Football Match Prediction User Manual

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Group GitHub Link:

https://github.com/RecepSamiOzdemir/software-engineeringproject/tree/main/Football%20Match%20Result%20Prediction

Football Match Prediction GitHub Link

https://github.com/gulssumm/football prediction

Note: This user manual reported by Zeynep Sude Altın, Gülsüm Çetinözlü (Software developers, data engineers)

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1 Introduction

- Brief overview of the project
 - This project collects football data from specific sites and filters it based on user preferences. It supports fetching real-time data for a specific year or accessing data from the database, with filters for data ranges and team names.
- Objectives and goals
 - o Provide a tool to fetch real-time football data, apply filters.
- Scope of the project
 - Focuses on data collection, cleaning, visualization, and saving football matches results.

2 System Requirements

- Software Requirements
 - o Python 3.7+
 - o IDE
 - Following libraries

```
selenium==4.11.2

pandas==1.3.5

python-dateutil==2.9.0

webdriver-manager==4.0.2
```

3 Installation Guide

- Prerequisites: Ensure Python and required libraries are installed
- Download: Visit the GitHub Repository and download the project.

4 User Interface Overview

- Login Screen:
 - o Enter the following information to login.

Username: admin; Password: 123

• Main Screen:

o Filters: Search by league, team name, initial year, and end year.

 Data Table: Displays fetched and filtered data. The general appearance of the interface and data table is as in the figure below.



o Let's get the League One data for years between 2000-2001 from database:



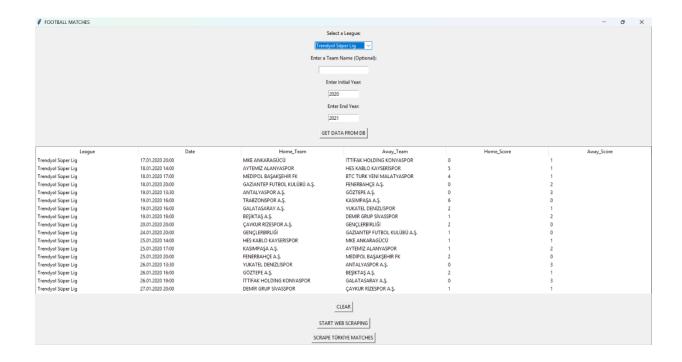
o Now, Let's fetch data for League One for years between 2021-2022.



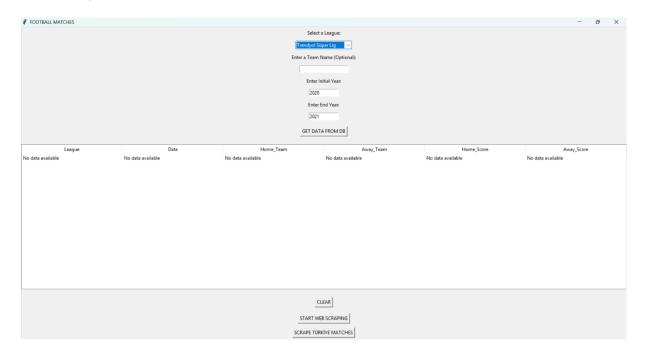
o Now, Let's filter according to team name.



o Let's fetch Türkiye's one of the leagues this time.



o If you click the "Clear" button it will clean all data in interface.



5 Features and Functionalities

- Data Collection: Scrapes details like League name, team name, date.
- **Data Cleaning:** Removes previous data from interface.
- Data Saving: Save fetched data in csv form.

6 Usage Instructions

- Run "login screen.py" file in the project folder.
- Use "Scrape Türkiye Matches" button to fetch Türkiye matches data, and use "Start Web Scraping" for the rest of the leagues.
- Use "Get Data From DB" button to have data from database.

7 Troubleshooting and Maintenance

- Common Issues:
 - o Missing libraries: Ensure dependencies are installed. Check "requirements.txt" in the project folder.
 - Fetching or getting data from Trendyol 1. League 2000-2001: Trendyol 1. League started in 2001 so there is no data.
 - o No such table: User error: Run "merged_db_creation.py" to create merge.db again and run "login screen.py".
 - o If you get URL error for path: Change it to your local path.

8 References

- https://stackoverflow.com/questions/75060132/error-from-selenium-attributeerror-service-object-has-no-attribute-process
- https://www.geeksforgeeks.org/python-web-scraping-tutorial/
- https://www.scrapingbee.com/webscraping-questions/selenium/how-to-find-elementsby-xpath-selenium/