**PROJECT NAME: VitalBand**

**GROUP NUMBER and MEMBERS: Group 3 / Utkuhan ERGENE, Orhan Ege ÖZŞEN, Ecem DOĞANER, Enes YAVUZ**

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| Questions to identify measurements: |
| -At which stages will we evaluate the progress of the project and its success criteria?  -What risks might we encounter and how do we plan to manage them?  ­-How will the progress and performance of the project be measured and monitored?  -Are VitalBand's sensors and the application's software compatible?  -How accurate is the information received in VitalBand's test results?  -How continuously are the algorithms used by VitalBand to accurately process and analyze health data?  -Does the application have factors that could create security leaks in tests?  ­-Does the database configuration work properly with the code?  -How much time is spent on debugging?  -How long does it take for VitalBand to deliver the necessary notifications? |
| Identified measurements: |
| -Total number of hours spent testing and evaluating for reliability.  -Number of errors found each testing progress.  -Repeatability and consistency of test results are evaluated by testing under different test conditions.  -Using data breach response time to detect and respond to a data breach involving health data.  -Total number of hours spent to solving the errors which is encountered in the testing phase.  -Total number of people work on storage and security.  -Project progress is evaluated by measuring how much progress has been made at each stage.  -Using data encryption rate to store the health data in encryption format.  -It is tested to correctly transfer the value received from the sensors to the application. |
| Measurement storage and collection: |
| When- At every development step  Format- Real number data  What- Encountered errors  How- The features developed are tested before release to ensure that it meets the expectations |

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| Measurement  Type | Description | Example  Measurements |
| Management data | **Project length measurement tracks the total time elapsed from the beginning to the completion of a software project, aiding in monitoring progress and optimizing planning processes.** | **Project Length** |
| Management data | **Cost measurement tracks the financial resources allocated and expended throughout the duration of a project, facilitating budget management, expense tracking, and ensuring adherence to financial objectives.** | **Cost** |
| Effort distribution | **Hours spent on major activities measurement tracks the amount of time allocated to significant tasks or phases within a project, aiding in time management, resource allocation, and assessing project progress and efficiency.** | **Hours Spent on Major Activities** |
| Change data | **Requirements changes involve altering specifications or criteria for a product or system in response to evolving stakeholder needs, feedback, or project priorities.** | **Requirements Changes** |
| Product size management | **The number of components measurement simply counts the total software or hardware elements within the VitalBand project, aiding in understanding its structural complexity and resource management.** | **Number of Components** |
| Effort distribution | **Hours per week measurement tracks weekly work hours dedicated to the project, aiding in resource management and productivity assessment** | **Hourse Spend each Week** |
| Change data | **Defects measurement quantifies identified issues or bugs in the software, aiding in quality assessment and prioritization of fixes** | **Defects** |