BASAVARAJESWARI GROUP OF INSTITUTIONS

Ballari Institute of Technology & Management

AUTONOMOUS INSTITUTE UNDER VISVESVARAYA TECHNOLOGICAL UNIVERSITY JNANASANGAMA,

BELAGAVI 590018

INTERNSHIP

Report On

Athlete media appearance scheduler

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

Bachelor of Engineering

In

COMPUTER SCIENCE AND ENGINEERING

Submitted by Sneha Devale :3BR22CS164

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

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BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT

NACC Accredited Institution*

(Recognized by Govt. of Karnataka, approved by AICTE, New Delhi & Affiliated to Visves varaya Technological University, Belagavi)

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CERTIFICATE

This is to certify that the Internship entitled "Athelete media appearance scheduler" has been successfully completed by Sneha Devale bearing USN 3BR22CS164 bearing USN bearing USN bearing USN a bonafide student of Ballari Institute of Technology and Management, Ballari. For the partial fulfillment of the requirements for the Bachelor's Degree in Computer Science and Engineering of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, Belagavi during the academic year 2023-2024.

Signature of Internship

Co-ordinators

Mrs. MADHURI A

Assistant Professor ,CSE

&

Ms. SAMEENA YASMEEN Supervisor ,CSE

Signature of HOD

Dr. R N KULKARNI

Professor & HOD(CSE)

DECLARATION

I, Sneha Devale & Tejashwini VR & Yashoda & Shridevi, second year student of Computer Science and Engineering, Ballari Institute of Technology, Ballari, declare that Internship entitled ATHELETE MEDIA APPEARANCE SCHEDULER is a part of Internship Training successfully carried out by EZ TECHNOLOGIES & TRAININGS PVT.LTD, Hyderabad at "BITM, BALLARI". This report is submitted in partial fulfillment of the requirements for the award of the degree, Bachelor of Engineering in Computer Science and Engineering of the Visvesvaraya Technological University, Belagavi.

Date : 4-5-2024 Signature of the Student

Place : Ballari

ACKNOWLEDGEMENT

The satisfactions that a company the successful completion of my internship on "Athelete media appearance scheduler" 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 my respective coordinators "Mrs.Madhuri A(Asst.prof,CSE) and Ms.Sameena Yasmeen (Supervisor,CSE)" for their noble gesture, support co-ordination and valuable suggestions given to me in the completion of Internship.

I also thank **Dr. R N Kulkarni,** HOD , Department of **Computer Science and Engineering** for extending all his valuable support and encouragement.

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COMPANY PROFILE

Company Name: EZ Trainings and Technologies Pvt. Ltd.

Introduction:

EZ Trainings and Technologies Pvt. Ltd. is a dynamic and innovative organization dedicated to

providing comprehensive training solutions and expert development services. Established with

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in college trainings for students, focusing on preparing them for successful placements. Additionally, we excel in undertaking development projects, leveraging cutting-edge technologies to bring ideas to life.

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Our mission is to empower the next generation of professionals by imparting relevant skills and

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of students and contribute to the technological advancement of businesses through our development projects.

College Trainings:

- * Tailored training programs designed to enhance the employability of students.
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- * Expertise in diverse technologies and frameworks.
- * Custom solutions to meet specific business needs.

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At EZ Trainings and Technologies Pvt. Ltd., we believe in transforming potential into excellence

DAY TO DAY ACTIVITIES



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flow chart





A 16/24

Internship Program on Python for BE-3rd Sem students From 15th April to 4th May 2024 (During 3rd semester vacations).

Student Name: Sneha Devale USN No: 3BR12CS164 Branch: CSE INDEX PAGE Signature of the Day Date **Content Covered** faculty in-charge Thetellation reme for the Python, bython introduction, the trulation, inclosional mules to the proposition of the python introduction the trulation of python or and the python th 1 15.04.24 2 16.04.24 ist compronsion, map (), list and methods 17.04.24 3 set and tuble method bandling exception handling to brithin account 18.04.24 4 Bancking application pologram project, ATM applica-tion Project using dict, function & oops, oops classes 19.04.24 5 copy - polymbrighism eventains, overloading super), contra the All types of inheritance - Past class all the Drughams -implemented is applied in inheritant Zellert calendericles work, encapsulation, Batches spirited are 20.04.24 6 pops-Abstraction. Park, Ides, Mills Program like bis, out her Interview quest Inclace usage 105-5-ack application with Programm 7 22.04.24 Struct, union-Memory allocation . L. L. 3 comp any specific 8 23.04.24 company species program exemple Queue - using list, enque deque importing module & oops classes springram Practice based on last class Types of Pointers in a and international flow. Back tocking 9 24.04.24 L 1 - singly in class soom, sorting - 3 sorting with into rale work flow along with time compressity bould classify cation on past classes 10 25.04.24

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ABSTRACT

The main idea of this project is to create a simple media appearance scheduler for athletes. The program defines three classes:

