

EIGP report

by Jordan Christopher Daniel Bailey

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Prifysgol Cymru
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Introduction

Deafelop is a start up company based in Wales, Swansea that provides assistive technology in the form of a mobile application to those that live with hearing impairment. This report covers the production and product development of Audious, its ideation, purpose and how it differentiates from other software driven applications in the industry.

Audious

Audious is a soon to be released iOS and Android mobile application that provides support to those that live with hearing impairment. Hearing loss can affect people in numerous ways and in many cases has linked to depression and social isolation, most notably in seniors. Using speech recognition and a wide range of other technologies, Audious has the capabilities of communication assistance for people across the world with deafness or hearing loss.

Features

As a team, Deafelop have researched and analysed a wide range of problems caused by hearing impairment. Audious provides solutions that help with tasks that are dependent on hearing. The features include the following:

Telephone Communication

In 2018, a survey carried out by Action On Hearing Loss, a UK based charity recently found that 65% of people with hearing loss expressed that they felt isolated at work, and 47% reportedly felt lonely. [1] Conversing over the phone can be incredibly challenging and in cases of profound deafness, near impossible. Using speech-to-text and Voice over IP (VoIP) technologies, users are able to make and retrieve call via the application where Audious is able to detect both of the caller's voices in real-time. Speech is then converted to text format and displayed for the hearing impaired user to read. Users will be able to import contacts directly from their phone book and can make calls directly to both mobile and landline. Once the call has ended, the user also has the option to save or delete their conversation.

Assistive Devices & Push Alerts

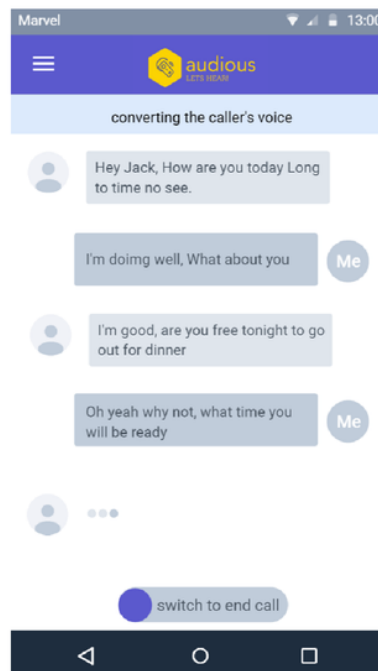
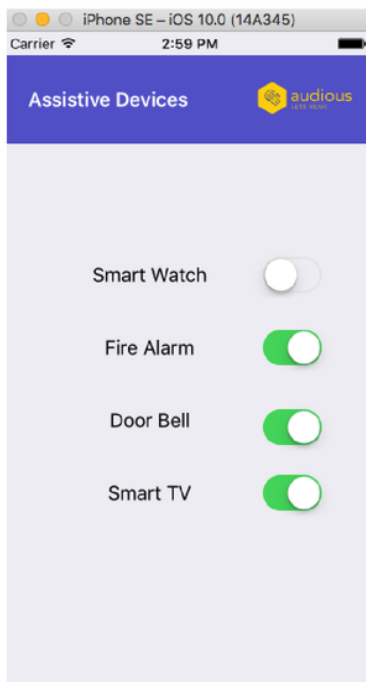
Audious also aims to implement connected devices which will be compatible with a range of smart devices such as doorbells, fire and smoke alarms and smart watches and TVs. Using Yale & Nest APIs, Audious will be compatible devices including:

- Fire & Smoke Alarms

In the event of a fire or exposure to carbon monoxide, those with hearing loss could potentially be unaware and as a result is a huge risk to their safety and wellbeing. Connecting the fire alarm as a device will trigger the application in the case of a fire and notify the user with a push alert that will vibrate continuously until the user confirms they are safe and out of danger.

- Doorbell

Using Yale & Nest APIs and devices, also send instant push notification alerts to the users phone via the app if somebody is at the door.



Live Updates

Audious also provides live updates for train cancellations and delays. As most live announcements are made over speakerphone, those with hearing impairment can miss important changes to their

journey. The National Rail provide the NRE which allows Audious to pull XML feeds that are operated live 24 hours a day to inform the user if their train has been disrupted. [2]

XML Data Feed for National Rail Disruption

Audios is able to use this data feed to notify its users if their train journey is to be delayed or cancelled and how long for. Alternative routes are also checked and displayed to the user.

Differentiation & UPS

We believe Audious is an incredibly unique product in that it provides more than one solution to more than one problem. It allows those with hearing loss to converse freely over the phone with their friends and family again. It provides information important to their lives and schedules, from checking public transport disruptions to informing them of incoming guests.

Audios's main competitor, RogerVoice is a recent start up that also offers speech to text recognition software for the hearing impaired. RogerVoice offers two plans to its customers and users are not able to exceed a monthly limit of 10 hours per month to landlines. We believe our product with its extra features it provides is much more worthy of support. We are currently offering two plans, as well as a free trial plan providing the user with 1 hour free call time. Deafelop are also committed to enhancing our product. We're actively seeking other potential problems in the industry and seeing how our product can help solve them.

References

- [1] "Tackling the loneliness of hearing loss Putting the business case | Action on Hearing Loss," Action on Hearing Loss, 2018. [Online]. Available: <https://www.actiononhearingloss.org.uk/live-well/our-community/our-blog/tackling-the-loneliness-of-hearing-loss-putting-the-business-case/>.
- [2] "NRE Feeds_Developer Pack v.01-04.pdf," [Online]. Available: http://www.nationalrail.co.uk/static/documents/NRE%20Feeds_Developer%20Pack%20v.01-04.pdf. [Accessed 17 March 2019].

EIGP report

GRADEMARK REPORT

FINAL GRADE

GENERAL COMMENTS

Instructor

40/100

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GRADING FORM: UWTSD GRADING FORM

**JORDAN CHRISTOPHER DANIEL
BAILEY**

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1. RESEARCH LITERATURE

Extent of research and/or own reading, selection of credible sources,

application of appropriate referencing conventions.



There is some evidence of citations to support some areas of the report. – This could be extended throughout to support all areas. + Good reference list format. – could be extended to include a more comprehensive range of sources to enhance knowledge and understanding of topics.

4

2. KNOWLEDGE AND UNDERSTANDING

Extent of knowledge and understanding of concepts and underlying principles associated with the discipline.



+ Product reasoning and description. + Technical understanding documented.

10

3. ANALYSIS

Analysis, evaluation and synthesis; logic, argument and judgement; analytical reflection; organisation of ideas and evidence.



+ Product features. Very Good. - No summative analysis i.e. conclusion. + Analysis and understanding of technical features documented. + Competitor considerations.

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4. PRACTICAL APPLICATION

Deployment of methods, materials, tools and techniques; application of concepts; formulation of innovative and creative solutions to solve problems.



- Some form of Technical or Business practical implementation could be included.

5. PROFESSIONAL PRACTICE

Attributes in professional practice: individual and collaborative working; deployment of appropriate media; presentation and organisation.



+ Submission on time. + Team sheets: Good consistent individual progress and team collaboration. - Report sections and ToC could be numbered. - Word count could be increased. + Good clear introduction. - No conclusion.

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