



Scoring System and Administration on Wushu Championship

Group: 5

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Class: 3CS1

CEP CCIT

FAKULTAS TEKNIK INDONESIA

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PROJECT ON

Object Oriented Programming

Developed By

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Scoring System and Administration on Wushu Championship

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Date Of Submisson: September 30,2023

CERTIFICATE

This is to certify that the report titled "Scoring System and Administration on Wushu
Championship", embodies the original work done by Asia Illumina Lessy and Nur Iqbal
Maulana. Project in partial fulfillment of their course requirement at NIIT.
Coordinator:
Ivan Firdaus, S. T.

ACKNOWLEDGEMENT

The author expresses his gratitude to Allah SWT for all the abundance of grace and mercy. His mercy and grace, and do not forget the shalawat and greetings we send to the Prophet Muhammad SAW, so that we can complete this project with the title "Scoring System and Administration on Wushu Championship" and without him we would not be able to complete this project on time. Time that has been calculated, and the author also wants to thank Mr Ivan Firdaus, S. T., as the supervisor who has provided suggestions and advice that are very helpful to the author in writing this project. Although there are many challenges and obstacles that we face in making this project, we can finally complete it. Finally, we were able to complete this project. The author realizes that this assignment is still far from perfection, and if colleagues and lecturers are willing to provide suggestions and criticism, then this assignment is not perfect. Supervisors are pleased to provide suggestions and criticism for the sake of the perfection of this project, and we as writers will be greatly helped. We, as writers, will be greatly helped by these suggestions and criticisms.

BACKGROUND

Wushu is a traditional Chinese martial art that includes two main aspects: Taolu and Sanda. Taolu involves regular practice or tao with beautiful and intricate movements, judged on technique, strength, and artistic expression. Meanwhile, Sanda focuses on standing combat with athletes using martial techniques to attack and defend, judged on the effectiveness of attacks, and throwing opponents to the ground. Wushu also has roots in traditional Chinese martial arts and has developed into an international competitive sport, blending elements of performing arts with martial arts skills.

Nowadays, Wushu is a fairly popular sport. So many kinds of competitions are made. As technology advances, Wushu activists begin to deliver their innovations, to improve the effectiveness and efficiency of the course of the competition. Scoring is one of the technologies developed to realize the goal and increase the popularity of the Wushu sport itself.

The project this time will discuss a general overview of the use and implementation of OOP in the Wushu championship. The aim is to provide a further overview and understanding of how the OOP can be applied to an event, especially a championship event.

I hope this project will provide a useful insight and facilitate an understanding of how the OOP using Python Language is estimated to be used in a Wushu Championship. May this report be useful to all those involved in the use and the development of technology, to the sports activists, as well as provide a deep understanding of the application of Object Oriented Programming.

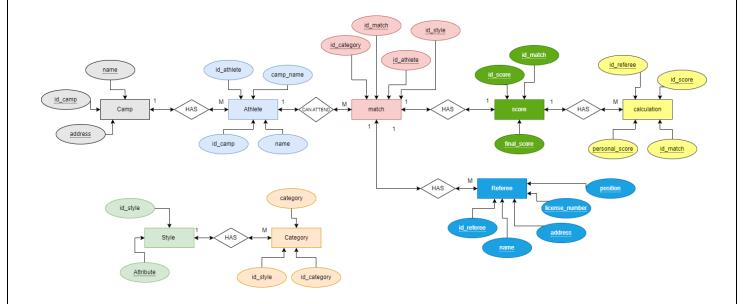
SYSTEM ANALYSIS

System Summary: Wushu championships are organised to facilitate disciplines to demonstrate their abilities and become new career paths, ranging from athletes, coaches, referees, and Professional IT teams related in championships to bureaucratic affairs. This project will briefly explain how OOP can be implemented into sport competition.