- 1. **Athlete**: Represents an athlete with attributes like athlete ID, name, and sport.
- 2. **MediaScheduler:** Represents a media appearance schedule with attributes like schedule ID, athlete ID, date, and media outlet.
- 3. **Scheduler**: Manages media appearance schedules and provides methods to create, read, update, and delete schedules, as well as to organize media appearances for a specific athlete.
- 1. **Athlete Class:** This class represents an athlete and has the following attributes:
- **athlete_id**: An integer representing the unique ID of the athlete.
- **name**: A string representing the name of the athlete.
- **sport:** A string representing the sport in which the athlete participates.
- 2. **MediaScheduler Class:** This class represents a media appearance schedule and has the following attributes:
- **schedule_id**: An integer representing the unique ID of the schedule.
- athlete_id: An integer representing the ID of the athlete associated with the schedule.
- date: A string representing the date of the media appearance.
- **media_outlet:** A string representing the media outlet for the appearance.
- 3. **Scheduler Class:** This class manages the media appearance schedules and provides methods to interact with them. It has the following attributes and methods:
- **schedules**: A list to store instances of MediaScheduler class representing all the schedules.
- **media_outlets**: A dictionary to store media outlets and their corresponding schedules.
- athletes: A list to store instances of the Athlete class representing all the athletes.
- **create_media_schedule(schedule_id, athlete_id, date, media_outlet):** Method to create a new media appearance schedule and add it to the list of schedules.
- **read_media_schedule(schedule_id):** Method to retrieve a media appearance schedule based on its ID.
- **update_media_schedule(schedule_id, updated_data)**: Method to update the date or media outlet of a media appearance schedule.

- **delete_media_schedule(schedule_id):** Method to delete a media appearance schedule.
- **organize_media_appearances(athlete_id):** Method to retrieve all media appearances for a specific athlete.
- 4. **TestScheduler Class:** This class contains unit tests to verify the functionality of the Scheduler class. It sets up a Scheduler instance with sample data and tests various methods of the Scheduler class.

Overall, the project demonstrates object-oriented programming concepts in Python, such as classes, objects, methods, and inheritance, to create a simple media appearance scheduler for athletes.

INTRODUCTION OF THE PROJECT

This program is a simple implementation of a media appearance scheduler for athletes. It uses classes to represent athletes and their media schedules. The Scheduler class manages these schedules and provides methods for creating, reading, updating, and deleting them. It also includes a method to organize media appearances for a specific athlete.

The TestScheduler class contains unit tests to verify the functionality of the Scheduler class. These tests ensure that the scheduler behaves as expected when creating, reading, updating, and deleting media schedules.

Problem Statement:

- •The challenge of efficiently managing media appearances for athletes is a complex one, requiring careful coordination and organization.
- •Without a centralized system, scheduling conflicts and communication gaps can arise, leading to missed opportunities and disorganized appearances.

Objective:

•To develop a Proof of Concept (POC) for an Athlete Media Appearance Scheduler using object-oriented programming (OOP) and data structures and algorithms (DSA) principles in Python.

The POC aims to demonstrate the feasibility and functionality of such a system, focusing on

CRUD operations for media schedules, organizing appearances for athletes, and managing relationships with media outlets. This project aims to develop a Proof-of-Concept (POC) application in Python to streamline the scheduling of media appearances for athletes. It leverages the power of Object-Oriented Programming (OOP) and Data Structures and Algorithms (DSA) principles.

MODULE DISCRIPTION

■ **The Athlete class:** it provides a blueprint for creating objects that represent athletes.

Each instance of this class encapsulates information about a specific athlete, including their unique identifier (athlete_id), name (name), and the sport (sport) they participate in.

- The MediaSchedule class: is designed to manage and organize media schedules associated with individual athletes within a software system. It encapsulates information related to scheduled media appearances or events for athletes, facilitating efficient tracking and management of media engagements.
- The Scheduler class: serves as a central component for managing scheduling operations within a software system. It provides functionality for organizing various schedules, including media engagements, events, or appointments. Additionally, it

facilitates the coordination of schedules for athletes and media outlets.

• The TestScheduler class: is a vital component in software testing environments. It's

designed to facilitate the scheduling, organization, and execution of tests within a testing framework or environment. This class serves as a central hub for managing various test cases, ensuring they run efficiently, and collecting results for analysis.

