

SPEECH PROSODY EVALUATOR FOR SCHOOL STUDENTS IN INDIA



NEED

1. Difficult to give student specific attention

1. Lack of teachers 2. Creates embarrassment 3. Abrupt and only a few min/student 4. Not enjoyable

2. Classroom exams test written English only

No quantitative evaluation of reading and speaking fluency in India

3. Tools e.g. Project Listen teach reading skills but have problems in Indian domain (Bali, ICON 2013), and otherwise (Duong, Mostow, Sitaram, TSLP 2011)

1. Meant for native English speakers 2. Compare child's narration with adult's narration of the same sentence – geographical variations 3. Some other features not accounted for



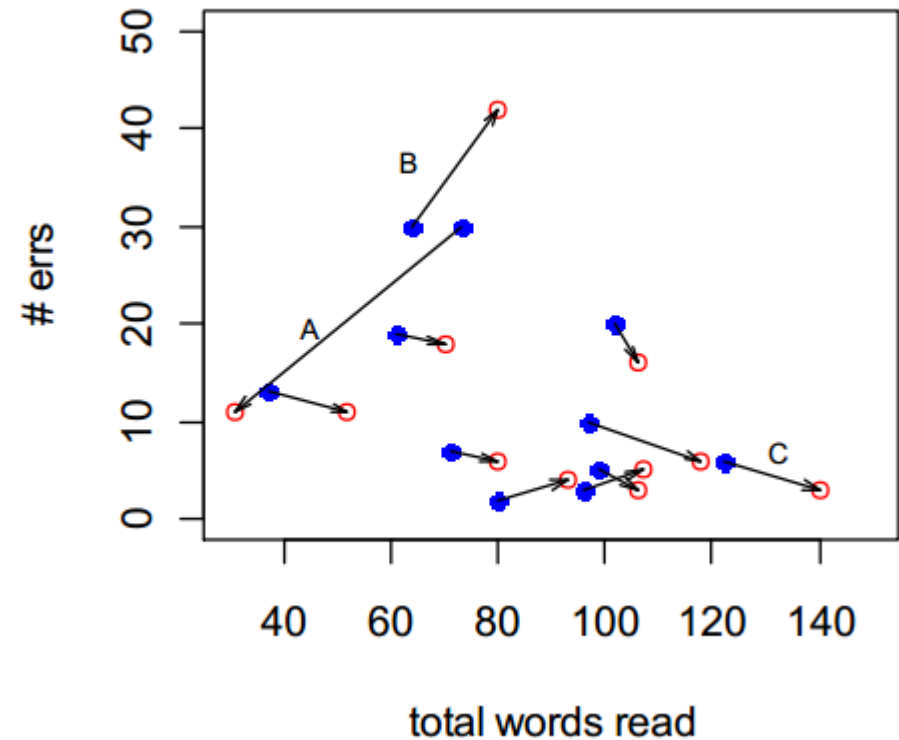
PERF — PROSODIC EVALUATION FOR READING FLUENCY

Desktop application to evaluate:

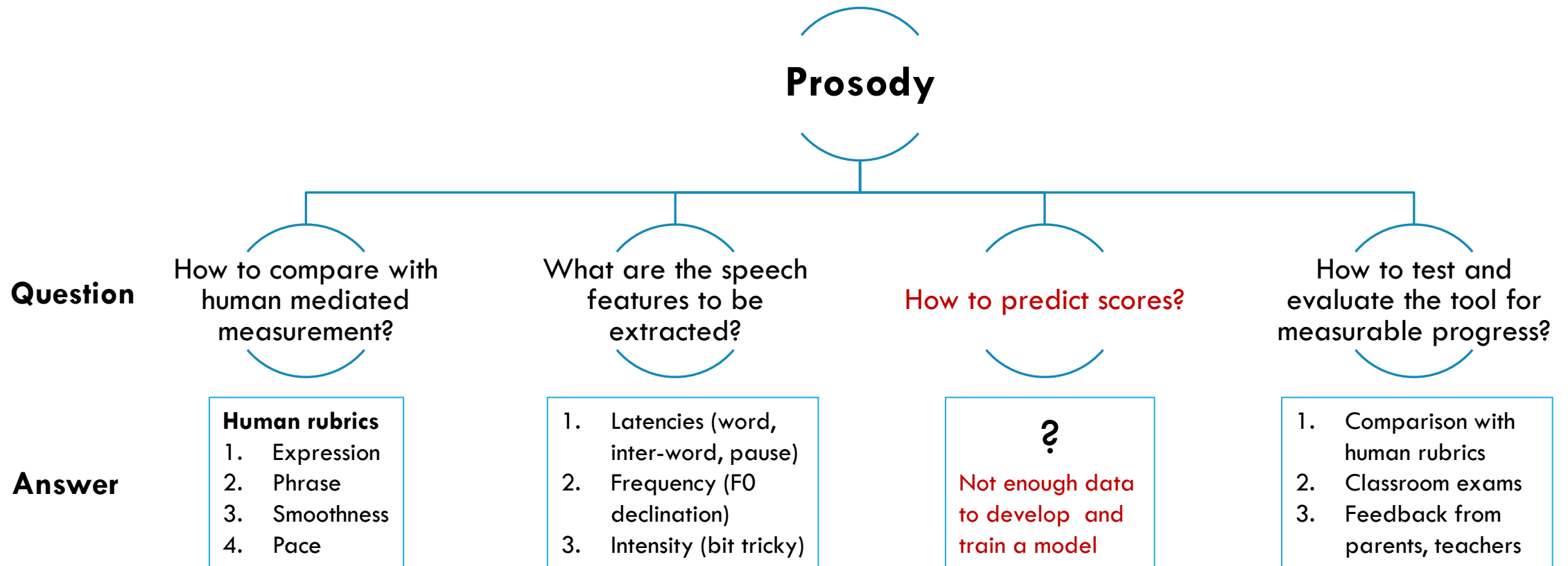
1. Fluency (How well are you speaking?)
2. Prosody (Are you making correct rhythm, tempo, punctuations?)
3. Comprehension (Have you understood the meaning of the passage?)
4. Gains (Was there any notable improvement in 1,2,3 over time?)

