Reference No:

Revision History:

Name	Change Date	Version	Description of Changes
Omar Javed	6th November, 04	0.1	Created

POS ID: UPOS07

Part of Speech Name: Quantifier

Part of Speech String: quantifier

Lexical Entry Template:
<*word*>: quant, ^ CTYPE= {MASS, COUNT}, ^ NUM = {SG, PL}, ^ GEND = {M, F}, FORM = {NOM, OBL}, ^ RESPECT = {NORESPECT, FAMILIAR, USUAL, EXTRA}, QUANTYPE = {NORMAL, INT}.

Sample Lexical Entry:
اتنے : quant,^Pred ='اتنا',^CTYPE=COUNT, ^ NUM = PL, ^ GEND = M, ^ FORM = {NOM,OBL}, ^ RESPECT = {NORESPECT, FAMILIAR, USUAL, EXTRA}, ^QUANTYPE = NORMAL.

اتنی : quant,^Pred ='اتنا',^CTYPE=COUNT, ^ NUM = PL, ^ GEND = F, ^NDERIVED = NEG, ^FORM = {NOM, OBL} , ^ RESPECT = {NORESPECT, FAMILIAR, USUAL, EXTRA}, ^QUANTYPE = NORMAL.

اتنا : quant,^Pred ='اتنا',^ CTYPE=MASS, ^ NUM = SG, ^ FORM = NOM, ^ GEND = M, ^ RESPECT = NORESPECT, ^QUANTYPE = NORMAL.

اتنے : quant,^Pred ='اتنا',^CTYPE=MASS, ^ NUM = SG, ^ GEND = M, ^ FORM = OBL, ^ RESPECT = NORESPECT, ^QUANTYPE = NORMAL.

اتنی : quant,^Pred ='اتنا',^CTYPE=MASS, ^ NUM = SG, ^ GEND = F, ^FORM = {NOM, OBL} , ^ RESPECT = NORESPECT, ^QUANTYPE = NORMAL.

كتنا : quant,^Pred ='كتنا',^ CTYPE=MASS, ^ NUM = SG, ^ FORM = NOM, ^ GEND = M, ^ RESPECT = NORESPECT, ^QUANTYPE = INT.

Description: Like articles, **quantifiers** are words that precede and modify nouns. They tell us how many or how much [2].
The description of the features is following:

CTYPE can be:	MASS	*Example:* اتنا
	COUNT	Example: بعض
NUM (Number) can be:	SG (singular):	*Example:*اتنا
	PL (plural):	*Example:*اتنے
	It cannot be null or both	
GEND (Gender) can be:	M (masculine):	*Example:* اتنا
	F (feminine):	*Example:*اتنی

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It cannot be null

FORM can be: NOM (Nominative):   *Example:* کوئی
                         OBL (Oblique):   *Example:* کسی
                         It cannot be null.

RESPECT can be: NORESPECT: *Example:* اتنا
                         FAMILIAR: *Example:* اتنے
                         USUAL: *Example:* اتنے
                         EXTRA: *Example:* اتنے
                         It cannot be null.

QUANTTYPE(Quantifier Type) can be:
                         NORMAL: *Example:* اتنا
                         INT(Interrogative)   *Example:* کتنا
The detail of the feature values is discussed in analysis section.

Examples:

کچھ ، چند،تمام، کوئی ، اتنے، بر، سب، تھوڑا، تھوڑے، اِتنا، اِتنی، کئی، بعض، کل
وہ الفاظ جن میں ایک بطور لاحقہ آتا ہے جیسے پچاس ایک، دس ایک وغیرہ
دسیوں، بیسیوں وغیرہ
ہزار ہا، صدہا وغیرہ
سیر بھر، چلو بھر وغیرہ [1, p.36]

POS Status: Under Process

Reference:
مولوی عبدالحق، اردو صرف و نحو، صفحہ38 [1]
عصمت جاوید، نئی اردو قواعد، صفحہ 46 [2]
[3] http://webster.commnet.edu/grammar/determiners/determiners.htm

Related POS: UPOS104

Replaces: -UPOS07

Reason: -

Replaced by: -

Reason: -

Analysis: Following is the in-depth analysis of the POS.

Analysis:
The predicate of the quantifier is its logical form. The PRED of {اتنا، اتنے} is اتنا.

CTYPE can have two values: countable and mass nouns. This property specifies that the noun following the quantifier will be a countable noun or a mass noun. If 'تمام' has a CTYPE count then the noun following it would be countable noun e.g., 'تمام لوگ'. If 'تھوڑا' has a CTYPE mass then the noun following it would be mass noun e.g., 'تھوڑا پانی'

Number of a quantifier can be singular (SG) or plural (PL). It is a mandatory feature. If any quantifier has both singular and plural values they will be written in the form of set, e.g. {SG, PL}. Same is for Gender feature.

Form can have two values NOM and OBL. If the quantifier has a form NOM (nominative) it means the noun following that quantifier will not have any case marker/postpositions following it (the noun will not follow any case marker/postposition) e.g 'اتنا کھانا ختم ہو گیا ہے'. If the quantifier has a form OBL (Oblique) then the noun following it will have some case marker/postpositions following it e.g., 'اتنے لڑکوں نے کھانا کھایا'

Respect can have the four values NORESPECT, FAMILIAR, USUAL, EXTRA} It is same as written in the pronouns POS document (UPOS05)

Result: We decided on the above Analysis.

Future Work: Currently, we analyzed only single word quantifiers. Quantifiers consisting of two or more words will be analyzed in future.