



Reference No:

Revision History:

Name	Change Date	Version	Description of Changes
Omar Javed	06 th November, 04	0.1	Created
Sara Hussain	20 th Dec, 2004	4.1.0.0	Modified (added TENSE feature)
Sara Hussain	7 th Feb, 2005	4.1.1.2	Added FORM and _INFL_AGREEMENT feature for infinitival entry
Sara Hussain	21 st Feb, 2005	4.1.1.3	Added DEVERBAL feature for deverbals.

POS ID: UPOS13

Part of Speech Name: Verb

Part of Speech String: v

Lexical Entry Template:

<word>: v, ^ PRED = '<logical form of word>', ^_VERB_FORM = '<logical form of word in roman'>, ^_SUBJ_CASE
= {NOM, ERG}, ^_MORPH FORM = {root, subjunctive, perfective, habitual, infinitive, percative}, ^ TNS_ASP
HABITUAL = {POS}, ^CAUSATION = {NO, SINGLE, DOUBLE}, ^ NUM = {SG, PL}, ^ GEND = {M, F}, ^PERSON =
{1, 2, 3}, ^ RESPECT = {NORESPECT, FAMILIAR, USUAL, EXTRA}, ^ TENSE = {PRES, FUTURE, PAST},
^_INFL_AGREEMENT = {POSITIVE, NEGATIVE}, ^FORM={NOM, OBL}, ^DEVERBAL = {ADJECTIVE, NOUN}.

Sample Lexical Entry:

v,^Pred ='ابلاد subj,Obj>', ^_verb_form = 'ubal',^ _subj_case=nom, ^_morph form = habitual, ^ TNS_ASP HABITUAL = POS, ^CAUSATION = NO, ^ NUM = SG, ^ GEND = M, ^ PERSON = {1, 2, 3}, ^ RESPECT = NORESPECT.

v,^Pred ='بالتے 'v,^Pred ='بالے 'SUBJ,OBJ>', ^_VERB_FORM = 'ubal',^_SUBJ_CASE=NOM, ^_MORPH FORM = habitual, ^ TNS_ASP HABITUAL = POS, ^CAUSATION = NO, ^ NUM = PL, ^ GEND = M, ^ PERSON = {1, 2, 3}, ^ RESPECT = {NORESPECT, FAMILIAR, USUAL, EXTRA}.

: v,^Pred = 'بالت : v,^Pred = 'v,^Pred = 'v,^P

v,^Pred = 'بالناح SUBJ,OBJ>', ^_VERB_FORM = 'ubal',^ _SUBJ_CASE=NOM, ^_MORPH FORM = habitual, ^ TNS_ASP HABITUAL = POS, ^CAUSATION = NO, ^ NUM = SG, ^ GEND = F, ^ PERSON = {1, 2, 3}, ^ RESPECT = NORESPECT.

= : v, ^_VERB_FORM='hay_pred', ^_MORPH_FORM = SUBJUNCTIVE, ^CAUSATION = NO, ^ NUM = SG, ^ GEND ={M, F}, ^ PERS = {2, 3}, ^ RESPECT = NORESPECT, ^_ALLOWED_FORM = {PERFECTIVE, HABITUAL}, ^ TENSE = PRES.

 $v,^{Pred} = '$ كهانا : $v,^{Pred} = '$





v,^Pred ='له' : v,^Pred ='k-<SUBJ,OBJ>', ^_VERB_FORM = 'kha', ^ _SUBJ_CASE=NOM, ^_MORPH_FORM = INFINITIVE, ^CAUSATION = NO, ^ NUM = SG, ^ GEND =M, ^ PERS = {1,2,3}, ^ RESPECT = {NORESPECT,FAMILIAR,USUAL,EXTRA}, ^ FORM = OBL, ^_INFL_AGREEMENT = POSITIVE.

v,^Pred ='كهانى: v,^Pred ='لهانى: v,^Pred ='kha', ^_SUBJ_CASE=NOM, ^_MORPH_FORM = INFINITIVE, ^CAUSATION = NO, ^ NUM = {SG,PL}, ^ GEND =F, ^ PERS = {1,2,3}, ^ RESPECT = {NORESPECT,FAMILIAR,USUAL,EXTRA}, ^ FORM = {NOM, OBL}, ^ INFL AGREEMENT = POSITIVE.

//entries with gender feature absent

 $v,^{Pred} = ''$ كانا : $v,^{Pred} = ''$ كالنا : $v,^{Pred} = ''$

: v,^Pred = 'kha', ^_SUBJ,OBJ>', ^_VERB_FORM = 'kha', ^_SUBJ_CASE=NOM, ^_MORPH_FORM = INFINITIVE, ^CAUSATION = NO, ^ NUM = SG, ^PERS = {1,2,3}, ^ RESPECT = {NORESPECT,FAMILIAR,USUAL,EXTRA}, ^ FORM = OBL, ^_INFL_AGREEMENT = NEGATIVE.

