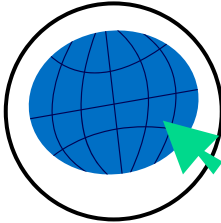


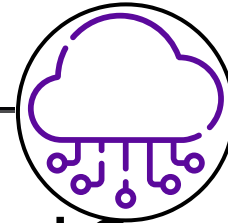
- 1 LEARN
- 2 CERTIFY
- 3 ENGAGE
- 4 COMPETE

FULL STACK DEVELOPMENT

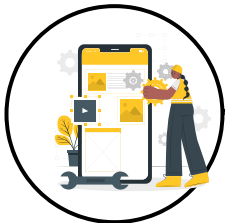
CCNA PROFESSIONALS



WEB DEVELOPMENT



Cloud Computing



Mobile App Development



Financial Technology (FinTech)



Enterprise Applications



Data Science and Analytics

COURSE OUTLINE

Module 01 | Introduction to Full Stack Development

Module 02 | Front-End Development

Module 03 | Back-End Development

Module 04 | Full Stack Integration

Module 05 | DevOps and Deployment

Module 06 | Testing and Quality Assurance

Module 07 | Advanced Topics and Best Practices

Module 08 | Project Work and Portfolio Development

Module **01**

1st
MONTH

Foundations & Core Concepts

Introduction to Full Stack Development

- Overview of Full Stack Development
- Development Environments and Tools

Front-End Development

- HTML and CSS
- JavaScript
- Front-End Frameworks and Libraries

Back-End Development

- Server-Side Programming
- Databases
- Authentication and Authorization

Module **04**

Full Stack Integration

- Connecting Front-End and Back-End
- WebSockets and Real-Time Communication
- GraphQL

Monthly Practical Task

```
def register_user(username):  
    if username in users:  
        print(f"Error: {username} already exists")  
    else:  
        users[username] = password  
        print(f"{username} registered successfully")  
  
def login(username, password):  
    if username in users and users[username] == password:  
        print(f"Welcome, {username}")  
        main_menu(username)  
    else:  
        print("Error: invalid username or password.")
```

FILE SYS_0046.24

```
def main_menu(username):  
    print(f"Main menu (logged in as {username})")  
    print("1. view profile")  
    print("2. edit profile")  
    print("3. log out")  
    choice = int(input("Enter choice: "))  
    # Add code to handle main choices here  
  
    print("Welcome user (login)")  
    print("1. Register")  
    print("2. Login")  
  
    choice = int(input("Enter choice: "))  
  
    if choice == 1:  
        username = input("Enter username: ")  
        password = input("Enter password: ")  
        register_user(username, password)  
    elif choice == 2:  
        username = input("Enter username: ")  
        password = input("Enter password: ")  
        login(username, password)  
    else:  
        print("Invalid choice.")
```

At the end of Month 1, take a comprehensive practice test covering all the topics studied so far. Evaluate your performance and identify weak areas for further study.

DevOps and Deployment

- Development and Deployment Workflows
- Containerization with Docker
- Cloud Platforms and Services

Testing and Quality Assurance

- Unit and Integration Testing
- End-to-End Testing
- Performance and Security Testing

Module **07**

Advanced Topics and Best Practices

- Microservices Architecture
- Serverless Architecture
- Advanced JavaScript

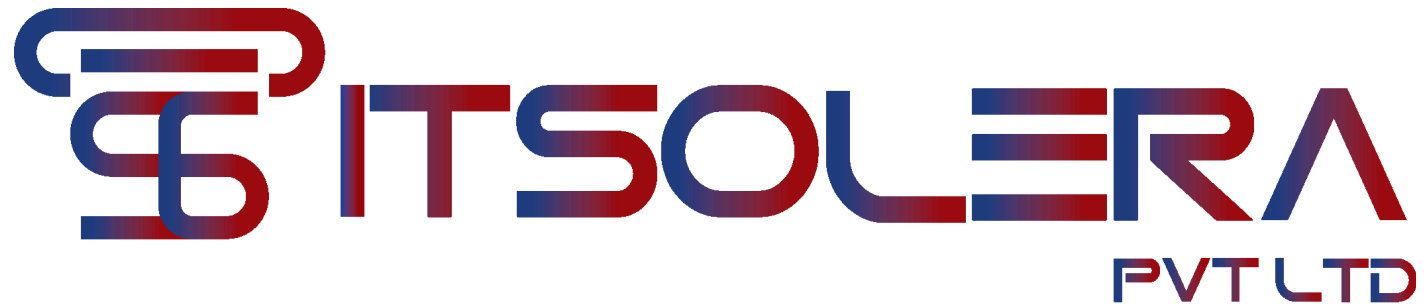
Module 08

Project Work and Portfolio Development

- Capstone Project
- Portfolio Development

Monthly Practical Task

At the end of Month 2, take another comprehensive practice test that covers all topics studied during the second month. Evaluate your progress and areas that still need improvement.



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