SE 216 – SOFTWARE PROJECT MANAGEMENT
SOFTWARE MEASUREMENTS DOCUMENT

PROJECT NAME: Food Bridge

GROUP NUMBER and MEMBERS:Hakkı Nasiboğlu, Süeda Aktürk, Öykü İrem Oplazgil, Ece Günal, Atalay Doğan, Mehmet Tatlı

Questions to identify measurements:

1)How much effort went into testing?
2)How many of the predetermined requirements were we able to fulfill?
3)What did the team produce?
4)What technologies and tools were used in the development of the project, and why were these technologies chosen?
5)How good is the product?
6)What was the project's budget, and how much of the budget was utilized?
7)Did the project adhere to its schedule?
8)How many of the required meetings with stakeholders were carried out?

Identified measurements:

Effort on Testing: Approximately 20 to 40 hours of testing were run on the code part of the project to make sure it runs without failure and with smoothness.

Fulfillment of Requirements: 70% of the functional and non-functional requirements in the project were fulfilled as planned.

Product of the Project: An app with the purpose of both distributing food to those in need and saving food soon to expire at the same time.

Technologies and Tools Used: Use of Visual Studio for a wider range of software languages to reach a bigger variety of devices and people and use of Sketch to do the design of our project.

Project Budget and its Usage: Measurement of the project's budget and how it was used.

Usage of Time: The project was done on a timely basis, with a weekly schedule put in place and followed.

Code Repetition:The project will have minimal code repetition as new lines of code will be written for each part.

Number of Meetings: According to the planned dates, all necessary meetings with stakeholders were held.

Measurement storage and collection:

1)

•What : This project required significant effort, involving extensive planning, coordination, and execution across multiple stages and teams.

•When : Throughout the testing phase.

•Format : Real number data.

•How : The project requires significant input on sprint planning, task prioritization, daily meetings, improving backlogs, and promoting effective team communication and collaboration—all key components of the Scrum framework for software development.

2)

•What : Requirements were determined before starting the project. Checking how many requirements were fulfilled and how.

•When : Throughout the entire project..

•Format : Not needed for this measurement.

 •How : By testing the project and checking what functions the application performs and how it performs according to the determined requirements.

3)

•What : The team designed an app that reduces waste and helps people in poor financial situations.

•When : At the end of the project, when the application starts to be used.

•Format : Documentation and application.

•How : Using the scrum framework.

4)

•What : Design and System Architecture, Database Systems, Development tools are used in this project.

•When : In the design and software phase of the application.

•Format : For Design and System Architecture

•How : By experts who know how to use the tools, in accordance with the design of the application.

5)

• What :The project is as efficient as we want.

• When : Throughout the entire project.

• Format :Not needed for this measurement.

• How : Trying to do our best by solving the difficulties we encountered throughout the project.

6)

• What : The amount of money we spent during the project.

• When : In the construction, testing and subsequent updates phases of the project.

• Format : Usually in dollars.

• How : Spending is made according to the budget determined by the project manager.

7)

• What : Was the project carried out in accordance with the initially planned schedule during the construction phase?

• When : Throughout the entire project.

• Format : Time duration.

• How : The project continues every week according to the calendar set at the beginning of the project.

8)

• What :Holding meetings with stakeholders planned during the project process.

• When :At certain times during the project.

• Format :Not needed for this measurement.

• How : Meet with stakeholders to discuss the progress of the project and to make new decisions.

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Measurement Type	Description	Example Measurements
Testing Process	To make sure the program works correctly, controlling the unit, performance, security test etc.	Number of tests targeted and performed, number of successful tests, different tests performed
Space Usage	Controlling that space usage is kept to a minimum so that the program is less complex, more performant and easier to maintain.	Number of lines, desired language to be used, desired memory size to be used, memory usage, results of memory usage control tools
Time Usage	To make sure the time required for this project was used optimally and the project was completed in the given time.	Target time range and actual time range
Project Budget	To give a project, certain amount of financial plan for the work.	Target definite budget for the tools, for development process, budget for payment of the whole scrum team

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Requirements	To check how many of the requirements specified for the project have been achieved and what problems were encountered.	Target functional and non-functional requirements and numbers, requirements and number of made, rate of problems encountered
Meetings	Checking how many of the designated meetings with stakeholders have been carried out	Number of meetings planned, number of meetings held