Manual Tests QtextToSpeech

For all test cases: Launch hello_speak example and select flite engine.

All console output begins with ${\tt qt.speech.tts.flite}$ which is skipped in the test descriptions.

Test case	Subject	Input	Expected result
Provisioning	Check flite installation	Launch hello_speak and select flite engine	At least one voices available in drop down menu => PASSED. Out of the box compilation has the following voices: • kal16 – male – adult • slt – male – adult • kal – male – adult • awb – male – adult • rms – male – adult
Utterance duration	Correct calculation of audio length with a given text	 Paste text: "This is a sample to calculate the duration of an utterance." Select voice kal16 Click "Speak" 	Voice "kal16" not available => SKIP Application console output contains: qt.speech.tts.flite: processText() end 3.18913 Seconds => PASSED
State transitions	Check state transitions depending on successful playback	 Paste text "This is to test state transition." Select any voice Click "Speak" 	Expected output: processText() end x Seconds processText() begin Audio sink state transition StoppedState IdleState Audio sink state transition IdleState ActiveState last data chunk written processText() end x Seconds Audio sink state transition ActiveState IdleState
Pause/ Resume	Check pause and resume behavior	 Paste text "This is a very long text in order to test, if flite stops on pause. It also tests if it continues on resume. Pause and resume can be repeated." Click "Speak" Click "Pause" Click "Resume" Click "Resume" Click "Resume" Click "Resume" Click "Speak" Click "Speak" Click "Speak" Click "Stop" 	Playback begins with Audio sink state transition StoppedState IdleState After Pause (playback stops): Audio sink state transition ActiveState SuspendedState After Resume (playback continues): Audio sink state transition SuspendedState ActiveState After Stop (playback remains stopped): Audio sink state transition SuspendedState StoppedState

Pitch	Check pitch shift	 Paste text "This is a pitch test." Select voice "kal16" Click "Speak" Move "Pitch" to 100% Click "Speak" 	Voice "kal16" does not exist => SKIP Pitch increases to a "higher" voice on second "Speak" => PASS
Error	Provoke synthesizing error	Paste arbitrary textSelect voice "awb"Movce "Pitch" to 100%Click "Speak"	Voice "AWB" does not exist => SKIP After Stop (playback remains stopped): Error QTextToSpeech::ErrorReason::Playback "Audio streaming error." => PASS
Volume	Check volume parameter	 Paste text "This is a volume test." Select arbitrary voice Click "Speak" Move "Volume" to 100& Click "Speak" 	Volume increases from first to second "Speak" => PASS
Rate	Check rate parameter	 Paste text "This is a rate test." Select arbitrary voice Click "Speak" Move "Rate" to 100& Click "Speak" 	Talking speed increases from first to second "Speak" => PASS