System Requirements Specification Index

For

Numpy and Pandas

Version 1.0

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Problem Statement : Exploratory Data analysis for IPL .

Description : Use relevant methods of Numpy and Pandas to perform specified activities which are given in the instructions.

The Template contains the following folder structure.

```
Numpy_Pandas  |
                |--matches.py
                |--matches .csv
                |--test  (contains unit test case files for the solution)
```

Matches.py:

Implement all the methods as specified in the following instructions.

1. How many matches were played in total?
2. Which team won the match with the maximum margin of victory in terms of runs?
3. Which team won the match with the maximum margin of victory in terms of wickets?
4. In which season were the most matches played?
5. Who is the player with the most "Player of the Match" awards, and how many did they receive?
6. How many matches ended in a tie?
7. Which venue hosted the most matches?
8. Which team won the IPL in 2010?
9. What is the win percentage for teams batting second?
10. Who is the second most frequent recipient of the "Player of the Match" award?

Execution Steps to Follow:

1. All actions like build, compile, running application, running test cases will be through Command Terminal.
2. To open the command terminal the test takers, need to go to Application menu (Three horizontal lines at left top) -> Terminal -> New Terminal
3. This editor Auto Saves the code
4. If you want to exit(logout) and continue the coding later anytime (using Save & Exit option on Assessment Landing Page) then you need to use CTRL+Shift+B-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository. Else the code will not be available in the next login.
5. These are time bound assessments the timer would stop if you logout and while logging in back using the same credentials the timer would resume from the same time it was stopped from the previous logout.
6. To setup environment:

   pip install requests pandas numpy

7. To launch application:

   python3 matches.py

8. To run Test cases:
   python3 -m unittest

9. Before Final Submission also, you need to use CTRL+Shift+B-command compulsorily on code IDE. This will push or save the updated contents in the internal git/repository for code quality analysis graph.

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