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| **COSC2653 User-Centered Design** |
| COSC2653 - Assignment 2 06/02/2022 |
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## Part 1: Design Document

### **Introduction**

The goal of this report is to correctly identify the clients (“**Jewelry Co**”) requirements and goals for the application, identify in detail the intended user groups of this application, these details will include the users’ needs and goals, this information will then be used to generate personas for the user groups. This information will then be used to assist in the design of wireframe examples of the application and long term will be used to create a functional prototype of the application to present to the client.

Our client a major jewellery retail agency, **Jewelry Co** has recently partnered with one of the biggest logistic companies in the world; We have been commissioned to design and develop a mobile application that allows users to quickly purchase and deliver customized gifts to anyone anywhere within 20 countries.

The design requirements supplied by the client are as follows:

1. During purchases, the client needs their customers to be able to customize the jewellery with engravings on the jewellery itself and the gift boxes.
2. Customers can also craft gift messages to be included with the delivery card.
3. Both the customers and recipients (if not secret) can easily track their gifts until the completion of the delivery.
4. ***Optional:*** Customers can view their order history and accrue loyalty points

The core goal of our client is to reach customers in their targeted 20 countries to receive jewellery purchased and customized by anyone in any country around the world as gifts or if they are in one of the 20 countries to purchase jewellery for themselves, to accomplish this goal the application must meet 3 or more of the clients' design requirements whilst maintaining a high level of usability for the end-user, for the application to be considered successful by our client.

**Jewellery Co** has not supplied or indicated a name that they wish to use for the application, the application henceforth will be known as ***Jewelry Co Online.*** Until such time the client wishes to supply a name of their choice for the application.

**Prototype URL:**<https://www.figma.com/file/4WH8B1a3sVSE3dtZMnqtFP/Phototype?node-id=0%3A1>

### **User Groups**

The target user groups of the application are online shoppers, however, from the research, this can be broken down into age groups and quite possibly group by purchase type being a self-purchase or a gift, however, more data is available for age groups.

The bulk of the e-commerce Jewelry purchases surveyed in 2020 was made by those born between 1981 – 2012 (Millennials and Generation Z) as they are more willing to make large purchases online ***[Reference 1];*** These circumstances seem unaffected by the COVID-19 restrictions forcing people to make more purchases online, as further research shows that online jewellery sales have increased on an average of 8.64% annually since 2012 – 2019 and stagnated between 2020 and 2022. ***[Reference 2]***

|  |  |
| --- | --- |
| Online Shopper – Aged 18 – 41 | * Millennial or Generation Z * Highly knowledgeable in the use of mobile technologies * Within the traditional age range for marriage * Prone to making purchases online * Most likely has a PayPal account |
| Online Shopper – Aged 42 – 65+ | * Basic to moderate knowledge in the use of mobile technologies * Will make purchases online if convenient * Generally, Prefers instore purchases * May, or may not have a PayPal account |
| Online Shopper – All Age Groups | * Aged: 18 – 65+ * Purchase Gifts and/or for themselves * Owns a Credit Card or Visa Debit Card * Lives in or know someone in 1 or more of the 20 deliverable locations * Owns a mobile device capable of running the application * Has internet access |

### **Personas**

From the information used to identify the application target user groups, two personas were generated as example users.  
  
Names for the example users were randomly generated. ***[Reference 3]***Photos for example users were AI-Generated and are not photos of real people ***[Reference 4]***

|  |  |
| --- | --- |
| Penelope Ramirez | Winifred Gardiner |
| A person with brown hair  Description automatically generated with low confidence | A person with a mustache  Description automatically generated with low confidence |
| |  |  | | --- | --- | | **Age:** | 20 | | **Gender:** | Female | | **Marital Status:** | Single | | **Dependents:** | None | | **Accommodation Status:** | Lives with parents | | |  |  | | --- | --- | | **Age:** | 34 | | **Gender:** | Male | | **Marital Status:** | Married | | **Dependents:** | Wife, 7-Year-old Daughter, 8-Year-old Son | | **Accommodation Status:** | Mortgage | |
| Backstory: “Penelope is a full-time University student studying a Bachelor of Information Technology at RMIT University and works part-time at the local newsagent.”  Goals: Penelope is looking to get her mother a birthday present; a bracelet with an engraving “Your Loving Daughter”  Frustrations: Penelope is a full-time university student and when not at university is busy working at the newsagent. Leaving her very little time to visit a store to browse for the gift. | **Backstory: “**Winifred is employed full-time as an “Information Security Engineer, Winifred travels 1hr and 30min for work.” **Goals:** Winifred’s 10th anniversary is coming up and would like to find something special for his wife.  **Frustrations:** Winifred works long hours and has lots of meetings though out the day limiting the time he can spend looking for a Gift for his anniversary in person, stores within walking distance to his work don’t have anything he likes. |
| Attributes: • Highly knowledgeable in the use of mobile technologies • Owns a Credit Card or Visa Debit Card • Prefers to make purchases online | **Attributes:** •Highly knowledgeable in the use of mobile technologies •Has a PayPal Account • Prefers Instore Purchases |

