Kishkindha university Ballari

DEPARTMENT OF Computer Science and ENGINEERING

CERTIFICATE

This is to certify that the Internship entitled " PROJECT SCHEDULING ASSISTANT " has been successfully completed by MOHAMMAD AZHAR Hussam bearing USN

bonafide students of Ballari Institute of Technology and Management, Ballari. For the partial fulfillment of the requirements for the Computer science and Engineering Engineering of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2023-2024.

Signature of Internship

Co-ordinator

Signature of HOD

Ass.prof.l Cse

Prof. and HOD of Of Cse

Kishkindha university

Ballari

INTERNSHIP

Report On

PROJECT SCHEDULING ASSISTANT

Submitted in partial fulfillment of the requirements for the award of degree of

Bachelor of Engineering
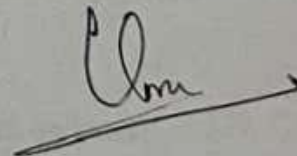### In

Computer Science and Engineering

Submitted by

MOHAMMAD AZHAR HUSSAIN

Internship Carried Out By
EZ TRAININGS & TECHNOLOGIES PVT.LTD HYDERABAD

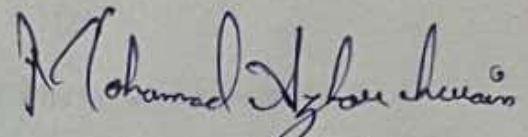**Internal Guide**   **External Guide**

DECLARATION

I, _____ ,second year student of Computer Science and Engineering
Of Technology And Management, Ballari, declare that Internship entitled **PROJECT SCHEDULING ASSISTANT** is a part of internship Training successfully carried out by **EZ TECHNOLOGIES & TRAININGS PVT.LTD, HYDERABAD** at Kishkindha   This report is submitted in partial fulfilment of requirements for the award of the degree, Bachelor of Engineering in Computer Science and Engineering
. . . .

Signature of the Student

Date : 28/09/2024
Place : Ballari

ACKNOWLEDGEMENT

The satisfactions that a company the successful completion of my internship on " PROJECT SCHEDULING ASSISTANT " would be incomplete without the mention of people who made it possible, whose noble gesture, affection, guidance, encouragement and support crowned my efforts with success. It is my privilege to express my gratitude and respect to all those who inspired me in the completion of my internship.

I am grateful to our respective coordinators "Naga Pratyusha (Asst.prof,EEE)" for their noble gesture, support co-ordination and valuable suggestions given to us in the completion of Internship.

I also thank Sharan Reddy, H.O.D. Department of **Electrical and Elecronics Engineering** for extending all her valuable support and encouragement.

KISHKINDA UNIVERSITY

ADVANCING KNOWLEDGE TRANSFORMING LIVES

(Established under the Karnataka State Act No. 20 of 2023)

Internship Program on Python for B.Tech-3rd Sem students
From 9th to 28th September 2024 (During 3rd semester vacations).

Student Name: Mohammed Azhar Hussain   USN No: Branch: B.Tech-CSE

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KISHKINDA UNIVERSITY

5W38+WVG,Siruguppa Rd,Ashok Nagar,Rajeshwari Nagar, Bellari, Karnataka 583275.

Department of Computer Science & Engineering

Project Presentation on
"Consulate Booking System"

Presented by:-

Mohammad Azhar hussain
Srirama D
Gous
Tanveer Hussain
Mohammed Tanveer P
Mohammed Haseeb

Consulate Booking System

System

APPOINTMENT MANAGEMENT WITH MYSQL INTEGRATION

Introduction

Overview of the System

- **Purpose:** Manage appointment bookings for consulate services.

- **Key Features:** Booking, cancelling, viewing appointments, and MySQL database integration.

Class Structure

Main Classes

- **Appointment:** Attributes: name, service, date, time

- **ConsulateBookingSystem:** Manages appointments (book, cancel, view)

- **AppointmentAdmin:** Manages MySQL database interactions.

Booking, Cancelling, viewing Appointments methods

Booking Appointment
Method: book_appointment(name, service, date, time)

Canceling Appointments.
Method: cancel_appointment(appointment_id)by using appointment ID.

Viewing Appointments
Method: view_appointments() Displays all scheduled appointments.

Adding Appointment Holders
Method: add_appointment_holder(appointment) Inserts appointment details into the database.

