**Research**

**List of dissertation aims**

**This could include the hypothesis you want to test and/or your research questions**

We will develop an android app to replace chords sheets for musicians that will be able to gain a portion of the market and generate profit through add revenue and selling a premium version.

**List of dissertation objectives**

**These are the main things you will have to achieve to meet your dissertation aims**

* Developing an overall high quality application.
* Including high valuable features as importing files from other software, auto scrolling, creating custom sets, resizing the tabs, visualization of chords, transposing, etc.
* Providing a high quality user experience.
* Integrating adds on the application correctly.

**What is your main methodology for completing your research?**

**General methodology information (such as whether you will be using quantitative or qualitative approaches), plus details of how you will collect your data (e.g. software testing method to be used, whether questionnaires or interviews will be needed)**

The methodology that we will use to develop the software is called Extreme Programming (XP). This methodology calls for short sprints where the development team perform a sufficient design based on user stories, then from a simple and flexible design the team starts developing right away starting with the high value features that have been appointed.

The testing will be carried out in the form of automated testing to the code to ensure that there are no bugs or errors. As well as that user testing will be carried out to test the application usability and UX as well as the functionality of the main features. The user testing will be implemented providing tasks to the user to complete within the application and then a questionnaire to the tester.

**Will your research use participants?**

Yes

What is your sample size?

If human participants will be part of your project in any way you must state approximately how many there will be

5

**How have you arrived at this number? Please explain:**

Sample of convenience

**What age group(s) will you be working with? 15 or under 16 or 17 18 or over**

18 or over

**Are you working with children or vulnerable adults?**

No

**Do you require a DBS check?**

No

**How will you recruit your participants?**

**How will you prove that people are who - and what - they say they are, especially if you never meet them face-to-face (e.g. if you recruit via social media and use an online questionnaire to collect data)**

**Will you be providing a participant’s information sheet?**

Yes

**Will you make your participants aware of their right to withdraw from this study at any time?**

Yes

**Are you using a questionnaire as part of your study?**

Yes

**Please confirm you will gain informed consent from your participants in the form of a signed participant’s information sheet.**

Yes

**Please summarise any relevant legal issues**

The application will comply with the Data Protection Act 2018, which is the UK’s implementation of the General Data Protection Regulation (GDPR). We will comply with the data protection principles and all information stored in our app about our users will be:

* Used fairly, lawfully and transparently.
* Used for specified, explicit purposes.
* Used in a way that is adequate, relevant and limited to only what is necessary.
* Accurate and, where necessary, kept up to date.
* Kept for no longer than is necessary.
* Handled in a way that ensures appropriate security, including protection against unlawful or unauthorised processing, access, loss, destruction or damage.

Copyright issue: Our app acts as a platform that allows the user to upload chords sheets to perform songs. These songs might have been composed by the user or they might be copyrighted music. Our app doesn’t allow users to share their chords sheets with other users. Our app acts as a local database of chords sheets that will be used privately and exclusively by the user, so it is responsibility of the user to conform to the copyright laws.

Terms and conditions will be created to explain the user in detail the legal issues related with uploading copyrighted music to the application without permission or without complying with the legal exceptions for this. The user will need to accept the terms and conditions to be able to use the app.

**Please summarise any relevant social or environmental issues**

Accessibility and Inclusivity: The app will be design with accessibility in mind, making it usable for individuals with disabilities. Special attention will be paid to individuals with vision impairments who need a high contrast between font and background, or the ability to make the font and chords larger.

Fair Business practices: We will implement fair business practices in our app's monetization strategies. We will avoid exploitative practices like overloading the user with advertising, and we will provide a transparent and fair exchange between the value provided and the price of the premium version of our app