Software Requirements Specification

Team:   AR Interior Design

Project Title:  Augmented Space

Members:

1. Bryan Lor
2. Kassem Ataya
3. Jessee Horton
4. Rory Lange
5. Mohammad Sulaiman
6. Safin Hossain

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| **Meetings date** | **Participants** |
| Tuesdays 2pm -> 5pm | Rory Lange (3:45 – end), Mohammad Sulaiman, Bryan Lor, Jessee Horton, Kassem Ataya, Safin Hossain (4 – end) |
| Sundays 7pm -> 10pm | Rory Lange, Jessee Horton, Mohammad Sulaiman, Bryan Lor, Jessee Horton, Kassem Ataya, Safin Hossain |

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| **Stakeholders** | **Requirements** |
| Furniture Businesses | FR15. Customer Review  FR14. Customer Ratings  FR4. Virtual product data base |
| General Users | FR13. Favorite products  FR7. Camera Device access  FR6. Product Catalog/Store UI navigation  FR5. Transition between the item catalogs and AR view  FR2. Virtual Product navigation  FR1. Placing virtual Products in their environment |
| All | FR.11 Filtering product category by brand  FR10. Filtering product category by stores  FR9. Filtering products by cost and rating  FR8. Redirect to the main page after login.  FR3. Customer Log In/Out  FR12. Create an Account  NR5. Security  NR4. Privacy  NR3. Usability  NR2. Application availability  NR1. Performance |

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| **FR1. Placing virtual Products in their environment** | | |
| **Goal: Users will have a rear camera view of placing virtual products into their rooms or real space.** | | |
| **Stakeholders: Customers** | | |
| **Description: When a customer selects a product or store, he/she should be able to virtually display and place the product in their real space using the camera.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 10** |

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| **FR2. Customers navigating through products** | | |
| **Goal: Once a customer selects the desired store and the product, similar products should be accessible simply through the application as well.** | | |
| **Stakeholders: Customers** | | |
| **Description: Incase the customer wants to check out similar products in the store he should be able to easily switch through these products while he has his camera open.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 4** |

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| **FR.3 Customer Log In/Out** | | |
| **Goal: Customers should be able to log in and log out of the application.** | | |
| **Stakeholders: Customers** | | |
| **Description: Customers will have the ability to create and log in or out of the application for privacy reasons.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 10** |

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| **FR4. Virtual product data base** | | |
| **Goal: Users will have a rear camera view of placing virtual products into their rooms or real space.** | | |
| **Stakeholders: Customers** | | |
| **Description: When a customer selects a product or store, he/she should be able to virtually display and place the product in their real space using the camera.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 10** |

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| **FR5. Transition between the item catalogs and AR view** | | |
| **Goal: Customers should be able to transition smoothly from the AR camera view back into the catalog view.** | | |
| **Stakeholders: Customers** | | |
| **Description: Once a customer is done using the AR camera mode he/she can easily go back to the store catalog they are currently in.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 5** |

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| **FR6. Product Catalog/Store UI navigation** | | |
| **Goal: Ensure a variety of different products are displayed in the application** | | |
| **Stakeholders: Customers** | | |
| **Description: Have a display section where users can go through a bunch of stores in the application with ease.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 8** |

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| **FR7. Camera Device access** | | |
| **Goal: The application can access the device's camera.** | | |
| **Stakeholders: Customers** | | |
| **Description: Application should be able to access the user's device camera when in need of testing out a product.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 10** |

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| **FR8. Redirect to the main page after login.** | | |
| **Goal: Once the user has logged into his account he should be directed to the main page in the application** | | |
| **Stakeholders: Customers** | | |
| **Description: When a customer logs into the application the first thing he should be seeing is the list of stores within the database.** | | |
| **Origin: Based on the initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 7** |

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| **FR9. Filtering products by cost and rating** | | |
| **Goal: Filtering through products when it comes to price range, rating.** | | |
| **Stakeholders: Customers** | | |
| **Description: Users should be able to filter through products easily based on price and rating.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 3** |

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| **FR10. Filtering product category by stores** | | |
| **Goal: User should be able to filter through stores** | | |
| **Stakeholders: Customers** | | |
| **Description: Customers should be able to go through store names and filter them based on the products they offer.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 2** |

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| **FR.11 Filtering product category by brand** | | |
| **Goal: Products filtered by brand by user.** | | |
| **Stakeholders: Customers** | | |
| **Description: Users have the ability to filter the products based off brand.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 1** |

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| **FR12. Create an Account** | | |
| **Goal: Users will have the option to select a button that lets them create an account incase they do not have one.** | | |
| **Stakeholders: Customers** | | |
| **Description: Incase the user does not have a registered account he will be able to navigate to a screeen that allows him to.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 6** |

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| **FR.13 Favorite products** | | |
| **Goal: Users will have the ability to favorite and save products.** | | |
| **Stakeholders: Customers** | | |
| **Description: Customers can keep track of saved products. This can then later be viewed easily.** | | |
| **Origin: Based on the initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 5** |

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| **FR14. Customer Ratings** | | |
| **Goal: Customers can leave 5-star ratings on products.** | | |
| **Stakeholders: Furniture Business** | | |
| **Description: You should be able to rate products and get a final product score on a 5-star scale.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 3** |

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| **FR15. Customer Review** | | |
| **Goal: Customers can leave a review on the product.** | | |
| **Stakeholders: Furniture Business** | | |
| **Description: Users should be able to leave a review/comment after purchasing the product.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 1** |

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| **NR1. Performance** | | |
| **Goal: Users should experience seamless, minimal lag navigating through menus and interacting with products in the AR space.** | | |
| **Stakeholders: Customers** | | |
| **Description: Ensure that when importing objects there is minimal lag and performance drops within the app. Users should have a responsive experience displaying products in AR.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 8** |

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| **NR2. Application availability** | | |
| **Goal: An online connection will be required to run the app. The backend should have a 99.95% uptime in correspondence to the database.** | | |
| **Stakeholders: Customers** | | |
| **Description: Application should be reliable available and able to connect to. The application should perform around a 99.95% uptime availability based on the database uptime.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 10** |

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| **NR3. Usability** | | |
| **Goal: App should be easy to learn with little screen clutter** | | |
| **Stakeholders: Customers** | | |
| **Description: Create a simplistic yet rich design for the customer that is feature rich, performs well, and is consistent throughout the app.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 10** |

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| **NR4. Privacy** | | |
| **Goal: Users information should be kept to a minimal** | | |
| **Stakeholders: Customers** | | |
| **Description: The application should only store required sensitive user information about passwords and login info.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 10** |

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| **NR5. Security** | | |
| **Goal: Backend should be properly secured and restricted.** | | |
| **Stakeholders: Customers** | | |
| **Description: Only specified users should have access to backend and API calls. Best practices should also be followed to keep the information secure.** | | |
| **Origin: Based on initial project specification document, team members came up with this description during the first meeting.** | | |
| **Version: 1.0** | **Date: 02/04/2024** | **Priority: 10** |