System Processes:

- 1. Creating the database on MySQL Server
- 2. Implementing OOP Principal using Python Language:
 - a. Changing participant's name:
 - i. Updating participat's name in database with the new (correct) name
 - b. Scoring System
 - i. Showing Match information based on database
 - ii. Inserting Referee information, score by referee, and inserting final score to database(using procedure)
 - iii. Deleting the previous information inserted to the database system such as referee information, score by referee, and final score

ENTITES RELATIONAL DIAGRAM

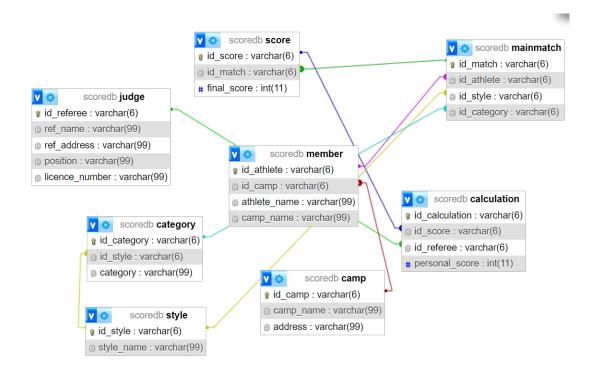


ENTITIES

Number of Entities: 9

- 1. Camp
- 2. Member
- 3. Style
- 4. Category
- 5. Match
- 6. Referee
- 7. Score
- 8. Calculation of Score

DATABASE DIAGRAM



DATABASE CONTENTS

id_camp	camp_name	address
S01	WUSHU UDAYANA	DENPASAR
S02	BLUE SPIDER	TANGERANG
S03	8 NAGA	BANDUNG
S04	SWI LABA-LABA SAKTI	JAKARTA
S05	ALMA WUSHU	SALATIGA
S06	YAYASAN INTI BAYANGAN	JAKARTA
S07	UNNES	JAKARTA
S08	TIAN EN	SURAKARTA
S09	HARMONY WUSHU INDONESIA	BOGOR
S10	ACMA	BOGOR
S11	WUXIA ACADEMY	SIDOARJO

Table of Camps

id_athlete	id_camp	athlete_name	camp_name
7000	S06	enrico	INTI BAYANGAN
7001	S06	NIMAS	INTI BAYANGAN
7002	S01	NI LUH RATNA	UDAYANA
7003	S01	KOMANG AGUS	UDAYANA
7004	S09	ZOURA	HARMONY WUSHU
7005	S09	GOVIN	HARMONY WUSHU
7006	S10	ALICIA	ACMA
7007	S10	JACKY	ACMA
7008	S05	CAROLINE	ALMA WUSHU
7009	S05	KEZIA	ALMA WUSHU
7010	S08	BRIGITA	TIAN EN
7011	S08	AXELIA	TIAN EN

Table of Member (Participants)

id_referee	ref_name	ref_address	position	licence_number
W101	Agus	Semarang	Side Judge	LIS-NAS2022
W102	Asep	Bandung	Side Judge	LIS-DJB2019
W103	Jeje	Jakarta	Juri Sisi	LIS-INT2022
W104	Darmaji	Yogyakarta	Chairman	LIS-NAS2020
W105	Edward	Surabaya	Side Judge	LIS-NAS2022
W106	Jo	Depok	Side Judge	LIS-DJB2020
W107	Johar	Jakarta	Vice Chairman	LIS-NAS2022
W108	Lena	Jakarta	Side Judge	LIS-NAS2020
W109	Nyoman	Bali	Chief of Field	LIS-NAS2021

Table of Judges

id_style	style_name
J01	DRUNKEN MASTER
J02	MONKEY KING
J03	CHANG QUAN
J04	JIAN SHU
J05	DAO SHU
J06	QIANG SHU
J07	GUN SHU
J08	CHUJI NAN QUAN
J09	MOK YAN JONG
J10	CHUJI NAN GUN
J11	NAN QUAN
J12	NAN DAO
J13	NAN GUN
J14	TAIJI QUAN
J15	TAIJI JIAN
J16	BAAT JARM DAO
J17	DUILIAN
140	IITI EMDTV LIANDO

Table of Styles

id_category	id_style	category
D010	J01	FREESTYLE
D011	J02	WEAPON
D012	J02	EMPTY HAND
D013	J03	SD
D014	J03	SMP
D015	J03	SMA
D016	J04	SD
D017	J04	SMP
D018	J04	SMA
D019	J04	MAHASISWA
D020	J06	SMA
D021	J06	FREESTYLE
D022	J07	SMA
D023	J07	MAHASISWA
D100	J10	SD
D111	J11	SMP
D112	J11	SMA
D113	111	FDFFQTVI F

