

Worklet Details

1. Worklet ID: OD153MS
2. College Name: Ramaiah Institute of Technology

KPIs achieved till now

1. Understood relationships between required modules
2. Acquainted with the required APIs
3. Developed sample solution to use TTS functionality to read aloud text
4. Obtained text from a given URL/local document

Any Challenges/ Issues faced

1. Extracting info from some special utterances (eg :- Read *third* paragraph)
2. Indexing PDFs which don't have a predefined chapter index
3. Lack of libraries in Bixby capsule
4. Awaiting the issue of Samsung device

Next Steps

1. Work on integrating App and Bixby capsule.
2. Support more variety of utterances (next , prev , skip etc)
3. Summarizing text (NLP)
4. Improving the UI/UX

Key Achievements/ Outcome till now

1. Parsed text from websites and PDFs
2. Read text using inbuilt TTS
3. Trained basic Read aloud utterances and converted them to JSON
4. Mapping out PDF's index to location in the document

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KPIs achieved till now

1. Navigate the text as per user interactions
2. Integrating bixby capsule with Reader app

Any Challenges/ Issues faced

1. Unable to detect utterance while the TTS is running
2. Unable to pause TTS only for specific use cases (Eg : calls)

Next Steps

1. Add support for other text sections (Line, sentence..)
2. Summarizing text (NLP)
3. Improving the UI/UX
4. Handling Edge cases

Key Achievements/ Outcome till now

1. Extracted info from some special utterances (eg :- Read *third* paragraph)
2. Successfully integrated bixby capsule with Reader app
3. Supported more variety of utterances (next , prev , skip etc)
4. Saved the current state of TTS in Local storage.

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KPIs achieved till now

1. Implemented Audio Focus.
2. added feature to scroll the application to currently reading paragraph
3. Made progress in sentence navigation.

Any Challenges/ Issues faced

1. We had been unable to pause the tts in scenarios such as getting a call.
2. Finding the paragraph/ sentence of interest was a challenge, but has now been implemented using scrollTop function.

Next Steps

1. Add support for pdfs (Document mapping for PDFs)
2. Stop, Pause, Resume feature.
3. Summarizing text (NLP)
4. Handling Edge cases

Key Achievements/ Outcome

1. Capsule now supports reading aloud sentences.
2. Used function scrollTop to find the relative position of the sentence/paragraph on the screen.
3. Supported more variety of utterances for paras and sentences (next , prev , skip etc)

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KPIs achieved till now

1. Restructured the utterances as per the official document
2. Implemented the corresponding text navigation on App
3. Achieved basic navigation in PDFs with PDF js

Any Challenges/ Issues faced

1. Unable to extract paragraphs from PDFs.
2. Bixby wake call isn't working when TTS is running
3. PDF js is buggy on android web view

Next Steps

1. Document mapping for PDFs
2. Separate UI App and Read aloud service
3. Summarizing text (NLP)
4. Handling Edge cases

Key Achievements/ Outcome

1. Full support of Webpage navigation with bixby
2. Added documentation to webpage code

Utterance	Expected result
Read aloud this \$source	Reading aloud starts from the beginning for the \$source currently being viewed
Read aloud rest of this \$source	Reading aloud starts from the current position (page number for local document, scroll position for web page) for the \$source currently being viewed
Read aloud this \$source from \$position	Reading aloud starts from the user given \$position for the \$source currently being viewed
In read aloud, repeat last \$N \$units	Reading aloud stops, Reading aloud resumes from \$position implied by \$N and \$units
In read aloud, repeat last/previous \$unit	Reading aloud stops, Reading aloud resumes from previous unit
In read aloud, skip \$N \$units	Reading aloud stops, Reading aloud resumes from \$position implied by \$N and \$units
In read aloud, skip this \$unit	Reading aloud stops, Reading aloud resumes from next unit
In read aloud, go to \$position	Reading aloud stops, Reading aloud resumes from user given \$position
Stop reading aloud {the \$source}	Reading aloud stops, Active document information cleared
Pause reading aloud {the \$source}	Reading aloud stops, Active document information maintained

Variable	Value
\$source	Webpage/Article (referring to webpage currently being viewed), Document (referring to a supported local document file in PDF or EPUB format)
\$N	Positive number
\$unit	Document units (page/section/chapter) or Language units (sentence, paragraph)
\$position	A RESTRICTED combination of \$N and \$unit
{...}	Optional utterance component

Start listening

Interacting