System Requirements

iClothe

Version 1.0, Mar 30th 2021

Document Revision History

Ref#	Content	Revised By	Date	Version
1	Initial Draft	Cameron	Mar 10th 2021	0.1
2				

Distribution List

	Name	Title	Department
	Carrie Pajotte	Instructor	BA Case Study 2 – BUS4062

Table of Contents

1.0 – Introduction

In developing systems requirements, we needed to expand our elicited requirements for our application into our system requirements model. We

1.1 – Overview

This document describes the user stories and use cases developed from our business requirements documentation and the adjustment we made at that stage. We will use this document to inform our final requirements design and high fidelity mock up.

2.0 – User Story and User Story Map

We have created several use cases along with a number of user stories that we can consolidated into a user story map. This will carry forward into our final working prototype.

2.1 – Use Case

The below use cases have been developed one per team member.

UC01 Input Measurements – Iris Fabros

Name	Input Measurements	Version	01
Description	This use case describes the functionality for taking and getting accurate measurements for the purpose of virtual try-on		
Actors	Primary	Secondary	
	User	N/A	
Pre-Conditions	1. User must agree to ''terms and agreements'' 2. User must allow camera access 3. User must know height and current weight		
Post-Conditions	*Successful* 　　User able to get accurate measurements *Unsuccessful* 　　Detection errors from body image masking		
Basic Flow			
1	System displays terms and agreement		
2	User agrees to allow camera access		
3	System displays camera placement instructions		
4	User get started and place camera in a right angle guide		
5	System displays upper and lower body measurement position and masking instructions		
6	User change into tight fitting garment and stay in position 6.1 Unable to scan proper upper/lower body position 6.2 Able to inpaint correct body position and proceed		

7	System scans and ask for personal details
8	User fills details
9	System calculates measurements
10	User saves generated measurements
11	Use case ends

Alternate Flow- AF01

6.1.1	This use case starts when user incorrectly align upper and lower body in front of camera
6.1.2	System detect errors and asks user to adjust body position
6.1.3	User adjusts to position guide
6.1.4	System scans and validates
6.1.5	Go to BF08

Exception Flow

1	N/A

Business Rules

BR01	If user inputs inaccurate weight and height, the system does not provide sufficient accuracy and obtain best results
BR02	If the user wears improper fitting garment, the system does not guarantee undistorted fitting results

UC02 Create Account – Thufayle Mohamed Jamal

Name	Create Account	Version		01
Description	This use case describes the functionality of user creating an account with iClothe for the first time.			
Actors	Primary		Secondary	
	User		N/A	
Pre-Conditions	1. The user should have an email ID 2. The user can also have a Facebook account, Apple ID			

Post-Conditions	Successful
	    User has created a profile successfully with his/her preferences
	Unsuccessful
	    Profile creation has failed. Please check the email/password.			

Basic Flow, BF01- Create a profile

1.1	User visits iClothe page/application on his/her device
1.2	System displays the home screen
1.3	User selects create account button
1.4	System displays a list of options to create account with options such as Sign in with Facebook, Apple ID, Email 1.4.1 Valid login credentials, go to BF01, step 1.5 1.4.2 Invalid login credentials, go to step AF01- In valid login credentials
1.5	System has logged the user in successfully
1.6	System asks the user's preferences towards location access 1.6.1 Allow location access, go to BF01, step 1.7

	1.6.2 Don't allow location access, go to BF01, step 1.7
1.7	System asks the user's preferences for notifications to get recent trends on the app
	1.7.1 Allow notifications, go to BF01, step 1.8
	1.7.2 Do not allow notifications, go to BF01, step 1.8
1.8	Systems has created the user's profile successfully
1.9	Use case ends
Alternate Flow, AF01- Invalid login credentials	
2.1	This use case starts when the user enters invalid login credentials.
2.2	System asks to check the credentials
2.3	System sends a reset link to user
	2.3.1 System sends a reset link to the user's email if they log in with Facebook
	2.3.2 System sends a code to the user's phone number if they log in with email, Apple ID
2.4	System validates the code
	2.4.1- System cannot validate the code, go to AF01, step 2.1
2.5	System prompts the user to enter new password
2.6	User enters a new password
2.7	System validates the new password
	2.7.1 System cannot validate new password, go to AF01, step 2.5
2.8	User is logged in, go to BF01, step 1.5
Exception Flow EF01- User does not create an account	
3.1	The user aborts the login process. The account is not created. The use case ends
Business Rules	
BR01	User's email, Facebook, Apple ID account must be valid
BR02	Passwords must match