//deverbal entry

v,^Pred ='نبنا: v,^Pred ='نباد SUBJ>', ^_VERB_FORM = 'ban', ^_SUBJ_CASE=NOM, ^_MORPH_FORM = HABITUAL, ^CAUSATION = NO, ^ NUM = SG, ^ GEND =M, ^ PERS = {1,2,3}, ^ RESPECT = {NORESPECT, FAMILIAR,USUAL,EXTRA}, ^ FORM = NOM, ^DEVERBAL = {ADJECTIVE, NOUN}.

v,^Pred ='بنتّ: v,^Pred ='بنتـ' <SUBJ>', ^_VERB_FORM = 'ban', ^_SUBJ_CASE=NOM, ^_MORPH_FORM = HABITUAL, ^CAUSATION = NO, ^ NUM = SG, ^ GEND =M, ^ PERS = {1,2,3}, ^ RESPECT = {NORESPECT,FAMILIAR,USUAL,EXTRA}, ^ FORM = OBL, ^DEVERBAL = {ADJECTIVE, NOUN}.

v,^Pred ='بنتّ v,^Pred ='بنت' v,^Pred ='بن' v,^Pred ='بنت' v,^Pred ='بنت' v,^Pred ='بنت' v,^Pred ='بن' v,^Pred ='بن' v,^Pred ='v,^Pred ='v,^Pred

v,^Pred ='بنتى v,^Pred ='بن'> SUBJ>', ^_VERB_FORM = 'ban', ^_SUBJ_CASE=NOM, ^_MORPH_FORM = HABITUAL, ^CAUSATION = NO, ^ NUM = {SG,PL}, ^ GEND = F, ^ PERS = {1,2,3}, ^ RESPECT = {NORESPECT,FAMILIAR,USUAL,EXTRA}, ^ FORM = {NOM,OBL}, ^DEVERBAL = ADJECTIVE.

v,^Pred ='بنتى v,^Pred ='بن'> SUBJ>', ^_VERB_FORM = 'ban', ^_SUBJ_CASE=NOM, ^_MORPH_FORM = HABITUAL, ^CAUSATION = NO, ^ NUM = SG, ^ GEND =F, ^ PERS = {1,2,3}, ^ RESPECT = {NORESPECT,FAMILIAR,USUAL,EXTRA}, ^ FORM = {NOM, OBL}, ^DEVERBAL = NOUN.

v,^Pred ='بنتى v,^Pred ='بنتى SUBJ>', ^_VERB_FORM = 'ban', ^_SUBJ_CASE=NOM, ^_MORPH_FORM = HABITUAL, ^CAUSATION = NO, ^ NUM = PL, ^ GEND =F, ^ PERS = {1,2,3}, ^ RESPECT = {NORESPECT,FAMILIAR,USUAL,EXTRA}, ^ FORM = NOM, ^DEVERBAL = NOUN.

v,^Pred = 'بنّ: v,^Pred = 'بنّ: v,^Pred = 'ban', ^_SUBJ>', ^_VERB_FORM = 'ban', ^_SUBJ_CASE=NOM, ^_MORPH_FORM = HABITUAL, ^CAUSATION = NO, ^ NUM = PL, ^ GEND =F, ^PERS = {1,2,3}, ^ RESPECT = {NORESPECT, FAMILIAR, USUAL, EXTRA}, ^ FORM = OBL, ^DEVERBAL = NOUN.

//the hoa word





v, $^{\text{Pred}}$ - $^{\text{Pred}}$ -

يوئي: v,^Pred = 'بو', ^_VERB_FORM = 'ho', ^ _SUBJ_CASE=NOM, ^_MORPH_FORM = PERFECTIVE, ^CAUSATION = NO, ^ NUM = SG, ^GEND = M, ^ PERS = {1,2,3}, ^ RESPECT = {NORESPECT,FAMILIAR,USUAL,EXTRA}, ^ FORM = OBL, ^DEVERBAL = {ADJECTIVE, NOUN}.

بوئى: v,^Pred = 'بو', ^_VERB_FORM = 'ho', ^ _SUBJ_CASE=NOM, ^_MORPH_FORM = PERFECTIVE, ^CAUSATION = NO, ^ NUM = {SG,PL}, ^GEND =F, ^ PERS = {1,2,3}, ^ RESPECT = {NORESPECT,FAMILIAR,USUAL,EXTRA}, ^ FORM = {NOM,OBL}, ^DEVERBAL = ADJECTIVE.

