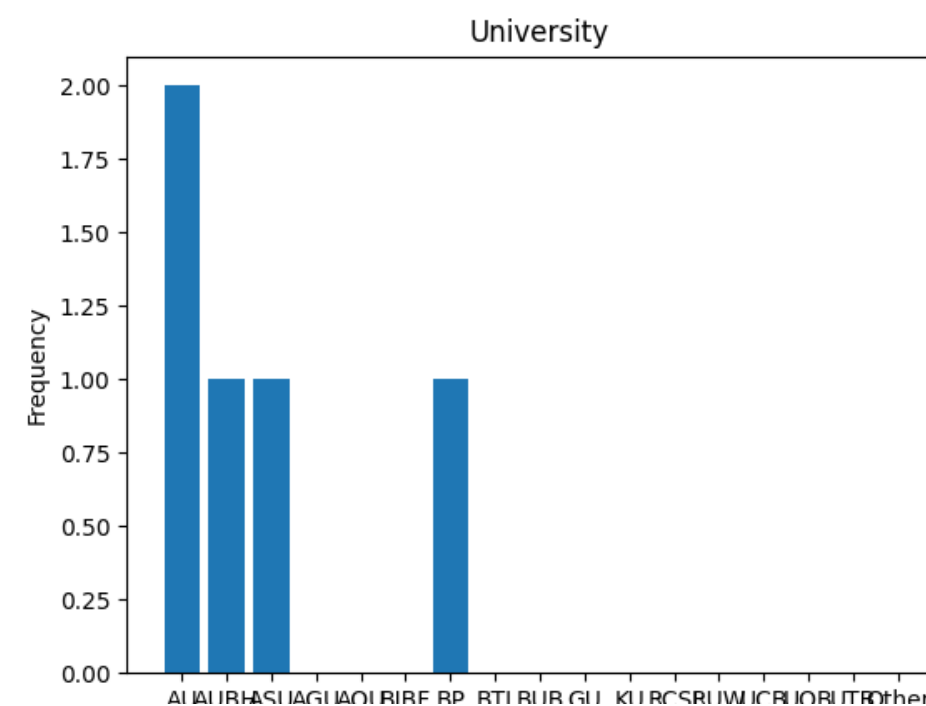
    while True:
        participants = await client(GetParticipantsRequest(
            my_channel, ChannelParticipantsSearch(''), offset, limit,
```

VIEW DATA

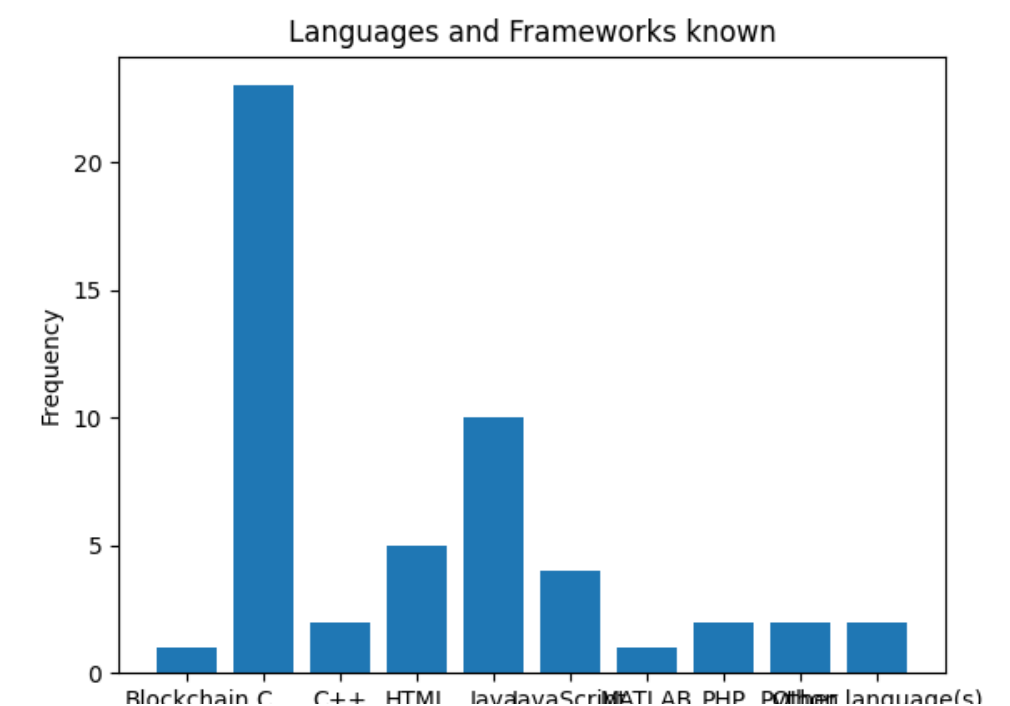
Then, a Python code will generate graphs from the Telegram channel that represents the collected survey responses. That is done by getting the word count of the keywords and then graphing it into bar charts or pie charts, depending on the questions & their responses. A few examples of the graphs are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



