I.B.Tech - II Sem Application Development – Python Explore

“AGE CALCULATOR”

Department of Computer Science and Engineering (IOT)

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CERTIFICATE

This is to certify that the APP. Development report entitled **"AGE CALCULATOR"** by **A. Gowreeshwari (2211CS050003), B. Navya Sri (2211CS050010), M. Deekshith (2211CS050022), Devansh Mishra (2211CS050023), L. Nishwanth (2211CS050060)** was submitted in partial fulfillment of the requirements for the completion of the course from **CSE (IOT), Mallareddy University, Hyderabad** during the academic year 2022-2023, is a bonafide record of work carried out under our guidance and supervision.

Internal Guide **(Dr.P.Vinay Bhushan)**	**App Development Coordinator** **(Mr.K.Vikram)**	**HOD**

External Examiner

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ABSTRACT

The Age Calculator App is a user-friendly application that calculates an individual's age based on their birthdate and the current date. It provides a simple interface where users input their name, birthdate, and gender. The app instantly calculates their age in years, months, and days, taking into account leap years.Additionally, the app determines the user's zodiac sign based on their birthdate, offering astrological insights. It also fetches a random historical incident related to the birthdate from Wikipedia, providing a glimpse into the past.

One of the key advantages of the age calculator application is its versatility. It caters to a wide range of users, including individuals, parents, educators, and professionals in various industries. For individuals, the application enables them to track their own age, set reminders for important age-related milestones, or calculate the age of family members and friends. Parents can utilize the application to monitor the growth and development of their children, while educators can incorporate it into lesson plans or educational activities involving age-related concepts.

In addition, the age calculator application finds practical applications in diverse professional settings. Healthcare providers can quickly determine a patient's age for medical assessments and treatments. Human resources departments can utilize the application for age verification during recruitment processes or to calculate the length of employment. Event planners and organizers can efficiently manage age-restricted events and ensure compliance with age regulations. The user interface of the age calculator application is intuitive and easy to navigate, making it accessible to users of all technological backgrounds. It also provides additional features, such as the ability to save and store age profiles, compare age differences between individuals, and share age-related information through various communication channels.

Overall, the age calculator application offers a convenient and reliable solution for age determination, enhancing efficiency and accuracy in a wide range of personal and professional scenarios.

TABLE OF CONTENTS

LIST OF FIGURES

CHAPTER 1

1.INTRODUCTION

Introducing the Age Calculator App, a user-friendly mobile application that is designed to accurately calculate your age and provide fascinating insights into your zodiac sign. With its intuitive features and user-centric design, this app offers a convenient and accessible way for users of all backgrounds to determine their age in years, months, and days.

Using the Age Calculator App is simple and effortless. Just enter your birthdate and the current date, and the app swiftly calculates your age with precision and presents it in a clear and easy-to-understand format. Whether you're curious about how many years you've been on this planet, the number of months you've celebrated, or the days you've experienced, this app provides accurate and reliable results.

But the Age Calculator App goes beyond just calculating your age. It also offers valuable insights into your zodiac sign. By providing information about your zodiac sign, such as your personality traits, characteristics, and astrological influences, the app allows you to delve into the world of astrology and gain a deeper understanding of yourself.

Discover the unique qualities that define your zodiac sign, uncover the strengths and weaknesses associated with it, and explore how astrological factors might shape your life. Whether you're an Aries with a fiery spirit, a nurturing Cancer, or a charismatic Leo, the Age Calculator App provides a wealth of knowledge about your zodiac sign to enhance your self-discovery journey.

The Age Calculator App is not only informative but also a handy tool to have on your mobile device. It offers a user-friendly interface that is easy to navigate, ensuring a seamless and enjoyable user experience. Whether you're on the go or simply curious about your age and zodiac sign, this app puts all the information you need at your fingertips.

Download the Age Calculator App today and unlock a world of information and self-discovery. Embrace the convenience, accuracy, and knowledge that this app brings to your mobile device. Whether you're a seasoned astrology enthusiast or a curious beginner, the Age Calculator App is your trusted companion exploring your age and zodiac sign in a fun and insightful way. Start your journey of self-discovery today and uncover the wonders that await you!

1.1 Summary of application

The Age Calculator App is a user-friendly and comprehensive tool that allows users to calculate their age based on their birthdate and the current date. It incorporates an algorithm that accurately calculates the age in years, months, and days. Additionally, the app provides information about the user's zodiac sign, including personality traits and characteristics associated with their birthdate. It also offers insights into astrological information, such as planet positions, and provides personalized predictions about the user's future. The app utilizes reliable data sources to ensure accurate information and engages users with intriguing content. With its intuitive interface and diverse features, the Age Calculator App offers an enjoyable and insightful user experience.