UC03 Delete profile – Nitin Teotia

Name		Delete profile	Version	01
Description		This use case describes the functionality of user deleting his/her profile from iClothe.		
Actors		**Primary**	**Secondary**	
		User	N/A	
Pre-Conditions	1. The user should have an existing account. 2. The user should be logged in on the application.			
Post-Conditions	1. User has successfully deleted his profile. 2. User is unsuccessful in deleting the profile.			
Basic Flow				
1	This use case starts when the user wants to delete their profile from iClothe.			
2	User selects 'Delete profile' option from 'Profile Page'.			
3	System prompts dialogue box with 'yes' & 'No' option. 6.1 If user clicks 'Yes' then proceed to step 7 using the BR01.			

	6.2 If user clicks 'No' then go back to AF 2.1.
4	System displays the 'create/log in page'.
Alternate Flow	
2.1	System displays the Home page.
Exception Flow	
1	
Business Rules	
BR01	The user must be able to delete data from application.

UC04 Share Look – Burcu Atik

Name	Share Look		Version	01
Description	This use case describes functionality of sharing look with friends. User will be able to choose the looks that saved, then send to his/her friends.			
Actors	**Primary**		**Secondary**	
	User		User's Friends	
Pre-Conditions	1. User must have an account on iClothe. 2. User must have at least one Saved Look. 3. User must have at least one friend that has a valid account on iClothe.			

Post-Conditions	*Successful*
	         User sent Saved Look to Friend.
	 Unsuccessful
	          User cannot share the Look.			

Basic Flow BF01 – Share a Look				
1	This user case starts when user decides to share a Saved Look with their friends.			
2	User goes to Share page.			
3	System display Share screen.			
4	User searches for a Look between Saved Looks.			
5	System displays the search results. 6.1 No Match, go to BF01 – Step 4: User searches for a Look between Saved Looks.			
6	User selects the Look.			
7	User goes to select a friend.			
8	System displays all friends that has a valid iClothe account.			
9	User selects the friend.			
10	User requests to send the Look.			
11	System sends the look to the selected friend.			
12	Systems displays a message conforming the look is sent. 13.1 System is not able to send the look to friend, go to AF01 - Not Receive Message from Friends.			

13	Use case ends.

Alternate Flow AF01 – Not Receive Message from Friends

2.1	This user flow starts when the user sends a Look to Friend who turned off the receive message feature on iClothe.
2.2	Systems displays a message conforming the look cannot sent.
2.3	This flow resumes at step 9 of the basic flow.

Exception Flow

3.1	None

Business Rules

BR01	If user doesn't login iClothe for three months, the account will be deleted.

UC05 Purchase Item – Cameron Dyke

Name	Purchase Item		Version	01
Description	This use case describes the functionality for purchasing an item from the look page			
Actors	**Primary**		**Secondary**	
	User		Brand Partner	
Pre-Conditions	1. User must be logged in 2. Item must be included in the look view			

Post-Conditions	*Successful*
	    Items in look are marked as purchased
	Unsuccessful
	    Items in look are not marked			

Basic Flow

1	This use case starts when user decides to purchase an item
2	User selects the item they want to purchase from the item tray
3	System presents item options
4	User selects purchase item
5	System provides confirmation of current size, color and other attributes
6	User accepts
7	System opens item purchase web view

Alternate Flow

5.1	User selects modify item
5.2	System provides all modification options
5.3	User inputs modifications
5.4	System provides confirmation message
5.5	User accepts
5.6	System opens item purchase web view

Exception Flow

N/A	
Business Rules	
BR01	User must be able to purchase items from the look view
BR02	Purchases must be completed by brand partner

UC06 Search Product - Savneet Singh Baluja

Name		Search Product	Version	01
Description		This uses case describes the functionality, way to Search for the Product and options to save it as favourites.		
Actors		**Primary**	**Secondary**	
Pre-Conditions		1. User must have an account on iClothe and must be logged in to access the app. 2. User must prompt to the Homepage and then search bar.		
Post-Conditions		Successful-User get the desired search result Unsuccessful-User was unable to get the desired search result.		

Basic Flow	
1	This use case starts when user decides to go to 'Seach Product' page.
2	User go to the 'Search Product' and types in the desired product.
3	System Shows the 'Search Product' screen.
4	User inputs Desired 'Search Product'.
5	System then shows the Desired 'Product Results'.
6	This use case ends here.
Alternate Flow	
2.1	Entered 'Search Product' did not match Product available on application.
Exception Flow	
1	
2	
Business Rules	
BR01	User can only select search products from the i-clothe website given 'department' list.
BR02	The saved favourites and search history disappears after 1 Month.

