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**Bird-Dogey User Guide**

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**Project Repository:** [GitHub - SDEV140 Final Project](https://github.com/mclendening72/SDEV140-FINAL-PROJECT)

**Introduction**

Bird-Dogey is a Python-based application developed as a final project for the Ivy Tech Community College SDEV140 course. It was created by Mike Clendening to help golfers inventory their scores from various golf courses in Bloomington, Indiana. This guide will provide instructions on how to install, use, and troubleshoot the program effectively.

**Fun Fact: What is a Bird-Dogey?**

A "Birddogey" occurs when a golfer reaches the green in regulation but takes three putts to complete the hole, resulting in a bogey instead of a birdie.

**Installation**

**Prerequisites**

**Windows:**

1. **Install Python** (if not already installed):
   * Download it from [python.org](https://www.python.org/downloads/).
   * During installation, check "Add Python to PATH" to make running scripts easier.
2. **Run the Python script via Command Prompt:**
   * Open Command Prompt (Win + R, type cmd, and press Enter).
   * Navigate to the folder where your .py file is located using cd (change directory). Example:

sh

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cd C:\Users\YourUsername\Documents

* + Run the Python file:

sh

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python script.py

*(Replace script.py with the actual filename.)*

1. **Run by double-clicking (if applicable):**
   * If your script has a graphical interface (like Tkinter) or does not require user input from the terminal, double-clicking the .py file should work.
   * If the script runs and closes too fast, add this line at the end:

python

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input("Press Enter to exit...")

**Mac & Linux:**

1. **Open the terminal:**
   * On Mac: Press Command + Space, type Terminal, and hit **Enter**.
   * On Linux: Press Ctrl + Alt + T.
2. **Navigate to the script’s folder:**

sh

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cd /path/to/your/script

*(Replace /path/to/your/script with the actual folder path.)*

1. **Run the script:**

sh

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python3 script.py

*(Use python script.py if python3 isn't required on your system.)*

1. **Make the script executable (Optional for Linux/Mac):**

sh

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chmod +x script.py

./script.py

**Getting Started**

1. Download the program from [GitHub](https://github.com/mclendening72/SDEV140-FINAL-PROJECT).
2. Download the complete folder, which contains the necessary .xlsx file and images.
3. Open a terminal and navigate to the directory where the program is downloaded.
4. Run the following command to start the program: **python Birddogey.py**

**Features**

**Golf Score Data Entry**

* Users can enter golfer details, including:
  + First name
  + Last name
  + Player ID
  + Course played
  + Score
  + Par for the course
* All data is stored in an Excel (xlsx) file for record-keeping.

**Search Functionality**

* Users can search for golfers by entering their Player ID.
* The program retrieves and displays stored golfer information from the Excel file.

**Data Validation**

* Ensures Player ID is a valid 4-digit integer (0001-9999).
* Validates first name, last name, score (must be between 0 and 200), and course selection.

**Automatic Excel File Creation**

* If data.xlsx does not exist, the program creates it and adds header columns.

**User Interface**

* Built using **Tkinter** for a user-friendly experience.
* Features a **splash screen** that auto-closes after 6 seconds.
* Includes a **main window** for data entry and a **search window** for retrieving records.

**Dynamic Results Display**

* The program calculates whether the golfer is under, over, or even with par and displays a message:
  + "You shot even par today!"
  + "You shot 3 under par today!"

**Multiple Course Selection**

* Users can select from a list of available golf courses when entering a score.

**Search Results Display**

* Results are formatted and displayed with details such as:
  + Player ID
  + First and last name
  + Course played
  + Score
  + Par

**Tooltip Assistance**

* Tooltips provide additional information for buttons and input fields.

**Navigation & Exit**

* Includes buttons for navigation:
  + **Exit:** Closes the application.
  + **Search:** Opens the search window.
  + **Return to Main Window:** From the search screen.

**File Handling**

* Saves data to an Excel file, ensuring records persist across sessions.

**Customizable UI**

* Uses custom images for buttons and backgrounds.
* Resizable interface that centers on any screen size.

**Error Handling**

* Ensures required fields are properly filled before saving.
* Displays error messages for invalid input.

**Support for Multiple Users**

* Different users can enter their data using a unique Player ID.

**Troubleshooting**

Bird-Dogey is a work in progress. If you encounter any issues, please email **mclendening@ivytech.edu**, and I will resolve them as soon as possible.

**Support**

For further assistance, contact: **mclendening@ivytech.edu**