1.2 Background of application

Literature Survey:

Title: "The Birth of the West: Rome, Germany, France, and the Creation of Europe in the Tenth Century“

Author: Paul Collins

Description:

The provided code is for an Age Calculator App developed using Tkinter in Python. It allows users to calculate their age based on their name, birthdate, and the current date. The app also offers features such as displaying astrological information and providing future predictions. It uses various modules like datetime, tkinter, PIL, ephem, and requests. The GUI includes input fields for collecting user data and buttons to trigger calculations and display additional information. The Person class handles age calculation, zodiac sign determination, astrological information retrieval, ancient incidents, and future predictions. The code also includes functions for showing astrological information and future predictions in separate windows. An image is displayed at the top of the main window. Overall, the code showcases the use of Tkinter for creating an interactive Age Calculator App with added astrology and future prediction features.

Existing system:

The existing system for age calculation relies on manual calculations or basic calculators, which can be time-consuming and prone to errors. Users often must subtract their birthdate from the current date, referencing calendars or external resources for additional information. Moreover, separate platforms or resources may be needed for zodiac sign details or astrological insights.

In contrast, our age calculator app offers a convenient and integrated solution. It automates the calculation process, providing accurate age calculations instantly. Additionally, it offers features such as zodiac sign information, astrological insights, and personalized predictions within a single, user-friendly interface. By combining these features, our app eliminates the need for manual calculations, multiple sources, and external references.

The disadvantages of the existing system include the potential for miscalculations, the need for manual effort, and the lack of comprehensive information. Our app addresses these limitations by streamlining the age calculation process and providing users with a wide range of additional features. With our app, users can effortlessly determine their age, explore their zodiac sign traits, access astrological insights, and receive personalized predictions, all in one convenient place.

Proposed System

Our proposed age calculator app aims to revolutionize the age calculation process by providing a comprehensive and user-friendly platform. The app incorporates advanced algorithms to accurately calculate a person's age based on their birthdate and the current date. It offers an intuitive interface where users can input their personal details, such as name, birthdate, and gender, and instantly obtain precise age results.

Advantages and Updates:

Enhanced Accuracy: Unlike manual calculations or basic calculators, our app ensures precise age calculations, eliminating the risk of errors or inaccuracies. Users can rely on the app to obtain accurate age results instantly.

Integrated Features: Our app goes beyond simple age calculation. It offers a range of integrated features, including zodiac sign information, astrological insights, and personalized predictions. Users can explore their zodiac sign traits, discover astrological influences, and receive personalized predictions for the future, all within a single app.

Time Efficiency: The app saves users valuable time by automating the age calculation process. With just a few clicks, users can obtain their age information, eliminating the need for manual calculations or referencing external resources.

User-Friendly Interface: Our app prioritizes user experience with its intuitive and user-friendly interface. It is designed to be accessible and easy to navigate, making it suitable for users of all age groups and technical backgrounds.

Convenience and Portability: The app provides a convenient and portable solution for age calculation. Users can access the app on their smartphones or tablets, allowing them to determine their age anytime, anywhere.

Comprehensive Information: Our app offers a holistic approach to age calculation by providing additional information such as zodiac sign details and astrological insights. Users can gain a deeper understanding of themselves and their personality traits, enriching their overall experience.

By introducing these advancements, our proposed system significantly improves the age calculation process, offering enhanced accuracy, convenience, and a wealth of additional features. It caters to the modern user's needs, providing a comprehensive and enjoyable age calculation experience

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CHAPTER 2

2. REQUIREMENTS OF APPLICATION:

- The application should have a graphical user interface (GUI) using the Tkinter library.
- The GUI should include input fields for the user to enter their name, birthdate, gender, and the current date.
- The GUI should include a "Calculate Age" button that, when clicked, calculates the age of the person based on the provided information.
- The calculated age should be displayed in the GUI.
- The GUI should display the zodiac sign of the person based on their birthdate.
- The GUI should include a "Show Astrological Info" button that, when clicked, opens a new window displaying astrological information related to the person's birthdate.
- The astrological information should include the day of the week the person was born, as well as the positions of various planets.
- The GUI should include a "Get Future Prediction" button that, when clicked, opens a new window displaying a random future prediction for the person.
- The future prediction should be unique for each person and should be based on their name.
- The GUI should display an image related to the application, such as an age-related symbol or icon.
- The GUI should have an aesthetically pleasing background theme with consistent color schemes.
- The code should handle any errors or exceptions that may occur during user input or API requests.

