**System Request Summary**

**Project Sponsor:** -

**Business Need:** This project has been initiated for two goals:

* To reach a significant amount of game players by taking advantage of defiency about wrestling in game industry.
* To introduce simulation gamers an old and fundamental sport, wrestling

**Business Requirements:**

* Provide player an opportunity to manage a wretling team
* Include in-game features such as transfer, training, managing team
* Include save/load game option
* Create accurate match results by using player attributes
* Develop the project as open source and let other programmers contribute or modify

**Business Value:**

This project is non-profit and expects no income, but any donates are acceptable.

**Special Issues or Constraints:**

* The game will consist of accurate wrestling datas and informations. This issue will be handled by our sofware analyst.
* Real team and player informations will not be used to avoid reconciliation issues.

**Main Activities of the Project**

1. Planning
2. Content researching
3. Analysis
4. System design
5. Coding
6. Testing
7. Delivery

**Required Effort and Duration For Completion**

**Parameters:**

1. **Inputs**

* Menu selection
* Saved game file
* Team selection
* Training preference
* Transfer proposal

1. **Outputs**

* Fixture
* Team/Player Standings
* Match highlights
* Transfer list
* Loading saved game
* Team line-up

1. **Queries**

* Get match dates for fixture
* Calculate standings by using match results
* Generate match results by using wrestler attributes
* Check transfer rules
* Fetch existing game datas
* Update wrestler attribute after training

1. **Files**

* Default database

1. **External Interface**

* *tgf.gov.tr* external data bank (for reference)

**Unadjusted Function Point Calculation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Low** | **Medium** | **High** | **Total** |
| **Input (6)** | 1\*3 | 3\*4 | 2\*6 | 27 |
| **Output (6)** | 2\*4 | 2\*5 | 2\*7 | 32 |
| **Query (6)** | 1\*3 | 1\*4 | 4\*6 | 31 |
| **File (1)** | 0\*7 | 0\*10 | 1\*15 | 15 |
| **Ext. Int. (0)** | 0\*5 | 0\*7 | 1\*10 | 10 |
|  |  |  |  | **115** |

**System Characteristics**

1. Data Communications: 3

2. Distributed functions: 0

3. Performance: 0

4. Heavy used configuration: 0

5. Transaction rate: 0

6. Online data entry: 0

7. End user efficiency: 2

8. Online update: 0

9. Complex processing: 0

10. Reusability: 2

11. Installation ease: 0

12. Operational ease: 1

13. Multiple sites: 0

14. Facilitate change: 0

15. Extensibility: 1

16. Backup & Recovery: 1

**Total:** 10

**Adjusting the Functions Points**

Total Processing Complexity = 10

Adjusted process = 0.65 + (0.01\*10) = 0.75

Total adjusted function point = 0.75\*115 = 86.25

Function point to lines of codes for *Python =* 67

Lines of codes = 86.25\*67 = 5778.75

**Required Effort**

Effort in Person Months = 1.4\*5.77875 = 8.09025 Person Months

Schedule Time (Months) = 3.0 \* = 6.02