

Ekushe Keyboard : A Bangla Keyboard for Desktop

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INPUT

Installs global hook to receive keyboard events at low level. Hook provides virtual keycode. Virtual keycodes are composed into upper, lower case letters & digits. These letters & digits are passed to parser.

STEP
01

Hardware Communication

PARSER

Phonetically converts sequence of english letters into bangla letters using predefined rules associated with pre-mapped Bangla letters, kars, and juktakkhors. Word by word processing.

STEP
02

Conversion Logic

STEP
03

Speed-up Typing

SUGGESTION

Text auto-complete feature for both Bangla & English. A prefix is created from available dataset & DFS is performed on the tree to provide real time word suggestion.

STEP
04

Alleviate Writting

PREDICTION

Next word prediction feature using N-gram language model. Previous word is searched in bigram/trigram table to predict next word. User can press number associated with provided probable next word list to quickly type the word.