  These requirements outline the functionality and user interface of the Age Calculator application

SYSTEM REQUIRMENTS

Software requirements:

- FRONT END : Python
- BACK END : Python or MY SQL or MS Access
- OPERATING SYSTEM : WINDOWS 10
- IDE : ANACONDA or VS code

Hardware requirements:

- PROCESSOR : Intel CORE i3
- RAM : 8GB
- HARD DISK : 250GB

CHAPTER 3

3. DESIGN

Flow chart:

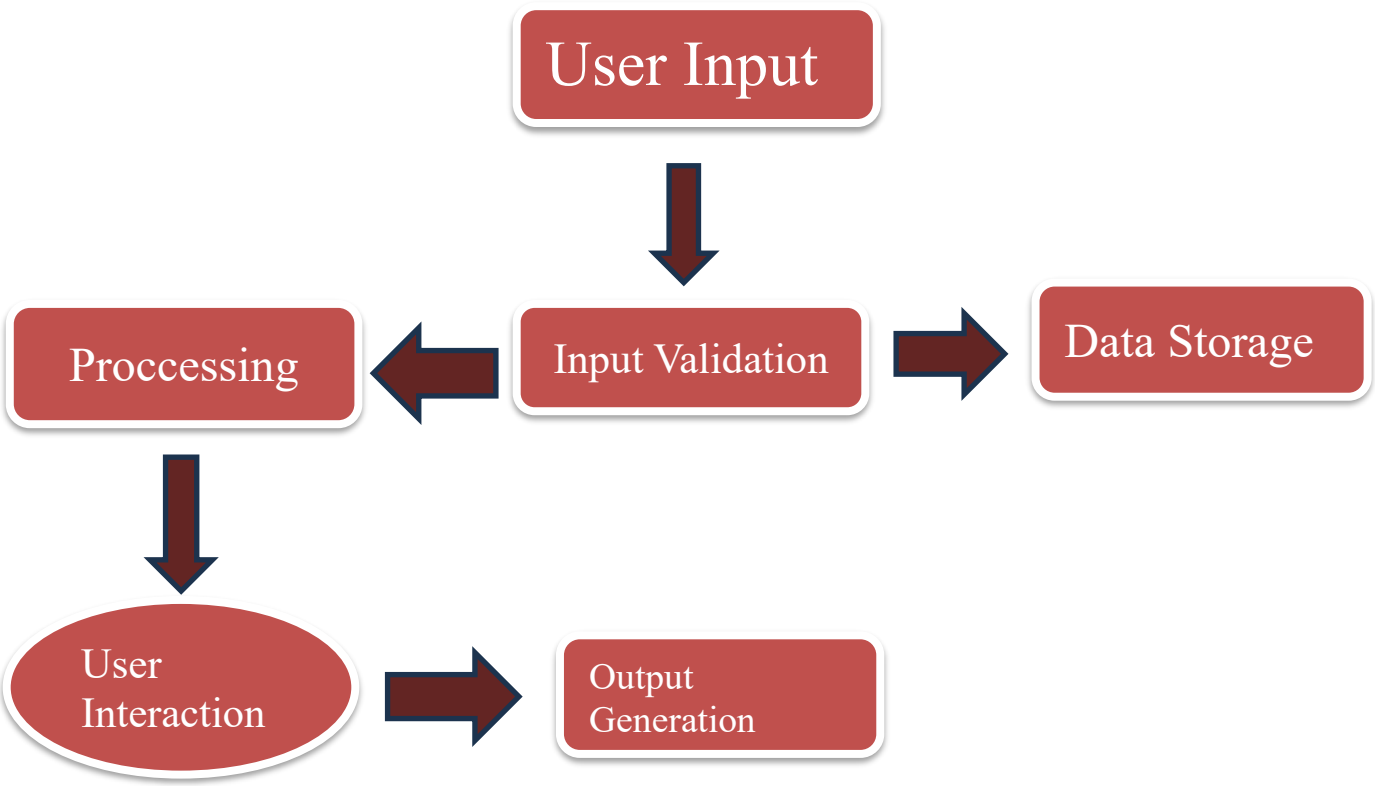

Fig 1: Validation

3.1 Screenshots

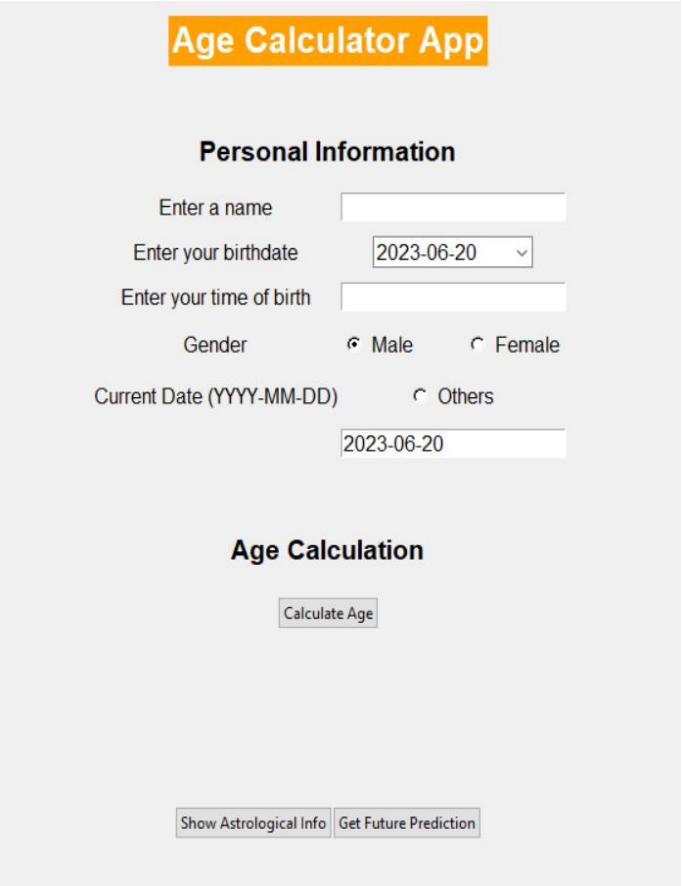

Fig 2: Main Interface

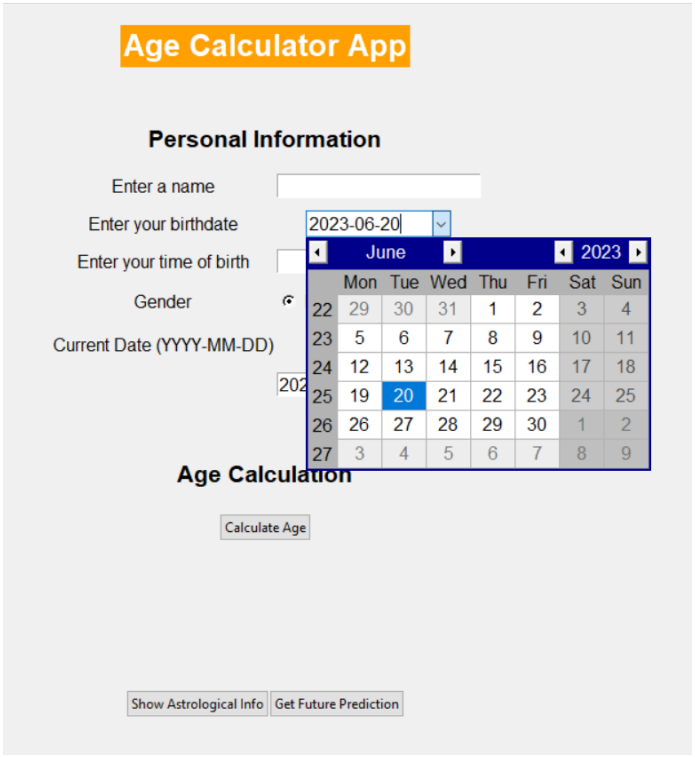

Fig3: Details

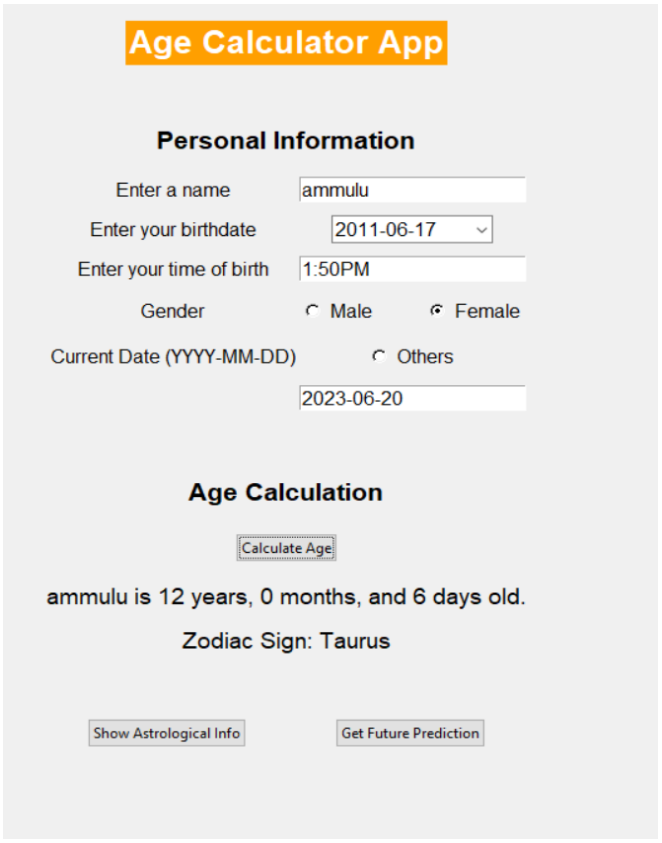

Fig4: After Details

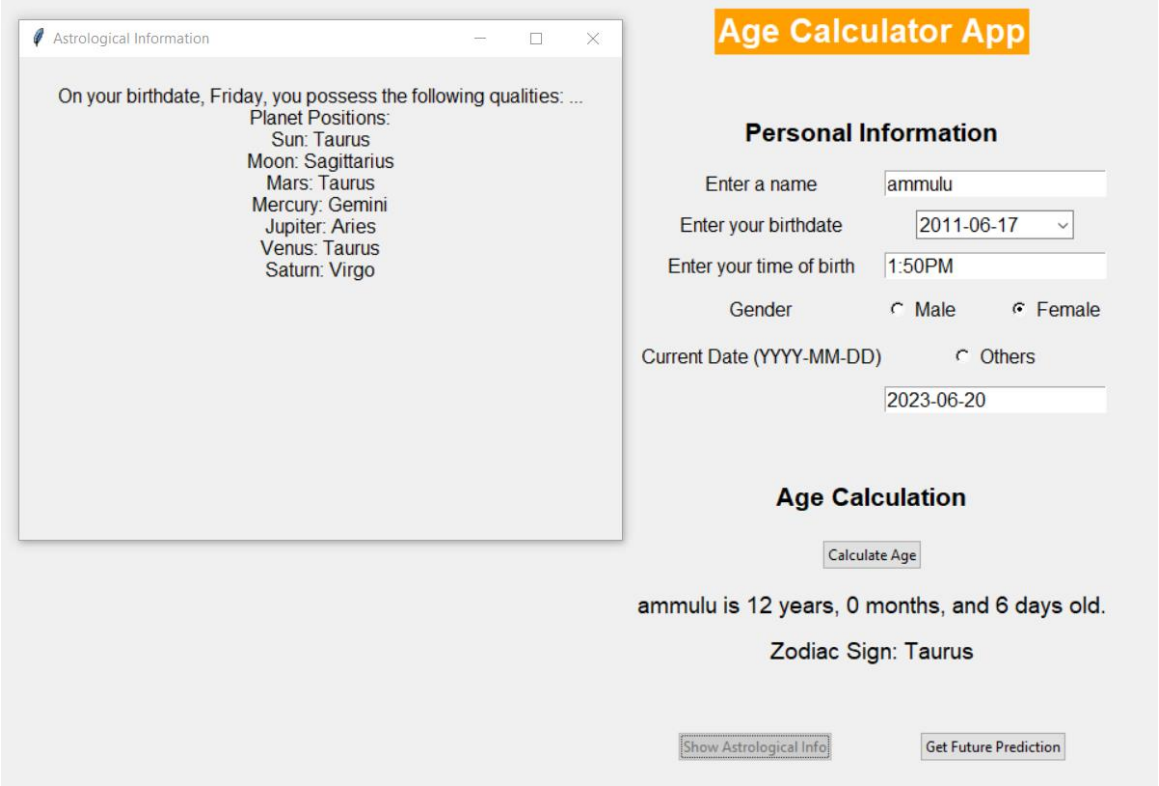

Fig5: Astrological Information

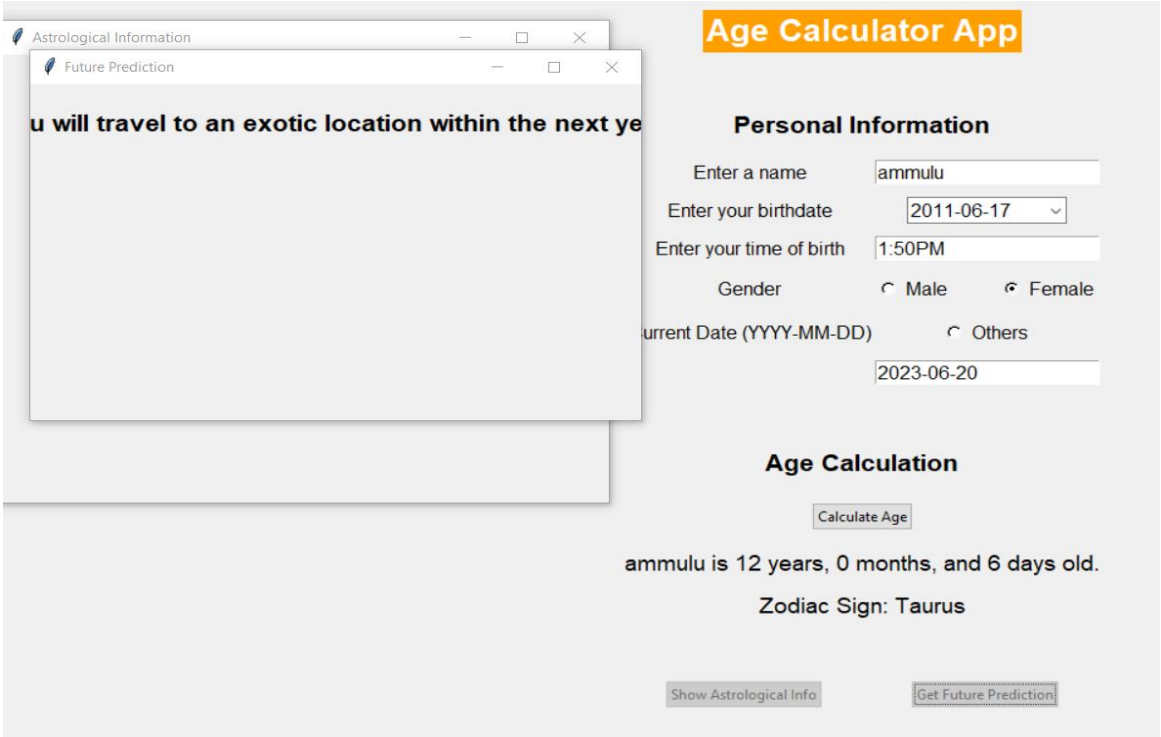

Fig6: Future Prediction

CHAPTER 4

4.CODE:

```
import datetime

import tkinter as tk

from tkinter import ttk

import ephem

import random

import requests

from tkcalendar import DateEntry