Table of Categories

id_match	id_athlete	id_style	id_category
A001	7005	J01	D010
A002	7003	J01	D010
A003	7000	J01	D011
A004	7007	J01	D012
A005	7005	J03	D014
A006	7002	J03	D022
A007	7004	J03	D022
A008	7000	J04	D014
A009	7004	J04	D111
A010	7008	J04	D017
A011	7001	J06	D117
A012	7005	J06	D012
A013	7001	J07	D023
A014	7001	J11	D115
A015	7002	J11	D113
A016	7005	J11	D113
A017	7003	J12	D114
A018	7003	J13	D119

Table of Main Match

id_calculation	id_score	id_referee	personal_score
A001_1	N001	W101	98
A001_2	N001	W102	98
A001_3	N001	W103	98
A001_4	N001	W104	98
A001_5	N001	W105	90
A002_1	N002	W101	97
A002_2	N002	W102	96
A002_3	N002	W103	95
A002_4	N002	W104	94
A002_5	N002	W105	93

Table of Calculation (Used)

id_score	id_match	final_score
N001	A001	96
N002	A002	95

Table of Score (Used)

SCRIPT

```
import tkinter as tk
from tkinter import ttk
import mysql.connector
# Connect to the database
db = mysql.connector.connect(
   host="localhost",
   user="root",
   password="",
   database="scoredb"
# Create a GUI window
window = tk.Tk()
window.title("Wushu Championship")
# Create a frame for the main menu
main_frame = ttk.Frame(window, padding="10")
main frame.pack(fill="both", expand=True)
# Create a label and button for the main menu
label = ttk.Label(main frame, text="Welcome To Wushu Championship!")
label.pack(pady=10)
button frame = ttk.Frame(main frame)
button frame.pack(pady=10)
change name button = ttk.Button(button frame, text="Change Participant's
Name", command=lambda: change name())
change name button.pack(side=tk.LEFT, padx=10)
evaluate button = ttk.Button(button frame, text="Scoring System",
command=lambda: evaluate())
evaluate button.pack(side=tk.LEFT, padx=10)
reset button = ttk.Button(button frame, text="Reset Data", command=lambda:
reset data())
reset button.pack(side=tk.LEFT, padx=10)
def reset data():
    # Reset final score di tabel score
    cursor = db.cursor()
   cursor.execute("UPDATE score SET final score = NULL")
    db.commit()
    # Hapus semua data di tabel calculation
    cursor.execute("TRUNCATE TABLE calculation")
    db.commit()
    # Tampilkan pesan konfirmasi
```

```
confirm window = tk.Toplevel(window)
   confirm window.title("Data Reset")
   confirm label = ttk.Label(confirm window, text="Process Done!")
   confirm label.pack(pady=10)
   confirm button = ttk.Button(confirm window, text="OK", command=lambda:
confirm window.destroy())
   confirm button.pack(pady=10)
def change name():
   # Create a new window for changing athlete names
   change name window = tk.Toplevel(window)
   change_name_window.title("Change Participant's Name")
   # Create a frame for the athlete list
   athlete frame = ttk.Frame(change name window, padding="10")
   athlete frame.pack(fill="both", expand=True)
   # Create a label and listbox for the athlete list
   label = ttk.Label(athlete frame, text="Participants List:")
   label.pack(pady=10)
   # Create a scrollbar for the listbox
   scrollbar = tk.Scrollbar(athlete frame)
   scrollbar.pack(side=tk.RIGHT, fill=tk.Y)
   # Create a listbox with scrollbar
   athlete listbox = tk.Listbox(
       athlete frame, width=30, yscrollcommand=scrollbar.set
   athlete listbox.pack(pady=10, fill="both", expand=True)
   # Configure the scrollbar
   scrollbar.config(command=athlete_listbox.yview)
   # Populate the athlete listbox
   cursor = db.cursor()
   cursor.execute("SELECT id athlete, athlete name FROM member")
   athletes = cursor.fetchall()
   for athlete in athletes:
        athlete listbox.insert(tk.END, f"{athlete[0]} - {athlete[1]}")
   # Create a frame for the new name entry
   new name frame = ttk.Frame(change name window, padding="10")
   new name frame.pack(fill="both", expand=True)
    # Create a label and entry for the new name
   label = ttk.Label(new name frame, text="New Name:")
   label.pack(pady=10)
   new name entry = ttk.Entry(new name frame, width=30)
   new name entry.pack(pady=10)
    # Create a button to update the athlete name
   update button = ttk.Button(
       new name frame,
       text="Update",
       command=lambda: update athlete name(athlete listbox, new name entry),
```

```
update button.pack(pady=10)
def update athlete name(athlete listbox, new name entry):
   # Get the selected athlete and new name
   selected athlete = athlete listbox.get(athlete listbox.curselection())
   new name = new name entry.get()
   # Update the athlete name in the database
   cursor = db.cursor()
   cursor.execute(
        "UPDATE member SET athlete name = %s WHERE id athlete = %s",
        (new name, selected athlete.split(" - ")[0]),
   db.commit()
    # Close the change name window
   change name window.destroy()
def evaluate():
   global evaluate window, mainmatch frame
   evaluate window = tk.Toplevel(window)
   evaluate window.title("Scoring System")
    # Create a frame for the mainmatch information
   mainmatch_frame = ttk.Frame(evaluate_window, padding="10")
   mainmatch frame.pack(fill="both", expand=True)
   # Create a label for the mainmatch information
   label = ttk.Label(mainmatch frame, text="Main Match Information:")
   label.pack(pady=10)
    # Get the first mainmatch information
   cursor = db.cursor()
   cursor.execute(
        SELECT mainmatch.id match, mainmatch.id athlete, member.athlete name,
       member.id camp, camp.camp name, mainmatch.id style, style.style name
       FROM mainmatch
       JOIN member ON mainmatch.id athlete = member.id athlete
       JOIN camp ON member.id camp = camp.id camp
       JOIN style ON mainmatch.id_style = style.id_style
       WHERE mainmatch.id match = 'A001'
   mainmatch info = cursor.fetchone()
   mainmatch label = ttk.Label(
       mainmatch frame,
        text=f"Match ID: {mainmatch info[0]}, Athlete: {mainmatch info[2]}, "
             f"Sasana: {mainmatch info[4]}, Jurus: {mainmatch info[6]}"
   mainmatch label.pack(pady=10)
    # Create a frame for the referee entries
   referee frame = ttk.Frame(evaluate window, padding="10")
   referee frame.pack(fill="both", expand=True)
    # Create labels and entries for the referees
   referee labels = []
```