OUR APPROACH

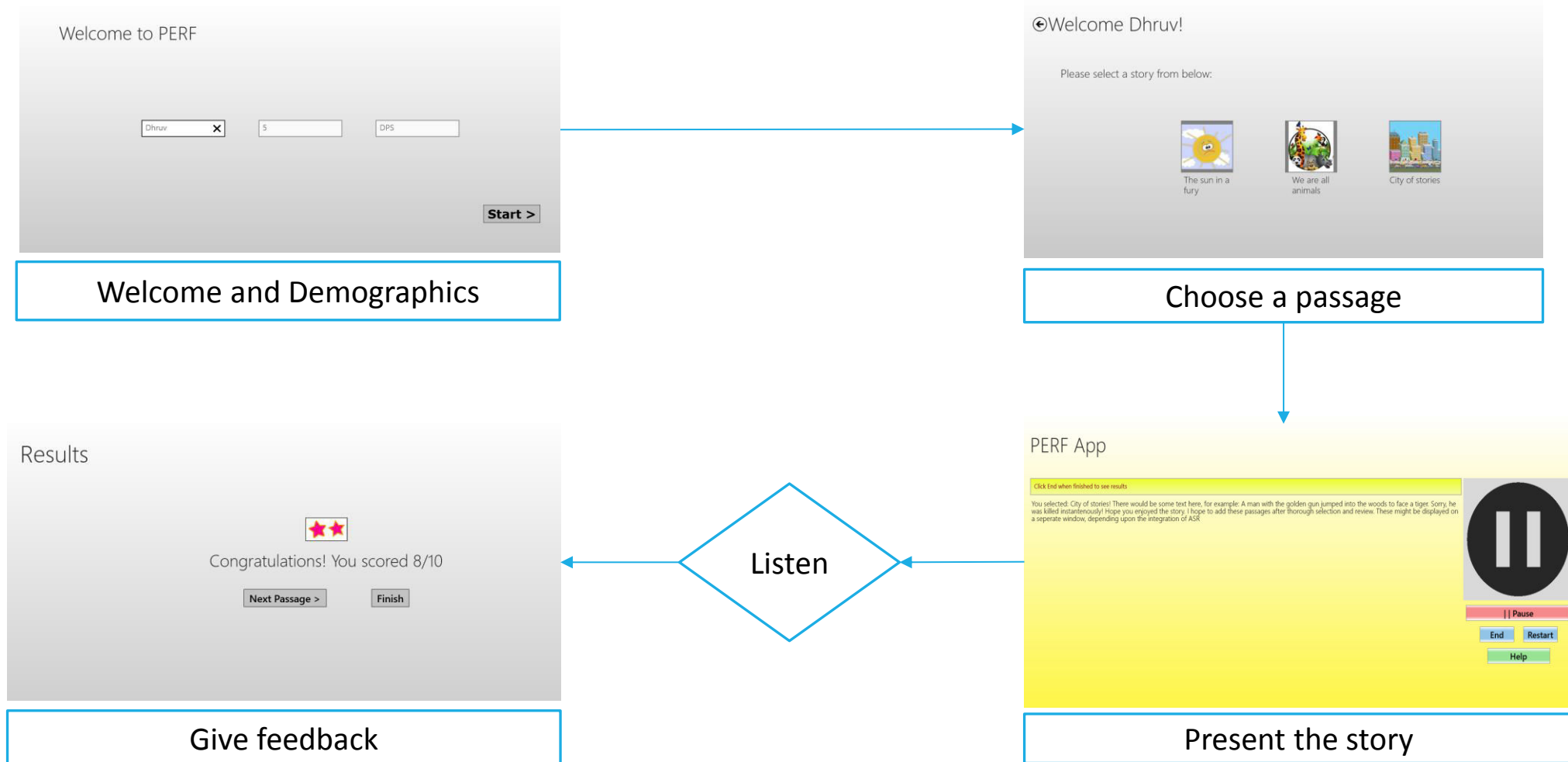
- Fluency
 - Variation of CBM - Plot a graph as shown
- Prosody
 - Most important, discussed in detail in next slide
- Comprehension (later)
 - MCQ
 - Calculated from fluency and prosody
- Gains
 - Not our current focus



OUR APPROACH – PROSODY MEASUREMENT



APPLICATION INTERFACE FLOW CHART





THANK YOU