

SE 315 – SOFTWARE PROJECT MANAGEMENT
SOFTWARE MEASUREMENTS DOCUMENT

PROJECT NAME: BrightBorn

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Burak Erdoğan

Questions to identify measurements:

- 1) How much storage do we need for our dataset?
- 2) What will be the size of our genetic data stored in database?
- 3) What will be the accuracy for calculated results?
- 4) How long it would take to calculate a single possibility?
- 5) How many lines our code will take?
- 6) How long would it take to find the reference genetical information?

Identified measurements:

- 1) Dataset storage (each week)
- 2) Genom size (continuously)
- 3) Accuracy and error (after every calculation)
- 4) Execution time (at the end of every execution)
- 5) Code size (after each maintenance)
- 6) Research time (per week)

Measurement storage and collection:

- 1) What - There will be an initial limit for our dataset storage
When - Each week we will check the dataset storage
How - If it is close to the limit we will increase the limit
Format - Gigabyte
Whom - Cem Özcan
- 2) What - Collection of the genomic data
When - Continuously
How - Searching on literature
Format - Articles and dataset
Whom - Uğur Dura
- 3) What - Accuracy will be based on possibility calculations
When - we will check its error percentage on every iteration
How - By calculating percentage error
Format - Percentage error
Whom - Zeynep Övgü YAYCI

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<p>4) <u>What</u> - Execution time <u>When</u> - At the end of every execution <u>Format</u> - second <u>Whom</u> - Mustafa AYKAÇ</p> <p>5) <u>What</u> - Lines of code <u>When</u> - after every maintenance <u>Format</u> - numbers <u>Whom</u> - Burak Erdoğan</p> <p>6) <u>What</u> - Research time <u>When</u> - At the end of each week <u>How</u> - Everyone will report their research time <u>Format</u> - hours <u>Whom</u> - Uğur Dura</p>

Measurement Type	Description	Example Measurements
Dataset Storage	Size of the dataset	1 Gb
Data Colleciton	Storage size of genoms	200 Mb
Performance and evaluation	Accuracy and error calculation	%95
Response time	Execution time measuring	4250 ms
Code Size Measurement	Lines of code	1500 lines
Effort Distribution	Research time	144 hours