Developing A Comprehensive Tool to Support Requirements Analyst During Elicitation Interviews

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ABSTRACT

- To address the issue of ambiguity between the requirements analyst and the stakeholder and to assist with gathering requirements, a proposition is to create a comprehensive tool for requirements analysts to be able to analyze and synchronize real-time data acquired from the E4 wristband and voice recording.
- The main questions: (1) How can a user-friendly application be designed to record voice and biofeedback data in real-time? (2) How can the biofeedback data be synchronized with the voice recording data?

METHODS

- Used Android Studio framework to build app
- Programmed using Java and XML
- Cloned Empatica project from GitHub
- Created recorder and real-time graphs

BACKGROUND

- Stakeholders have been interviewed using different voice recording platforms and the Empatica E4 wristband to gather biofeedback data.
- Support the requirements analyst during an elicitation interview in order to eliminate any miscommunication or misunderstandings between the requirements analyst and the stakeholder due to ambiguity in questions, statements, and responses.
- A requirements analyst conducts elicitation interviews in order to gather requirements which is a highly difficult task.

CONCLUSION

A user-friendly application that synchronizes biofeedback and voice recording data was in the works of development. The app should be used to support a requirements analyst during requirements elicitation interviews and help the analyst identify problems or concerns in the communication to better assess and engage the stakeholder.

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