# Define colors

app_background = "#F0F0F0"

heading_background = "#FF9F00"

heading_fg = "white"


# Create the main window

window = tk.Tk()

window.geometry("620x780")

window.title("Age Calculator App")

window.configure(bg=app_background)


# Create a new window for displaying astrological information

astro_window = None
```

future_window = None

 # Create the heading label

heading_label = tk.Label(window, text="Age Calculator App", font=("Arial", 20, "bold"), bg=heading_background, fg=heading_fg)

heading_label.pack(pady=20)

 # Create the personal information section

personal_info_frame = tk.Frame(window, bg=app_background)

personal_info_frame.pack(pady=20)

personal_info_label = tk.Label(personal_info_frame, text="Personal Information", font=("Arial", 16, "bold"), bg=app_background)

personal_info_label.grid(column=0, row=0, columnspan=2, pady=10)

name_label = tk.Label(personal_info_frame, text="Enter a name", font=("Arial", 12), bg=app_background)

name_label.grid(column=0, row=1, pady=5)

birthdate_label = tk.Label(personal_info_frame, text="Enter your birthdate", font=("Arial", 12), bg=app_background)

birthdate_label.grid(column=0, row=2, pady=5)

time_of_birth_label = tk.Label(personal_info_frame, text="Enter your time of birth", font=("Arial", 12), bg=app_background)

time_of_birth_label.grid(column=0, row=3, pady=5)

```
gender_label = tk.Label(personal_info_frame, text="Gender", font=("Arial", 12), bg=app_background)

gender_label.grid(column=0, row=4, pady=5)

current_date_label = tk.Label(personal_info_frame, text="Current Date (YYYY-MM-DD)", font=("Arial", 12), bg=app_background)

current_date_label.grid(column=0, row=5, pady=5)


name_entry = tk.Entry(personal_info_frame, font=("Arial", 12))

name_entry.grid(column=1, row=1, pady=5)

birthdate_entry = DateEntry(personal_info_frame, width=12, background="darkblue", foreground="white", font=("Arial", 12), date_pattern="yyyy-mm-dd")

birthdate_entry.grid(column=1, row=2, pady=5)

time_of_birth_entry = tk.Entry(personal_info_frame, font=("Arial", 12))

time_of_birth_entry.grid(column=1, row=3, pady=5)


gender_var = tk.StringVar(value="Male")

male_radio = tk.Radiobutton(personal_info_frame, text="Male", variable=gender_var, value="Male", font=("Arial", 12), bg=app_background)

male_radio.grid(column=1, row=4, sticky="W", pady=5)

female_radio = tk.Radiobutton(personal_info_frame, text="Female", variable=gender_var, value="Female", font=("Arial", 12), bg=app_background)

female_radio.grid(column=1, row=4, sticky="E", pady=5)

others_radio = tk.Radiobutton(personal_info_frame, text="Others", variable=gender_var, value="Others", font=("Arial", 12), bg=app_background)
```

```
others_radio.grid(column=1, row=5, pady=5)


current_date_entry = tk.Entry(personal_info_frame, font=("Arial", 12))
current_date_entry.insert(tk.END, datetime.date.today().strftime("%Y-%m-%d"))
current_date_entry.grid(column=1, row=6, pady=5)
```

