#CODE BOOK

The variables for each record in the (independent) tidy data set includes:

-An identifier of the subject who carried out the experiment

-Mean of all time and frequency domain variables

-Standard deviation (std) of all time and frequency domain variables

-Activity labels of the time and frequency domain (mean and std) variables

The following variables were calculated in cleaning up the data:

|S/N | VARIABLE | DECRIPTION |

|-----|---------------------|-------------------------------------------|

|1 | f\_train |Filenames of train text files |

| | | Character vector | | | | Length = 3 | |2 | dl\_train |Train data (subject id, training set and | | | | training labels) |

| | | List of 3 (data frame) elements |

|3 |f\_test |Filenames of test text files |

| | | Character vector |

| | | Length = 3 |

|4 |dl\_test |Test data (subject id, training set and |

| | | training labels) |

| | | List of 3 (data frame) elements |

|5 |mergedData |Merged train and test datasets |

| | | Data frame |

| | | 7352 observations of 563 variables |

|6 |mergedData$Activity |Activity variable in mergedData |

| | | Character vector |

|7 |rd\_mergedData |Remove duplicate column names in mergedData|

| | | Data frame |

| | | 7352 observations of 479 variables |

|8 |mean\_mergedData |All variables with name containing “mean” |

| | | Data frame |

| | | 7352 observations of 53 variables |

|9 |std\_mergedData |All variables with name containing “std” |

| | | Data frame |

| | | 7352 observations of 33 variables |

|10 |mergedData\_mean\_std |All variables with name containing “mean” | | | | and “std” |

| | | Data frame |

| | | 7352 observations with 86 variables |

|11 |newdata |Average of all mean and standard deviation | | | | (std) variables by subject id and |

| | | activity |

| | | Data frame | | | | 126 observations of 88 variables |

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