Test Record Doppler App

Last Updated: 12/04/2023

Please note that the Samsung S21 has an issue with the app not being able to accurately show the line visualiser in regards to the played audio. There have been no issues with the Android Studio’s emulator. Therefore, the tests have been performed using the emulator.

# Show the Doppler Effect on line visualiser

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| Test Case Description | Test Steps | Test Data | Expected Results | Actual Results | Pass/Fail |
| Play the phone alarm in different locations from microphone | 1. Go to line visualiser activity 2. Press record button 3. Play the phone alarm 4. Have the phone gradually move away to and from the microphone 5. Stop recording |  | Show visualiser frequency change from low to high | As Expected | Pass |
| Play the phone alarm in the same location from microphone | 1. Press record button 2. Play the phone alarm 3. Stop recording |  | Show visualiser no change in frequency | As Expected | Pass |

# Audio Player

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| Test Case Description | Test Steps | Test Data | Expected Results | Actual Results | Pass/Fail |
| Press play without recording | 1. Go to line visualiser activity 2. Press play button |  | Show visualiser frequency change relative to the train audio | As Expected | Pass |
| Record and then play the audio | 1. Go to line visualiser activity 2. Press the mic button and then record audio 3. Press the stop recording button 4. Press play button |  | Show visualiser frequency change relative to the recorded audio | As Expected | Pass |

# Video player

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| Test Case Description | Test Steps | Test Data | Expected Results | Actual Results | Pass/Fail |
| Check if the video plays as normal | 1. Make sure device is connected to internet 2. Go to What is Doppler Effect activity |  | Show video load properly with internet and plays automatically | As Expected | Pass |