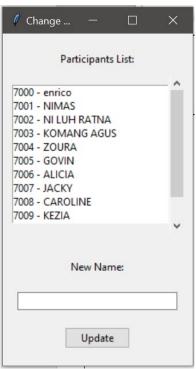
```
referee entries = []
    for i in range(5):
        label = ttk.Label(referee frame, text=f"Wasit {i+1}:")
        label.pack(pady=5)
        referee labels.append(label)
        entry = ttk.Entry(referee frame, width=30)
        entry.pack(pady=5)
        referee entries.append(entry)
    # Create a button to submit the referee scores
   submit button = ttk.Button(
       referee frame,
       text="Submit",
        command=lambda: submit_referee(mainmatch info, referee entries,
referee frame),
   submit button.pack(pady=10)
def submit referee (mainmatch info, referee entries, referee frame):
   referee ids = [entry.get() for entry in referee entries]
   referee frame.destroy()
   score_frame = ttk.Frame(evaluate_window, padding="10")
   score frame.pack(fill="both", expand=True)
   score labels = []
   score entries = []
   for i in range(5):
       label = ttk.Label(score frame, text=f"Score {i+1}:")
       label.pack(pady=5)
       score labels.append(label)
        entry = ttk.Entry(score frame, width=30)
        entry.pack(pady=5)
       score entries.append(entry)
   submit score button = ttk.Button(
        score frame,
        text="Submit",
       command=lambda: submit scores(mainmatch info, referee ids,
score entries, score frame),
   submit score button.pack(pady=10)
def submit scores (mainmatch info, referee ids, score entries, score frame):
   scores = [entry.get() for entry in score entries]
   cursor = db.cursor()
   cursor.execute("SELECT id score FROM score WHERE id match = %s",
(mainmatch info[0],))
   id score = cursor.fetchone()[0]
    for i, score in enumerate(scores):
        cursor.execute(
            "INSERT INTO calculation (id calculation, id score, id referee,
personal score) "
            "VALUES (%s, %s, %s, %s)",
```