بوئے: v, Pred - $^{'}$, $^{'}$ - VERB - $^{'}$ - VERB - $^{'}$ -

يوئى: v,^Pred = 'ب, ^_VERB_FORM = 'ho', ^_SUBJ_CASE=NOM, ^_MORPH_FORM = PERFECTIVE, ^CAUSATION = NO, ^ NUM = SG, ^GEND =F, ^ PERS = {1,2,3}, ^ RESPECT = {NORESPECT,FAMILIAR,USUAL,EXTRA}, ^ FORM = {NOM, OBL}, ^DEVERBAL = NOUN.

بوئے: v,^Pred = 'بوئے: v,^Pred = 'ho', ^_SUBJ_CASE=NOM, ^_MORPH_FORM = PERFECTIVE, ^CAUSATION = NO, ^ NUM = PL, ^GEND = M, ^ PERS = {1,2,3}, ^ RESPECT = {NORESPECT,FAMILIAR,USUAL,EXTRA}, ^ FORM = NOM, ^DEVERBAL = NOUN.

v, $^{Pred} = '$, L , L L , L L , L L , $^{$

Description

Verbs (or main verbs) are used to represent actions performed.

The description of the features is following:

ابالتا: SUBJ CASE can be: NOM Example

ابالے:ERG Example

_MORPH FORM can be: bare: Example: اتر

subjunctive: Example:اتر perfective: Example:اتر المائلة habitual: Example:اترتا: infinitive: Example:اترئيــ ercative: Example:اترئيـــ

It cannot be null or more than one.

TNS_ASP HABITUAL can be:

POS: Example: ابالت

اتر :CAUSATION can be: NO: Example

SINGLE: Example:اتار DOUBLE: Example:اتروا

It cannot be null.

NUM (Number) can be: SG (singular): Example: اترا

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PL (plural): Example:اتر

It cannot be null or both.

GEND (Gender) can be: M (masculine): Example: اترا

اترى:F (feminine): Example

It cannot be null or both.

PERSON (Person) can be:

7. (3rd person): Example:اتر∠ 2 (2nd person): Example:اترو 1 (1st person): Example:اتروں

RESPECT can be: NORESPECT, FAMILIAR, USUAL, EXTRA

It cannot be null. It is used for agreement.

TENSE can be: PAST: Example: الإ

PRES: Example: ہے
FUTURE: Example: بو

This an optional feature used specifically for 'hay_dat' and 'hay_pred' conditions.

FORM can be: NOM: Example: کهانا

OBL: Example: کھانے

This is an optional feature used for infinitival and deverbal entries.

_INFL_AGREEMENT (Infinitival gender agreement) can be:

POSITIVE: Example:کهانی NEGATIVE: Example:کهانا

This an optional feature used specifically for infinitival verb entry. It cannot be both.

PEVERBAL can be: NOUN: Example: بوذن

ہوئے:ADJECTIVE: Example

This is an optional feature used for deverbal entries. It can be both.

The detail of the feature values is discussed in analysis section.

Examples:

لکھنا، کھاتا، سوئے، پڑھیں، چل





POS Status: Active

Reference:

[1] Urdu Verbs Forms and Features (MT-02_Verb Features.doc)

جامع القواعد، ابو الليث صديقي [2]

اردو صرف ونحو، مولوى عبدالحق[3] نئى اردو قواعد، عصمت جاويد[4]

Related POS: UPOS114, UPOS115, UPOS116

Replaces: -UPOS13

Reason: -

Replaced by: -

Reason: -





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

Analysis: About all the writers e.g. [2, 3, 4] of Urdu Grammar has categories verbs into more than one types. All of them are agreed that Verb (or Main Verb) is a type of verb that shows some action. Consider following examples: اسے خط لکھنا پڑتا ہے۔

ے خط **لکھنا** پڑتا ہے۔ وہ آم **کھاتا** جاتا ہے۔ وہ کتاب **پڑھ** رہا ہوگا۔

Different inflectional forms of a verb can be represented using following features: Predicate, _VERB_FORM, _MORPH Form, TNS_ASP, Causation, Gender, Number, Person, and Respect. The description of these features is given in [1].

Infinitivals (verb in bare form + suffix ½, 2 and 2) have been modeled as verbs having nominal properties. They introduce a feature of _INFL_AGREEMENT which tells whether the infinitival verb agrees with its embedded object or not (see UGR104 for details). If the agreement is NEGATIVE then the gender feature GEND is missing in that entry as can be seen in the sample entries given above. Infinitive verbs like nouns show nominative and oblique forms. For this reason feature of FORM has been introduced. This feature is also used to show different forms in deverbals.

Deverbals are verbs that can occur as adjective or noun in a sentence. DEVERBAL feature in a verb entry shows presence of deverbals as nouns or as adjective. The FORM feature gives the nominative or oblique form of a deverbal.

Result: We decided on Analysis.

Future Work: