SE 216 – SOFTWARE PROJECT MANAGEMENT
SOFTWARE MEASUREMENTS DOCUMENT

PROJECT NAME: TRUE POSTURE

GROUP NUMBER and MEMBERS: Section 2 Group 8

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Questions to identify measurements:

1. How much space does the application take?
2. How much code has been reused?
3. How stable does cloud computing work?
4. How many times has the code been modified or deleted?
5. How many hours are spent for each sprint while developing this project?
6. How smoothly does the application work?
7. Is the application easy to use?
8. How many people have worked on this project?
9. What was the total cost of the project?
10. How accurately does the application detect the user's posture?
11. What is the size of the project's database?
12. How high is the source utilization during peak usage?

Identified measurements:

1.1 The total space requirement on the installed device
1.2 Total file size that will be distributed to the users
2.1 Total hours saved from code reuse
2.2 Total reused code percentage
2.3 Number of algorithms written from reuse codes
3.1 The rate of successful connection
3.2 Maximum number of people who can connect at the same time
4.1 The total number of code revision
4.2 The total number of problematic or faulty codes
4.3 Total number of redefined requests/requirements
5.1 Number of hours spent on each sprint
5.2 The difference between estimated time and real spent time for a sprint
5.3 The average sprint time of common tasks for projects
6.1 The average response time for the user's operation
6.2 The average opening time of the app
6.3 The probability of a task failing
7.1 The average click number by the users for a specific task
7.2 User feedback from all ages
8.1 The total effort for this project

8.2 Documentation of staff members
8.3 Distribution of work among the staff members
9.1 Total cost of all necessary services
9.2 Amount of people involved in the project
10.1 Number of errors found detecting movement while testing
10.2 The comparison of the application's accuracy by user and trainer feedback
10.3 The comparison between measured calculation and reference calculation
11.1 Total data size of the project
11.2 The rate of data growth over time
11.3 The rate of the used portion of the database
12.1 Usage rate during various hours of the day
12.2 Data stream density during most active hours
12.3 The average peak usage of the application

Measurement storage and collection:

1.What - Total space
When - After any updates to the application
Format -Storage data
How -By calculating source file size

2.What - Code reevaluation
When - After implementing an already existing code
Format - Percentage data
How - By comparing original and reused code

3.What - Cloud computing stability
When - After establishing the cloud system to the application
Format - Response data
How - Evaluating the response of the system by looking at different workload

4.What - Evaluating code evolution
When - After any major changes to the code
Format - Comparison data
How - By keeping documentation of the established code and parts that are modified or deleted

5.What - Total time spent on the project
When - After each sprint
Format - Real number data
How - By keeping track of each sprint's life process

6.What - Usability of the product
When - After application testing
Format - Documentation data
How - By testing the time it takes for the application to perform a successful task

7.What - Accessibility of the product
When - After user interfaces have been designed
Format - Feedback analysis data
How - By taking feedback from testers and implementing clear and easy-to-use interfaces

8.What - Total number of people involved in the project
When - After creating the team
Format - Staff member data
How - Assigning each person to a task and summing the number

9.What - Total cost of the project
When - After publishing the application
Format - Total amount of money data
How - By keeping the data of every expense

10.What - Posture measurement correctness
When - After creating the image processing algorithms
Format - Correctness rate data
How - By keeping the statistics of correctness comparisons

11.What - Database size
When - After creating the image processing algorithms
Format - Database size number data
How - By measuring the size of the data

12.What - Resource usage
When - After the application's publish
Format - Source usage data
How - By tracking the source usage from devices

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Measurement Type	Description	Example Measurements
Cost	Quantifying the financial resources required for project tasks and overall project execution.	Total cost of all necessary services.
Effort / Productivity	The amount of human resources, time, and work required to complete a project and measure team productivity, efficiency, and work performance.	The difference between estimated time and real spent time for a sprint.
Performance	Measuring project performance against performance targets.	The average peak usage of the application.
Defect	Tracks defects, errors, bugs, or issues identified during development, testing, and deployment phases.	The comparison between measured calculation and reference calculation.
Reuse	Measuring where the code was written by reused codes and how effective the written code is.	Total hours saved from code reuse.
Number of Changes	Monitoring the number of changes and measuring how stable the development phase is.	Total number of redefined requests/requirements.
Space	Measurement of how big the product is.	Total file size that will be distributed to the users.

Project GitHub Account

https://github.com/SE216-8/TruePosture