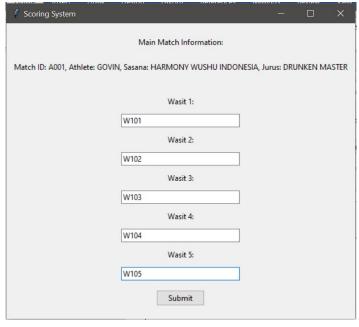
```
(f"{mainmatch info[0]} {i+1}", id score, referee ids[i], score),
   db.commit()
   average score = sum(map(float, scores)) / len(scores)
   cursor.execute(
        "UPDATE score SET final score = %s WHERE id match = %s",
        (average_score, mainmatch_info[0]),
   db.commit()
   score frame.destroy()
   global result frame
   result frame = ttk.Frame(evaluate window, padding="10")
   result frame.pack(fill="both", expand=True)
   result label = ttk.Label(result frame, text=f"Final Score:
{average_score:.2f}")
   result label.pack(pady=10)
   mainmatch label = ttk.Label(
       result frame,
       text=f"Match ID: {mainmatch_info[0]}, Athlete: {mainmatch_info[2]}, "
             f"Sasana: {mainmatch info[4]}, Jurus: {mainmatch info[6]}"
   mainmatch label.pack(pady=10)
   next match button = ttk.Button(
       result frame,
       text="Next Match",
       command=lambda: next match(mainmatch info, result frame),
   next match button.pack(pady=10)
def next match (mainmatch info, result frame):
   result frame.destroy()
   global mainmatch frame
   for widget in mainmatch frame.winfo children():
        widget.destroy()
   cursor = db.cursor()
   cursor.execute(
        SELECT mainmatch.id match, mainmatch.id athlete, member.athlete name,
       member.id camp, camp.camp name, mainmatch.id style, style.style name
       FROM mainmatch
       JOIN member ON mainmatch.id athlete = member.id athlete
        JOIN camp ON member.id camp = camp.id camp
        JOIN style ON mainmatch.id style = style.id style
       WHERE mainmatch.id match > %s
        ORDER BY mainmatch.id match LIMIT 1
        (mainmatch info[0],),
   next mainmatch info = cursor.fetchone()
```

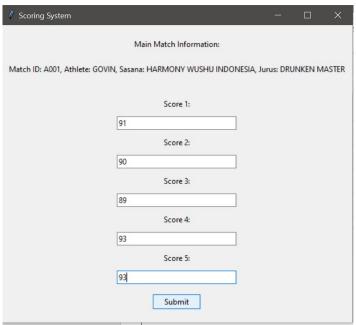
```
next mainmatch label = ttk.Label(
       mainmatch frame,
       text=f"Match ID: {next mainmatch info[0]}, Athlete:
{next mainmatch info[2]}, "
             f"Sasana: {next mainmatch info[4]}, Jurus:
{next_mainmatch info[6]}"
   next mainmatch label.pack(pady=10)
   # Create a frame for the referee entries
   referee frame = ttk.Frame(mainmatch frame, padding="10")
   referee frame.pack(fill="both", expand=True)
   # Create labels and entries for the referees
   referee labels = []
   referee entries = []
   for i in range(5):
       label = ttk.Label(referee frame, text=f"Wasit {i+1}:")
       label.pack(pady=5)
       referee labels.append(label)
       entry = ttk.Entry(referee frame, width=30)
       entry.pack(pady=5)
       referee entries.append(entry)
    # Create a button to submit the referee scores
   submit button = ttk.Button(
       referee frame,
       text="Submit",
       command=lambda: submit referee(next mainmatch info, referee entries,
referee frame),
   submit button.pack(pady=10)
# Start the GUI loop
window.mainloop()
```

DOCUMENTATION

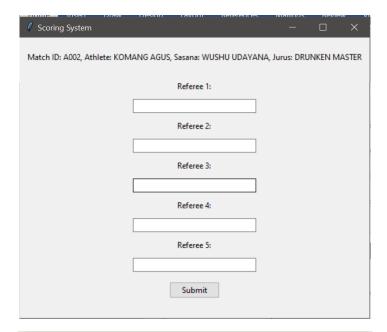


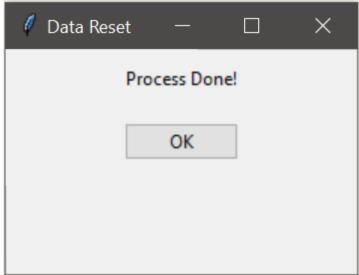












SYSTEM REQUIREMENT

Hardware:

1. Lenovo Ideapad Slim 3

Software:

- 1. XAMPP
- 2. MySQL
- 3. Intellij IDEA
- 4. Visual Studio Code
- 5. Microsoft Word

FILE PROJECT DETAILS		
Group 5 Paper.PDF	Paper File	
PPT Group 5.PDF	Presentation File	