### **Context Scenarios**

**Penelope Ramirez Scenario**

Penelope’s mother’s birthday is in two weeks, she has a little spare time after getting home from the university before she must start her shift at the local newsagent near where she lives, so she decided to purchase some jewellery for her mother. She opens the “Jewelry Co Online” application on her phone and starts to look for a bracelet that she believes her mother would like.

After a few minutes she finds a popular item that her mother would like, she clicks on the item and is presented with options to customize the item with an engraving, she enters the text into the engraving field “Your Loving Daughter” the next field is Gift Box Message, she enters the text into the Gift Box Message “Its Your Birthday!” the final field is for the Gift Message Card, to which she enters the text “Dear Mum, Hope you enjoy the gift, Love you always, Penelope XOXOX”.

Penelope then selects the “Checkout” button at the bottom of the app, the app responds by moving to the page “Delivery Information” Penelope is presented with 6 fields relating to the shipping destination of the gift, Penelope enters her mother's shipping information, the next question is related to whether she wishes to be anonymous or attach her information as who sent the gift, Penelope selects her details which the application already has attached to her profile and clicks on the “Continue” button.

Penelope must now review and confirm her order. Penelope is happy with the order and clicks on the “Proceed to PayPal” button. NOTE: this next task is taken care of by PayPal and not part of the application.

After the PayPal checkout is complete the application notifies Penelope that her order was successful and returns her to the main homepage of the application.

**Winifred Gardiner Scenario**

Winifred finds himself with a spare 20 minutes between meetings, with his upcoming anniversary and recent salary increase he decides to purchase his wife some jewellery and buy himself a new dress watch. He proceeds to open the “Jewelry Co Online” application on his smartphone and begins to browse for a necklace for his wife, after a few minutes he finds a necklace that he likes and that he believes his wife would like too, with a love heart pendant.

He selects the item on the application and is presented with options to customize the item with an engraving, he enters the text into the engraving field “W4J” (Winifred for Jane) the next field is Gift Box Message, He enters the text into the Gift Box Message “One decade down; forever to go” the final field is for the Gift Message Card, to which he enters the text “Since the first day we met I’ve been madly in love with you. Even after 10 years that love hasn’t wavered for a second. Happy anniversary my amazing wife!”.

Winifred then selects the “Add to Cart!” button, the application then sends him back to the applications main page and presents him with a confirmation message “Item Successfully Added to Your Cart!”, Winifred selects “OK” to acknowledge the notification.

Winifred continues to browse for watches, after a couple of minutes makes his selection and he is presented with options to customize the item, as Winifred only wants to have an engraving on the watch, he only enters text into the engraving field; “Winifred Gardiner, 0412 321 321” leaving the remaining fields empty he clicks on the “Checkout” button.

The app responds by moving to the page “Delivery Information” Winifred is presented with 6 fields relating to the shipping destination of the gift, Winifred enters his works shipping information so he can surprise his wife, the next question is related to whether she wishes to be anonymous or attach his information as who sent the gift, Winifred selects his details which the application already has attached to his profile and clicks on the “Continue” button.

Winifred must now review and confirm his order. Winifred is happy with the order and clicks on the “Proceed to PayPal” button. NOTE: this next task is taken care of by PayPal and not part of the application.

After the PayPal checkout is complete the application notifies Winifred that his order was successful and returns him to the main homepage of the application.