Details()

▸ **Method:** details() used to displays all records from the database

▸ Database Connection Connect Details Parameters: host, user, password, database. Error handling for connection issues.

▸ Unit Testing Test Appointment Service System **Class** Uses unittest framework. Tests for adding appointments and fetching details.

"Thank you kindly"

```python
                                    import mysql.connector
import mysql.connector
from mysql.connector import Error
import unittest

class Appointment:
    def __init__(self, name, service, date, time):
        self.name = name
        self.service = service
        self.date = date
        self.time = time

    def __str__(self):
        return f"Appointment for {self.name}: {self.service} on {self.date} at
{self.time}"

class ConsulateBookingSystem:
    def __init__(self):
        self.appointments = {}

    def book_appointment(self, name, service, date, time):
        appointment_id = len(self.appointments) + 1
        appointment = Appointment(name, service, date, time)
        self.appointments[appointment_id] = appointment
        print(f"Appointment booked successfully! ID: {appointment_id}")

    def cancel_appointment(self, appointment_id):
        if appointment_id in self.appointments:
            del self.appointments[appointment_id]
            print("Appointment canceled successfully!")
        else:
            print("Invalid appointment ID!")

    def view_appointments(self):
        if not self.appointments:
            print("No appointments scheduled.")
            return
        for appointment_id, appointment in self.appointments.items():
            print(f"ID: {appointment_id}, {appointment}")

class AppointmentAdmin:
    def __init__(self, host, user, password, database):
        try:
            self.conn = mysql.connector.connect(
                host=host,
                user=user,
                password=password,
                database=database
            )
            if self.conn.is_connected():
                print("Connected to MySQL Database")
                self.cursor = self.conn.cursor()
            else:
                print("Connection to MySQL failed.")
                self.cursor = None
        except Error as e:
            print(f"Error connecting to MySQL: {e}")
            self.conn = None
            self.cursor = None

    def add_appointment_holder(self, appointment):
        if self.cursor is None:
            print("Cannot add Appointment Holder Details. No database connection.")
            return
```

```python
import mysql.connector
    try:
        query = "INSERT INTO service (name, service, date, time) VALUES (%s, %s,
%s, %s)"
        values = (appointment.name, appointment.service, appointment.date,
appointment.time)
            self.cursor.execute(query, values)
            self.conn.commit()
            print(f"Account record for {appointment.name} added.")
        except Error as e:
            print(f"Failed to insert record: {e}")

    def details(self):
        if self.cursor is None:
            print("Cannot fetch Appointment Holder Details. No database
connection.")
            return
        try:
            query = "SELECT * FROM service"
            self.cursor.execute(query)
            results = self.cursor.fetchall()
            print('----**Details**---')
            for row in results:
                print(row)
        except Error as e:
            print(f'Failed to fetch details: {e}')

def main():
    system = ConsulateBookingSystem()
    admin = AppointmentAdmin("localhost", "root", "user", "passport_renewal")

    while True:
        print("\nConsulate Services Booking System")
        print("1. Book Appointment")
        print("2. Cancel Appointment")
        print("3. View Appointments")
        print("4. Details")
        print("5. Exit")

        choice = input("Choose an option: ")

        if choice == '1':
            name = input("Enter your name: ")
            service = input("Enter the service required (e.g., Visa, Passport): ")
            date = input("Enter the date (YYYY-MM-DD): ")
            time = input("Enter the time (HH:MM): ")
            system.book_appointment(name, service, date, time)
            appointment = Appointment(name, service, date, time)
            admin.add_appointment_holder(appointment)

        elif choice == '2':
            appointment_id = int(input("Enter appointment ID to cancel: "))
            system.cancel_appointment(appointment_id)

        elif choice == '3':
            system.view_appointments()

        elif choice == '4':
            admin.details()   # Call details from admin instance

        elif choice == '5':
            print("Exiting the system.")
            break
```

```python
                        import mysql.connector
        else:
            print("Invalid choice, please try again.")

class TestAppointmentServiceSystem(unittest.TestCase):
    def setUp(self):
        self.admin = AppointmentAdmin("localhost", "root", "user",
"passport_renewal")
        self.appointment = Appointment('John Doe', 'Passport', '12-12-2022',
'12:30')

    def test_add_appointment(self):
        self.admin.add_appointment_holder(self.appointment)

    def test_view_details(self):
        self.admin.details()

if __name__ == "__main__":
    main()
```