**CODEBOOK**

“Getting and Cleaning Data” Course Project Code Book

**Initial data for research**

Identifiers

subject - The ID of the test subject

activity - The type of activity performed when the corresponding measurements were taken

tBodyAcc-XYZ;

tGravityAcc-XYZ;

tBodyAccJerk-XYZ;

tBodyGyro-XYZ;

tBodyGyroJerk-XYZ;

tBodyAccMag;

tGravityAccMag;

tBodyAccJerkMag;

tBodyGyroMag;

tBodyGyroJerkMag;

fBodyAcc-XYZ;

fBodyAccJerk-XYZ;

fBodyGyro-XYZ;

fBodyAccMag fBodyAccJerkMag;

fBodyGyroMag fBodyGyroJerkMag;

**Activity Labels**

The following data transformations were conducted to form a tidy dataset: Added a new feature activity label - factor variable for activities with the following levels:

WALKING;

WALKING\_UPSTAIRS;

WALKING\_DOWNSTAIRS;

SITTING;

STANDING;

LAYING;

Tidy dataset was build as a mean values of features grouped by activity label and subject - for each subject and activity type determined mean values over all activities of that type.