Gender



University



Languages and Frameworks known

ACCESS INFORMATION

Page 08 of 10



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

lon, Aug 08 2022

19:21:44 PM



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

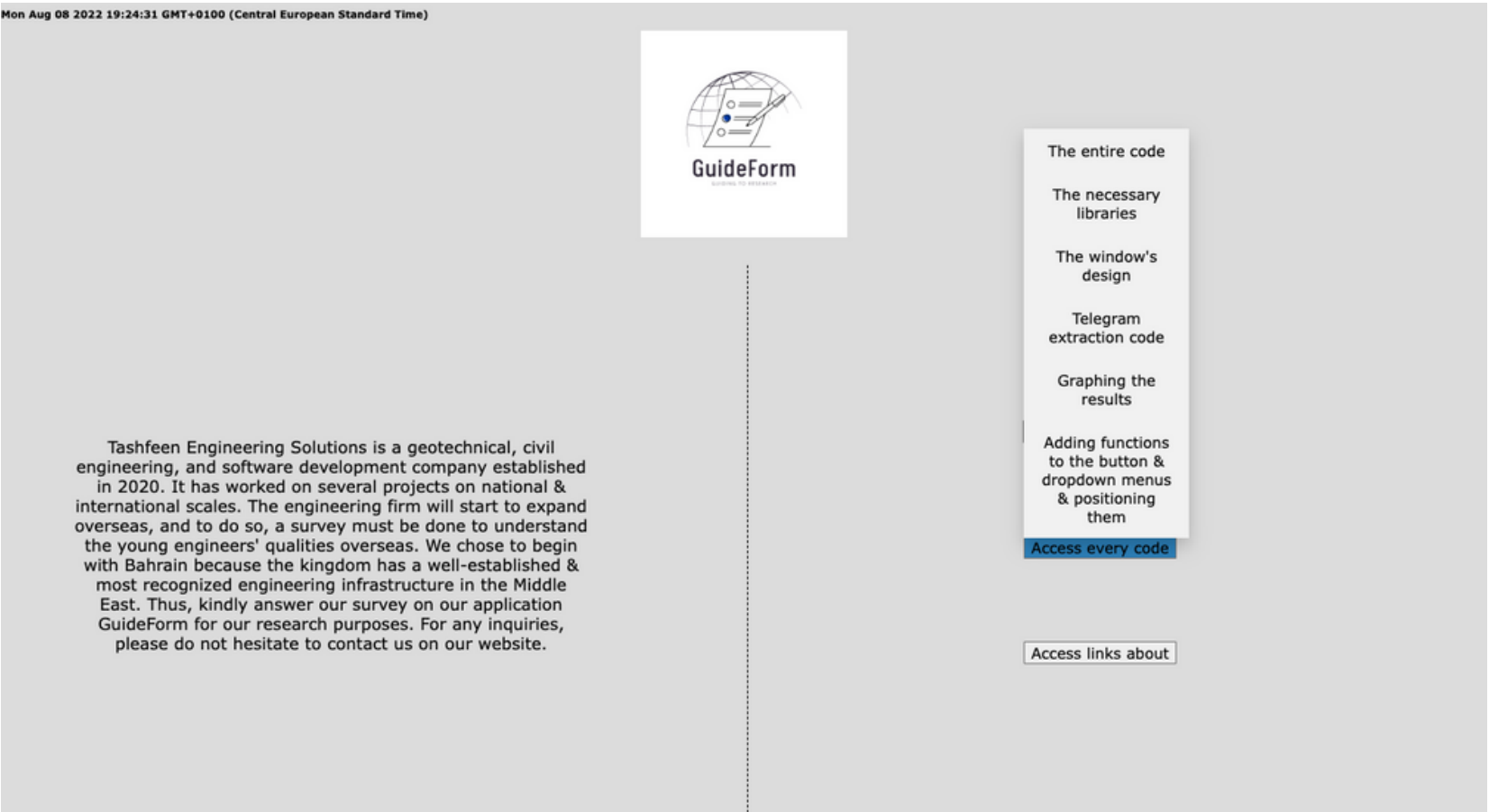
The brochure

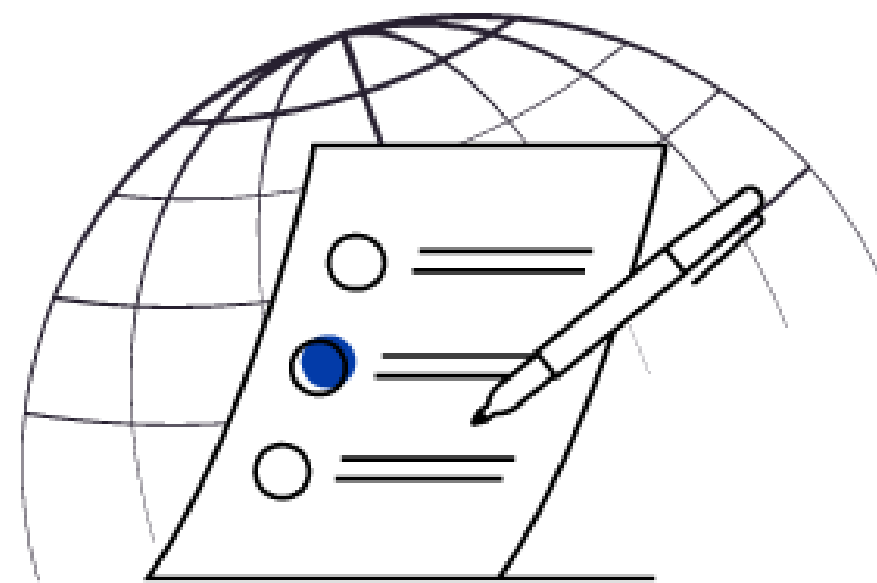
The company

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

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