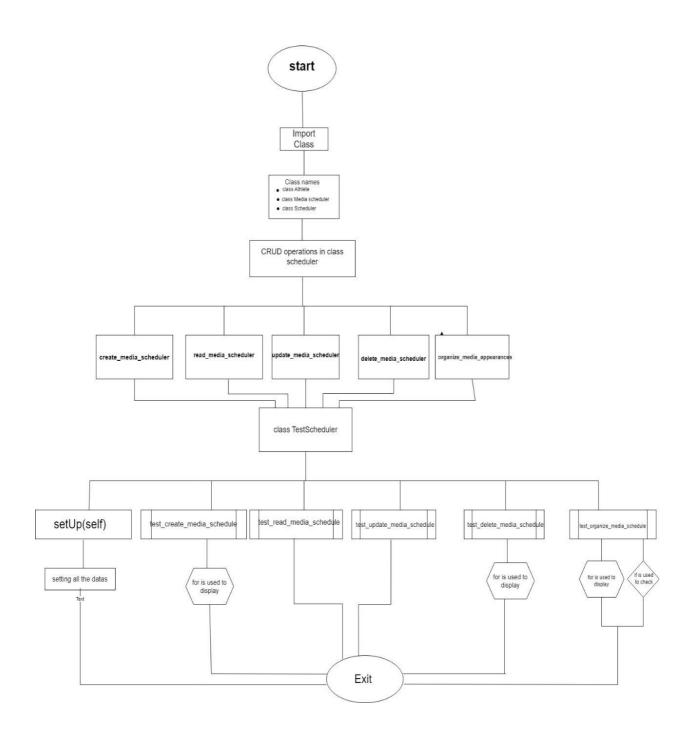
- create_media_schedule(schedule_id, athlete_id, date, media_outlet): Creates a
 new media schedule entry with the provided details and adds it to the list of
 schedules.
- read_media_schedule(schedule_id): Retrieves the media schedule entry corresponding to the given schedule ID.
- update_media_schedule(schedule_id, updated_data): Updates the details of the media schedule entry identified by the given schedule ID with the provided updated data.
- delete_media_schedule(schedule_id): Deletes the media schedule entry associated with the given schedule ID from the list of schedule
- test_delete_media_schedule(self): This method tests the delete_media_schedule method of the Scheduler class. It checks whether the method correctly removes a media schedule entry from the scheduler's list of schedules based on the provided schedule ID.
- test_organize_media_appearances(self): This method tests the organize_media_appearances method of the Scheduler class. It verifies whether the method correctly retrieves all media appearances scheduled for a specific athlete based on the provided athlete ID.

• **unittest.main()** is a method provided by the unittest module, which is Python's builtin testing framework. The verbosity parameter controls the amount of detail displayed in

the test results output.

- It accepts three levels of verbosity:
- 0: Quiet mode, only displays the total number of tests and errors.
- 1: Default mode, displays a dot for each successful test and F for each failed test, along with the total counts.
- 2: Verbose mode, displays the name of each test and its result, including successful tests. In your script, unittest.main(verbosity=0) is set to quiet mode (verbosity=0), meaning it will only show the total number of tests run and any errors encountered, without detailed test-by-test output.

FLOW CHART



OUTPUT

```
>>> %Run 'python project.py'
 test_create_media_schedule (__main__.TestScheduler) ...
 Media Schedules:
  Schedule ID: 1, Athlete ID: 1, Date: 2024-05-01, Media Outlet: dd
  Schedule ID: 2, Athlete ID: 2, Date: 2024-05-02, Media Outlet: star sports
  Schedule ID: 3, Athlete ID: 3, Date: 2024-05-03, Media Outlet: sports +
 test delete media schedule ( main .TestScheduler) ...
 Remaining Media Schedules:
  Schedule ID: 2, Athlete ID: 2, Date: 2024-05-02, Media Outlet: star sports
  Schedule ID: 3, Athlete ID: 3, Date: 2024-05-03, Media Outlet: sports +
 ok
 test_organize_media_appearances (__main__.TestScheduler) ...
 Media Appearances for Athlete ID 2:
  Schedule ID: 2, Date: 2024-05-02, Media Outlet: star sports
 test_read_media_schedule (__main__.TestScheduler) ...
 Read Media Schedule:
 Schedule ID: 1, Athlete ID: 1, Date: 2024-05-01, Media Outlet: dd
 test_update_media_schedule (__main__.TestScheduler) ...
 Updated Media Schedule:
 Schedule ID: 2, Athlete ID: 2, Date: 2024-05-05, Media Outlet: star sports
  _____
 Ran 5 tests in 0.085s
 OK
```

Process ended with exit code 0.

CONCLUSION

The code defines classes for managing media schedules for athletes. Here's a brief conclusion for the code:

- The Athlete class represents an athlete with attributes such as athlete_id, name, and sport.
- The **MediaScheduler** class represents a media schedule with attributes such as schedule id, athlete id, date, and media outlet.
- The Scheduler class manages media schedules and athletes. It has methods to create, read, update, and delete media schedules, as well as organize media appearances for a specific athlete.
- The **TestScheduler** class contains unit tests for the methods in the Scheduler class to ensure they work as expected.

Overall, the code provides a basic framework for managing media schedules for athletes, including functionality for CRUD operations and organizing media appearances

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https://apphttps://app.diagrams.net/.diagrams.net/
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 GITHUB ACCOUNT:

 https://github.com/shridevi-23

 https://github.com/tejashwinivr/BITM
 https://github.com/Snehadevale
 https://github.com/yashodhakampli