### **Key Path Scenarios**

#### Penelope Ramirez Scenario)

#### Text, application Description automatically generated

*1. Penelope Selects the Item she wishes to purchase for her mother*

#### Text, letter Description automatically generatedText Description automatically generatedText, letter Description automatically generatedA screenshot of a phone Description automatically generated with medium confidence

*1. Penelope enters the “Engraving” text “Your Loving Daughter”*

*3. Penelope enters the “Gift Message Card” text “*Dear Mum, Hope you enjoy the gift, Love you always, Penelope XOXOX”

*4. Penelope clicks on the “Checkout” button*

*2. Penelope enters the “Gift Box Message” text “*It’s Your Birthday!”

*2. Penelope selects her address rather than being anonymous*

*3. Penelope clicks on the “Continue” button*

*1. Penelope enters her mother’s shipping details in 6 supplied fields*

*2. Penelope clicks the “Proceed to PayPal” button.  
  
NOTE: This performs out of application tasks, that are not demonstrated here.*

*1. Penelope Reviews her Order*

1. Penelope is returned from the “PayPal Checkout” to the application and presented with a confirmation dialog.

Penelope clicks the “OK” button

Text, application

Description automatically generated

Penelope is then returned to the Main/Home page of the application.

#### Winifred Gardiner Scenario) Text, application Description automatically generatedText, letter Description automatically generatedDiagram Description automatically generated

*1. Winifred Selects the Item he wishes to purchase for his wife*

4. Winifred clicks the “Add to Cart!” button

3. Winifred enters the “Gift Message Card” text “Since the first day we met I’ve been madly in love with you. Even after 10 years that love hasn’t wavered for a second. Happy anniversary my amazing wife!”.”

*2. Winifred enters the “Gift Box Message” text “*One decade down; forever to go*”*

*1. Winifred enters the “Engraving” text “*W4J*”*

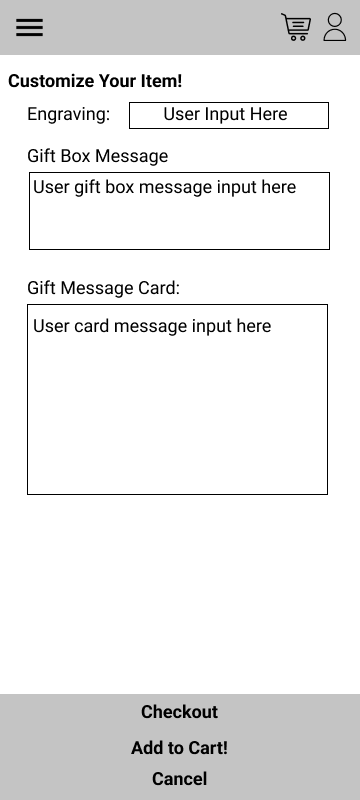
1. Winifred is presented with a confirmation dialog confirming the item was added to the cart.

Winifred clicks on the “OK” button

Text, application

Description automatically generated

1. Winifred Selects the Item she wishes to purchase for himself (Watch)



4. Winifred clicks on the “checkout” button

1. Winifred enters the “engraving” text “Winifred Gardiner, 0412 321 321”

3. Winifred leaves the “Gift Message card” text empty

2. Winifred leaves the “Gift Box Message” text empty

Text

Description automatically generatedText

Description automatically generatedDiagram

Description automatically generated

3. Winifred clicks on the “Continue” button

2. Winifred selects his address rather than being anonymous

1. Winifred enters his works shipping details in 6 supplied fields

2. Winifred clicks the “Proceed to PayPal” button.

NOTE: This performs out of application tasks, that are not demonstrated here.

1. Winifred reviews his order

1. Winifred is returned from the “PayPal Checkout” to the application and presented with a confirmation dialog.

Winifred clicks the “OK” button

Text, application

Description automatically generated

Winifred is then returned to the Main/Home page of the application.

### **Design Principles**

Colours, layout, button styles

## References:

* **Reference 1 – [Online] Jewelry Ecommerce Statistic and Insights:**<https://blog.clear.sale/jewelry-e-commerce-statistics-and-insights> **[Accessed: 01/02/2022]**
* **Reference 2 – [Online] Online Jewelry Sales Statistics (2011-2022):**

<https://www.oberlo.com/statistics/online-jewelry-sales-statistics> **[Accessed: 05/02/2022]**

* **Reference 3 – [Online] Quick Name Generator:**

<https://www.name-generator.org.uk/quick/> **[Accessed: 01/02/2022]**

* **Reference 4 – [Online] ThisPersonDoesNotExist - Random AI-Generated Photos of Fake Persons:**

<https://this-person-does-not-exist.com/en> **[Accessed: 01/02/2022]**