SE 216 – SOFTWARE PROJECT MANAGEMENT
SOFTWARE MEASUREMENTS DOCUMENT

PROJECT NAME: CodeCraft
GROUP NUMBER and MEMBERS:
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Questions to identify measurements:
1)How much effort did this project require? 2)How many hours are spent for each sprint while developing this project? 3)How much space does the application take? 4)How much of the code has been reused? 5)Is the application easy to use? 6)How stable does cloud computing work? 7)How much effort went to testing 8)How much documentation was needed? 9)What was the total cost of the project?
Identified measurements:
1.1 Total effort for the project. 2.1 Number of hours spent on each sprint. 3.1 Total space requirement on the installed device. 3.2 Total file size distributed to users. 4.1 Total hours saved from code reuse. 4.2 Total reused code percentage. 5.1 Average click number by users for a specific task. 5.2 User feedback from all age groups. 6.1 Rate of successful connection. 6.2 Maximum number of simultaneous connections. 7.1 Total effort spent on testing. 7.2 Number of errors found during testing. 8.1 Documentation effort by staff members. 9.1 Total cost of all necessary services. 9.2 Number of people involved in the project.
Measurement storage and collection:

1)Effort Required:
-What: Total effort for the project.
-When: After project completion**.**
-Format: Person-hours or person-days**.**
-How: Calculating the total amount of work that the team members have done for the project.

2)Development Time per Sprint:
-What: Hours spent per sprint.
-When: At the end of each sprint**.**
-Format: Hours**.**
-How: Tracking time spent on sprint tasks by team members using project management tools.

3)Application Space:
-What: Total space occupied by the application**.**
-When: After any updates to the application.
-Format: Megabytes (MB) or gigabytes (GB) or Terabytes(TB) .
-How: Calculating the source file size or size of the distributed application.

4)Code Reuse:
-What: Percentage of reused code.
-When: After implementing already existing code.
Format: Percentage.
How: Comparing original and reused code to calculate the percentage of reused code.

5)Usability Assessment:
-What: Evaluation of application usability.
-When: After application testing.
-Format: Qualitative assessment (e.g., user feedback, usability testing results).
-How: Collecting user feedback on the usability of the program and carrying out usability testing.

6)Cloud Computing Stability:
-What: Stability of the cloud system.
-When: After establishing the cloud system for the application.
-Format: Response data.
-How: Evaluating system responsiveness under various workload conditions in order to assess stability.

7)Testing Effort:
-What: Effort spent on testing.
-When: Throughout the project development phase.
-Format: Person-hours or person-days.
-How: Tracking time spent on testing tasks, including test case creation, execution, and debugging.

8)Documentation Requirement:
-What: Amount of documentation needed.
-When: Throughout the project lifecycle.
-Format: Number of documents or pages.
-How: Assessing the documentation needs and creating necessary documents such as design documents, user manuals, etc.
9)Total Project Cost:
-What: Total cost of the project.
-When: After project completion.
-Format: Currency (USD).
-How: Summing up all project expenses including salaries, infrastructure costs, software licenses, etc.

Measurement Type	Description	Example Measurements
Effort	Quantifying the human resources required for the project	-Total person-hours or person-days spent on project tasks
Sprint Hours	Tracking the time spent on each sprint	-The difference between estimated time and real spent time for a sprint.
Application Space	Measurement of how big the product is	-Total file size of the application or its components
Code Reuse	Evaluation of code reuse and effectiveness	-Percentage of code reused, -Total hours saved from code reuse
Usability	Assessment of application's ease of use	-User satisfaction scores -Usability testing results
Cloud Stability	Evaluation of cloud system's stability and reliability	-Maximum number of concurrent users -Rate of successful connections
Testing Effort	Measurement of effort invested in testing activities	-Total person-hours spent on testing tasks
Documentation	Quantifying the amount of documentation needed	-Number of documents or pages created
Cost	Quantifying the financial resources required for the project	-Total cost of all necessary services