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| **UFCFHQ-45-3 Comprehensive Creative Technologies Project:**  **Initial Proposal** | |
| Student Name: | Luke Hammond |
| Student Number: | 21013675 |
| Award: | Digital Media |
| Provisional project title: | Transferrable UI Across Game Platforms |

# Description

My project will outline the importance of a transferable User Interface (UI) system for games between platforms. In this case the UI will be exclusive to the menus but will take into account Gaming Experience (GX) and User Experience (UX). As someone who plays games, I can empathise with how frustrating it can be to move from one platform to another; “not understanding the differences between these platforms can cause difficulties and dissatisfaction for the end users” (Mori, 2019).

Figure 1 - Image showcasing Genshin Impact UI on PC compared to Mobile.

Therefore, I aim to recommend an improved UI, specifically a menu, for a pre-existing game that is available across multiple platforms. Ultimately, I want my work to be viewed as a recommendation, that is based on evidence and user testing, to be used as a tool to aid developers in creating an easily transferrable interface for the main methods of gaming: Console, PC and Mobile.

**Deliverables/Outputs:**

* Documentation of User Testing
  + Transcripts & data visualization
* Wireframes
* Prototype Created in Figma
* Progress Diary
* Recommendation Documentation
* Report
* Explainer Video and Script

# Background

There is little research into this field, for that reason I view this as an opportunity to produce work for a low populated field and hopefully stand out with my discoveries. However, with the few works I did find, they helped guide me in a direction I could expand upon the research they have undertaken as well as find my footing in the field with my own project.

A diagram of a process

Description automatically generatedThis will be a key principle throughout my work and is a reflection of the “Iterative Cycle of Human-Centred Design” as shown in *Figure 2,* to find the root issue and make multiple solutions. One such example of this from my research is Peacocke. They performed user testing for first-person shooter games, in which they had participants play numerous games with an element of the game changing each time, constantly repeating the testing and observation phase of their research.

Figure 2 - Iterative Cycle of Human-Centred Design

Moreover, the report opened my eyes to other factors of consideration such as diegetic vs non diegetic displays; “good design is actually a lot harder to notice than poor design… the design is invisible” (Norman, 1998). In Peacocke’s work they gave an outline of their user testing, which has had influence on my methodology. However, mine will incorporate new additional factors, such as the use of focus groups and surveys for more quantitative research: “Design is really an act of communication, which means having a deep understanding of the person with whom the designer is communicating” (Norman, 1998).

In addition to Peacocke’s work was Hana Mori’s report on “Multi-Platform Game UI Design”. This report is the closest artifact I have found in correlation to my own project. Within it, is an abundance of critical analysis which I aim to utilise as secondary research. This will help showcase the significance of my artifact and the importance of my project with its accessibility for other devices, “If any of us can’t use a Design, then it is exclusive, pure and simple” (Moore, 2023).

# Objectives

**Project Objectives: (What do I want to do? What is it I am doing?)**

* Create an effective and accessible UI
* Collect and record data from participants
* Drawing conclusions from research
  + Create visual representation of data
* Effectively communicating findings
* Create an intricate wireframe
* Recommendation documentation
* Final output report

**Research Objectives: (What research do I want to achieve?)**

* Research into effective UI for video games
* Research into accessibility for UI in video games
* Effective UI for each platform
* Expand understanding of user testing methods

**Learning Objectives: (What do I want to learn by the end of this project?)**

* How to utilise Figma efficiently and effectively
* Process for creating an accessible UI
* How to perform informative user testing

# Methodology

This project will be a hybrid of qualitative and quantitative research. For my quantitative research I want to create a survey to gather more minor information to aid in shaping questions for interviews and find key focal points for the artifact. Therefore, my qualitative research will involve interviews as well as focus groups for more in-depth information after participants have partaken in recorded sessions of playing games. This will give insight into what a collective think together, “focus groups often bring out users’ spontaneous reactions and ideas” (Nielsen, 1997).

An integral part of my methodology is the user testing; I will have participants play a variety of games on different consoles before ultimately playing one title on numerous devices. While participants play, I will have setup an eye tracker as well as have them speak their thoughts aloud to follow their process. The addition of an eye tracker means I can analyse what decisions people were making when perusing the menu while speaking aloud “serves as window on the soul, letting you discover what users really think” (Nielsen, 2012). The data I collect will help me in wire framing my work and be a great addition of help alongside established UX laws.

Subsequently, I will combine both my primary and secondary research which will aid in creating a wireframe for a pre-existing game on paper, before transferring it to Figma. Throughout all these steps I will have participants trial my work for a consistent stream of feedback to create the best interface. My final output should be a reflection of my growth in using Figma and my understanding of accessibility within a UI.

This methodology will be a grand showcase of my UX skills accumulated since starting Digital Media, as I will be displaying my comprehension on a multitude of theories. As well as my understanding of more practical skills; for example, user testing, data matrices, etc. Additionally, I will be incorporating other teachings from previous modules such as Graphic and Web Design for my understanding of accessibility in creating content.

# Specialist Resources and Support Required

I will be using Figma and an eye tracking software. No support will be required.

# Project Plan

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| **Month** | **Task** | **Days** |
| October | Submit initial Proposal  Submit Proposal | 1  1 |
| November | Analyse Games  Create Survey  Create Tasks for Participants  Create a Contract and GDPR Form  Conduct Tests, Interviews and Focus Group | 3  2  2  1  18 |
| December | Visualise Data  Research into UX Laws  Wireframing | 9  3  7 |
| January | Design Poster  User Testing  Figma  Submit Poster  Poster Presentation | 7  3  14  1  1 |
| February | User Testing  Data Visualisation | 14  3 |
| March | Figma  Report | 7  21 |
| April | Report  Video  Submission of Project | 21  3  1 |
| May | Viva | 1 |

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