**Getting-and-Cleaning-Data-Project**

**Code Book**

Source Data downloaded from: <https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip>

The data was in a “Zipped” file “Dataset.zip”

Dataset.zip was opened with the R function unzip and placed in a “tempfile” directory.

unzip(zipfile="./Dataset.zip",exdir="./tempfile")

The training text files were loaded into three tables:

xtraining

ytraining

subjecttraining

The test text files were loaded into three tables:

xtest

ytest

subjecttest

Two additional tables were loaded from their respective text files:

features from features.txt

activityLabels from activity\_labels.txt

Column names activityID and subjectId were added to the train and test tables

The three train tables were merged into “mergetrain”

The three test tables were merged into “mergetest”

mergetrain and mergetest were merged into mergeall

A vector file was created findmean\_std that identified variables that contained either “mean” or “std” as “TRUE”.

A new table “Mean\_StdTbl” is created by extracting all of the variables = “TRUE” in findmean\_std.

AddActivityNames is created to add activityLabels to “Mean\_StdTbl”

TidySetData is a table with a modified structure to return just subjectId, activityId, activityType, and mean and std variables.

TidySetData is further modified to eliminate std variables

The modified TidySetData table is written out to "TidySetData.txt" in the working directory for further analysis