 # Create the function to calculate age and display information

```
class Person:
    def __init__(self, name, birthdate, time_of_birth, gender):
        self.name = name
        self.birthdate = birthdate
        self.time_of_birth = time_of_birth
        self.gender = gender

    def age(self, current_date):
        birthdate = self.birthdate
        age = current_date - birthdate
        years = age.days // 365
        months = (age.days % 365) // 30
        days = (age.days % 365) % 30
        return years, months, days
```

```
    def zodiac_sign(self):
        birthdate = ephem.Date(self.birthdate)
        sun = ephem.Sun()
        sun.compute(birthdate)
        zodiac_sign = ephem.constellation(sun)[1]
        return zodiac_sign

    def is_birthday(self, current_date):
        return (self.birthdate.month, self.birthdate.day) == (current_date.month,
current_date.day)

    def get_astrological_info(self):
        birthdate = self.birthdate
        day_of_week = birthdate.strftime("%A")
        astrological_info = f"On your birthdate, {day_of_week}, you possess the following
qualities: ...\n"
        # Add more astrological information based on the birthdate and zodiac sign
        planet_positions = self.get_planet_positions()
        astrological_info += "Planet Positions:\n"
        for planet, position in planet_positions.items():
            astrological_info += f"{planet}: {position}\n"
        return astrological_info
```

```
    def get_planet_positions(self):
        birth_datetime = datetime.datetime(
            int(self.birthdate.year), int(self.birthdate.month), int(self.birthdate.day), 12, 0, 0
        )
        planet_positions = {}
        planets = ["Sun", "Moon", "Mars", "Mercury", "Jupiter", "Venus", "Saturn"]
        for planet_name in planets:
            planet = getattr(ephem, planet_name)()
            planet.compute(birth_datetime)
            const = ephem.constellation(planet)
            planet_positions[planet_name] = const[1]
        return planet_positions


    def get_ancient_incident(self):
        birthdate = self.birthdate.strftime("%B %d")
        url =
f"https://en.wikipedia.org/api/rest_v1/page/random/summary?births={birthdate}"
        response = requests.get(url)
        if response.status_code == 200:
            data = response.json()
            title = data.get("title")
            description = data.get("extract")
```

```
            if title and description:
                return f"{title}\n\n{description}"
        return "No ancient incident found for this birthdate."

    def get_future_prediction(self):
        random.seed(self.name)  # Set the seed based on the name for consistent predictions
        predictions = [
            "You will travel to an exotic location within the next year.",
            "You will meet someone famous in the near future.",
            "A great opportunity will come your way in the coming months.",
            "You will achieve a personal milestone in the next few weeks.",
            "You will receive unexpected good news in the next month."
        ]
        return random.choice(predictions)



def calculate_age():
    name = name_entry.get()
    gender = gender_var.get()
    birthdate = datetime.datetime.strptime(birthdate_entry.get(), "%Y-%m-%d").date()
    current_date = datetime.datetime.strptime(current_date_entry.get(), "%Y-%m-
%d").date()
```

```
    person = Person(name, birthdate, "", gender)
    years, months, days = person.age(current_date)

    age_result_label.config(text=f"{name} is {years} years, {months} months, and {days} days old.")

    zodiac_sign_label.config(text=f"Zodiac Sign: {person.zodiac_sign()}")

    if person.is_birthday(current_date):
        birthday_label.config(text="Happy birthday!")
    else:
        birthday_label.config(text="")

    if astro_window is not None:
        astro_window.destroy()

    if future_window is not None:
        future_window.destroy()

    astro_button.config(state="normal")
    future_button.config(state="normal")
```

```
def show_astro_info():
    name = name_entry.get()
    gender = gender_var.get()
    birthdate = datetime.datetime.strptime(birthdate_entry.get(), "%Y-%m-%d").date()

    person = Person(name, birthdate, "", gender)
    astro_info = person.get_astrological_info()

    global astro_window
    astro_window = tk.Toplevel(window)
    astro_window.geometry("500x400")
    astro_window.title("Astrological Information")

    astro_info_label = tk.Label(astro_window, text=astro_info, font=("Arial", 12),
bg=app_background)
    astro_info_label.pack(pady=20)

    astro_button.config(state="disabled")
```

```
def show_future_prediction():
    name = name_entry.get()
    gender = gender_var.get()
    birthdate = datetime.datetime.strptime(birthdate_entry.get(), "%Y-%m-%d").date()

    person = Person(name, birthdate, "", gender)
    prediction = person.get_future_prediction()

    global future_window
    future_window = tk.Toplevel(window)
    future_window.geometry("500x300")
    future_window.title("Future Prediction")

    prediction_label = tk.Label(future_window, text=prediction, font=("Arial", 16, "bold"), bg=app_background)
    prediction_label.pack(pady=20)

    future_button.config(state="disabled")
```

