# Task 10, Part 1: Practical task 1

## Skills and knowledge utilisation

#### **Skills:**

- Proficient in using Python for problem-solving and programming tasks.
- Capable of identifying weaknesses in client systems.
- Able to suggest optimal strategies for addressing various types of cybercrimes.
- Skilled in applying cybersecurity tools to address diverse cybersecurity challenges.
- Proficient in adopting Git/GitHub as a project management and collaboration platform for workflow and version control.
- Employing effective debugging strategies in technical projects.
- Capable of implementing strategies for incident handling, response, and recovery when clients face cybersecurity issues.
- Experienced in offering testing services to evaluate client system defenses against cybercrimes.
- Skilled in setting up security measures focused on big data and log analysis for enhanced security.

### **Knowledge:**

- Comprehensive understanding of software engineering principles.
- Knowledge of cybersecurity concepts and frameworks.
- Understanding of various types of cybercrimes and their implications.
- Expertise in providing tailored solutions or required actions to address client cybersecurity concerns.

- Familiarity with the core procedures of authentication and authorization.
- Awareness of data privacy regulations and compliance requirements when handling client data and information.
- Knowledgeable in advising on the security of client cloud resources and services.

# **Opportunities**

With the growing demand for cybersecurity solutions among small and medium-sized enterprises, targeting this sector could be an excellent starting point to apply the skills gained from the bootcamp. These businesses increasingly require cybersecurity solutions and advice from professionals like us. For instance, as a Potential Driving Instructor franchisee in Road Rule Driving School (<a href="https://www.roadrulesdrivingschool.co.uk/">https://www.roadrulesdrivingschool.co.uk/</a>) — a traditional family business offering driving lessons across Greater London — I have observed significant opportunities for improvement.

## Services offered

I noticed their website is basic and outdated, with notable vulnerabilities in its web application. There are numerous opportunities to enhance the site and introduce modern online services, such as a driving test booking system, inquiry requests, or a chatbot to handle visitor inquiries. Alongside these features, implementing a robust level of cybersecurity protection would safeguard the website from hacking attempts or overloading issues.

This situation is not unique; many similar competitors' websites face the same challenges, providing opportunities to offer comparable services or advice for their website enhancement. Furthermore, I recognize the potential for creating a long-term project by focusing on the driving learner's lifecycle. For example, developing a system to track a learner's journey from the moment they enroll in the driving course, monitor their learning progress, and manage their booking records with driving instructors within the school.

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Ref: https://www.drivinginstructorservices.com

Such a system would represent a valuable digital transformation opportunity for the industry, creating an enhanced product tailored to driving schools. Driving learners may have access to a dedicated app to receive support, alerts, and essential information related to their learning journey. In conclusion, there is significant potential to modernize and transform the driving school industry through innovative digital solutions and improved cybersecurity practices.

## **Application of skills**

To effectively apply the skills and knowledge, a comprehensive approach can be taken to address the unique challenges and opportunities in the driving school industry. For instance, Python programming can be utilized to develop backend systems for managing driving learner data, including lesson schedules, progress tracking, and road lesson bookings. Additionally, by identifying weaknesses in the existing website infrastructure, tailored cybersecurity tools can be employed to mitigate risks such as unauthorized access or data breaches. Leveraging Git/GitHub for version control ensures a collaborative and efficient workflow during the development of these solutions, while debugging strategies help maintain system reliability and address technical issues promptly.

Furthermore, a deep understanding of authentication and authorization processes is critical for implementing secure user login systems, ensuring both instructors and learners can safely access the platform. Adhering to data privacy regulations and advising on secure cloud resource management safeguards sensitive client and learner information, aligning the business with compliance standards. By offering these tailored services and showcasing a clear understanding of industry needs, I can help driving schools modernize their operations, improve learner experiences, and create sustainable, secure digital ecosystems.

# **Building on existing experience**

As a current PDI (Potential Driving Instructor) employed under a driving school franchise, I have the opportunity to gain valuable experience and build connections within the industry. This role allows me to develop a deeper understanding of how this long-standing business operates, enhancing both my skills and knowledge.

I plan to leverage my insider knowledge and connections to identify self-employment opportunities. This involves:

#### 1. Networking within the industry:

- Strengthening relationships with clients, driving school founders, and instructors.
- Attending industry events, workshops, or local business meetups to expand my professional network.
- Engaging with peers and mentors who can provide insights or referrals for potential clients.

#### 2. Identifying market needs:

- Researching underserved areas in driving instruction or related services within my target region.
- Analyzing competitors to identify gaps in their offerings that I can fill.

#### 3. Collaborating with local businesses:

- Partnering with small and medium-sized enterprises in the driving or automotive sector to cross-promote services.
- Offering consulting services to traditional driving schools looking to modernize their operations.

## **Marketing Strategy**

I aim to establish myself as a trusted professional in the driving instruction and related service sectors. This approach ensures sustainable growth and long-term success in self-employment. To effectively market my services, I will implement the following strategies.

### 1. **Online promotion**:

 Creating a website showcasing my skills, experience, and the benefits of my services. Utilizing search engine optimization to ensure visibility for relevant keywords like
"driving instructor services" or "cybersecurity for driving schools."

## 2. Leveraging social media:

- Utilizing Facebook and Instagram to reach a broader audience, including potential learners or school owners.
- Using platforms like LinkedIn to connect with professionals and share insights about driving school trends and innovations.
- Posting engaging content, such as tips for new learners, success stories, or the benefits of digital transformation in the industry.

### 3. Highlighting expertise and value:

Demonstrating the tangible benefits of my services, such as increased efficiency,
better customer engagement, and enhanced cybersecurity.

### 4. Offering promotions:

- Providing discounts for first-time clients to attract interest.
- Running referral programs to encourage word-of-mouth marketing.

## **Timeline**

- Months 1–2: Complete the Skills Bootcamp and consolidate all necessary resources to prepare for website development, CV updates and portfolio building.
- Months 3–5: Develop the website and begin promoting and branding online.
- **Months 6–8**: Initiate discussions with stakeholders in the driving school industry to explore how their websites can be improved. Conduct investigations into potential cybersecurity concerns within the industry.
- Months 9–11: Secure the first paid contract, targeting clients in the driving school industry or other small to mid-sized businesses.
- **Month 12 and onwards**: Continuously seek new clients and invest in ongoing learning to maintain a competitive edge in the field.

**END**