 # Create the age calculation section

```
age_calc_frame = tk.Frame(window, bg=app_background)
```

```
age_calc_frame.pack(pady=20)


age_calc_label = tk.Label(age_calc_frame, text="Age Calculation", font=("Arial", 16,
"bold"), bg=app_background)

age_calc_label.grid(column=0, row=0, columnspan=2, pady=10)


calculate_button = ttk.Button(age_calc_frame, text="Calculate Age",
command=calculate_age)

calculate_button.grid(column=0, row=1, columnspan=2, pady=10)


age_result_label = tk.Label(age_calc_frame, text="", font=("Arial", 14),
bg=app_background)

age_result_label.grid(column=0, row=2, columnspan=2, pady=5)


zodiac_sign_label = tk.Label(age_calc_frame, text="", font=("Arial", 14),
bg=app_background)

zodiac_sign_label.grid(column=0, row=3, columnspan=2, pady=5)


birthday_label = tk.Label(age_calc_frame, text="", font=("Arial", 14),
bg=app_background)

birthday_label.grid(column=0, row=4, columnspan=2, pady=5)


# Create the buttons for displaying astrological information and future prediction

astro_button = ttk.Button(age_calc_frame, text="Show Astrological Info",
```

```
command=show_astro_info)

astro_button.grid(column=0, row=5, pady=10)



future_button = ttk.Button(age_calc_frame, text="Get Future Prediction",
command=show_future_prediction)

future_button.grid(column=1, row=5, pady=10)



# Run the main window loop

window.mainloop()
```

4.1 Handling Errors

Test Cases:

Test S.No.	Input	Expected Behavior	Observed behavior	Status P = Passed F = Failed
1	Input the personal information as Correct information details.	Your exact age with zodiac sign should be displayed.	-do-	P
2	Input the personal information as Wrong information details.	Error message should be displayed	-do-	P
3	Input the personal information as Wrong information details.	Error message not displayed	-do-	F
4	Comments by user	Comments should be input to system	-do-	P
5	Reviews by user	Given reviews are stored in system	-do-	F
6	Rating by User	Ratings will be updated to mobile apps	-do-	F

CHAPTER 5

5. CONCLUSION:

The Age Calculator App is a user-friendly application that allows individuals to calculate their age based on their birthdate and current date. It provides accurate results in terms of years, months, and days elapsed since birth. The app also determines the user's zodiac sign and offers additional features like displaying astrological information and generating future predictions. With a visually appealing interface and intuitive design, the app ensures a seamless user experience. It integrates external libraries to enhance accuracy and information retrieval. Overall, the Age Calculator App is a useful tool for individuals interested in understanding their age, zodiac sign, and astrological traits.

The Age Calculator App is an incredibly user-friendly application designed to provide individuals with a convenient way to calculate their age based on their birthdate and the current date. By simply inputting these two dates into the app, users can obtain accurate results in terms of the number of years, months, and days that have elapsed since their birth. This information can be particularly helpful for people who want to keep track of their age or celebrate milestones such as birthdays or anniversaries.

In addition to calculating age, the app offers a range of other features that further enhance its usefulness. One such feature is the ability to determine the user's zodiac sign based on their birthdate. This adds an element of fun and personalization to the app, allowing users to discover and explore the characteristics associated with their astrological sign. By providing insights into zodiac signs, the app caters to individuals who have an interest in astrology and enjoy learning about the different traits and qualities associated with each sign.

The Age Calculator App goes beyond basic age calculation and zodiac sign determination by providing users with additional astrological information. It serves as a comprehensive resource by offering detailed explanations and descriptions of each zodiac sign, including personality traits, compatibility with other signs, and general astrological insights. This feature enables users to delve deeper into the realm of astrology and gain a better understanding of themselves and those around them.

In conclusion, the Age Calculator App offers a range of features that make it a valuable tool for individuals interested in understanding their age, zodiac sign, and astrological traits. Through its accurate age calculations, zodiac sign determination, and detailed astrological information, the app caters to the curiosity and personalization needs of its users. By integrating external libraries, the app ensures accuracy and reliability, while

its visually appealing interface and intuitive design enhance the overall user experience. Whether for personal use or casual exploration of astrology, the Age Calculator App is a versatile and useful tool that provides individuals with valuable insights into their age and astrological identity.

CHAPTER 6

6. FUTURE SCOPE:

Additional Date Formats: Expand the app's capability to accept and calculate age based on various date formats, such as DD/MM/YYYY or MM/DD/YYYY, to accommodate users from different regions.

Age Conversion: Integrate a feature that allows users to convert their age into different units, such as weeks, hours, or minutes, providing a more comprehensive understanding of their age.

Language Localization: Implement language localization support to make the app accessible to a wider audience by offering translations in different languages.

Age Comparison: Enable users to compare their age with famous personalities, historical figures, or statistical averages based on their birthdate and gender, providing interesting insights and comparisons.

Social Media Integration: Integrate the app with popular social media platforms, allowing users to easily share their age, zodiac sign, or interesting astrological information with their friends and followers.

User Profiles: Implement a user profile feature that allows individuals to save their personal information, such as name, birthdate, and gender, for quick access convenient age calculations.

Enhanced Astrological Information: Expand the astrological information section by incorporating more detailed insights, including compatibility analysis, personality traits, and predictions based on the user's birthdate and zodiac sign.

These future enhancements can add value to the age calculator app, provide a better user experience, and attract a larger user base by offering additional features and functionalities.