UC07 Delete Look – Sahil Patel

Name		Delete Look	Version	01
Description		This use case describes the functionality to delete a look that was previously saved by the user		
Actors		**Primary**	**Secondary**	
		User	N/A	
Pre-Conditions		1. The user should have an iClothe account.		

| | 2. The user should be logged in to the application. |
| | 3. The user must have at least one look that is saved. |

Post-Conditions	Successful
	User has deleted the look successfully.
	Unsuccessful
	User cannot delete the look.

Basic Flow-BF01- Delete look

1	Use case starts when user selects 'delete look' from the manage look page.
2	System displays the saved looks of the user.
3	User selects a particular look.
4	System highlights the selected look.
5	User selects 'delete look' from the options provided.
6	System displays a dialogue box with 'yes' & 'no' options.
	6.1 User selects "yes" and goes to BF01, step 7.
	6.2 User selects "no" and goes to AF01, step 2.1
7	System displays a confirmation of 'The look is deleted'.

Alternate Flow AF01

2.1	This alternate flow starts when user selects BF01, step 6.2
2.2	System takes the user to manage looks page

Exception Flow

1	N/A

Business Rules

BR01	User should be able to access his saved looks

2.2 – User Story

The following table contains user stories developed for each team member (five per person) based on our elicitation.

Author	User Story	Acceptance Criteria	ID
Cameron	As a user of iClothe I want to be able to show others the looks that I have created	Ability to share looks Ability to add friend to share options	US01
Cameron	As a user of iClothe I want to be able to adjust the measurements imputed into my profile whenever I need to	Ability to access inputted measurements in profile Ability to adjust input measurements after initial set up	US02
Cameron	As user of iClothe I want to be able to add as many items as I like into my look view so that I can quickly	Ability to add multiple items of the same type to the item tray in looks Ability to swap between items within	US03

	toggle between items	the look view	
Cameron	As a user of iClothe I want to have the option to save a number of different looks while I decide on my purchase	Ability to save looks Ability to retrieve saved looks Ability to save multiple looks Ability to brows saved looks	US04
Cameron	As a user of iClothe I want to have the option to remove any personal data from the application if I decide to delete my profile.	Ability to delete profile data	US05
Thufalye	As a user of iClothe, I want to be able to create an account with multiple sign in options	Ability to choose different accounts to sign up with (Facebook, Apple ID, Gmail)	US06
Thufalye	As a user of iClothe, I want to be able to allow location access so that i can know which products are available closer to me	Ability to set location access on settings	US07
Thufalye	As a user of iClothe, I want to be able to allow notifications if there are new products that match my preferences	Ability to set notification preferences according to my likes.	US08
Thufalye	As a user of iClothe, I want to be able to delete the account if I dislike the app and its features	Ability to delete all my saved data from the application including my personal information	US09
Thufalye	As a user of iClothe, I want to be able to share the link to the app with my friends	Ability to share the app download link through text (SMS), iMessage, Facebook, Email, Whatsapp.	US10
Adeel	As an iClothe user, I want to be suggested items based on my previous purchases	Ability to link previous items to items in store Ability to suggest items to user	US11
Adeel	As an iClothe user, I want my friends to be able to show me looks that they like	Ability to receive looks from users	US12
Adeel	As an iClothe user, I want to be notified of any sales that take place on items I have favourited	Ability to target sale items Ability to suggest items to user	US13
Adeel	As an Clothe user, I want to be notified of any changes to the privacy settings of the app	Ability to notify user	US14
Adeel	As an iClothe user I want to be able to add different make up hues to my look so that I can compare shades	Ability to select multiple items of the same type to the face look screen Ability to swap makeup items in look	US15
Burcu	As an iClothe user, I want to able to share my saved looks with my iClothe registered friends.	Ability to send the Look I saved on iClothe to my friends.	US16

Burcu	As an iClothe user, I want to able to edit my saved looks before sending my iClothe Registered Friends.	Ability to make some changes on the image before sending the Look.	US17
Burcu	As an iClothe user, I want to able to send invitation to my friends to join iClothe.	Ability to send the registration link for iClothe to my friends.	US18
Burcu	As an iClothe user, I want to able to see my friends who have an account on iClothe.	Ability to see the friends whom can be shared the Look.	US19
Burcu	As an iClothe user, I want to able to be sure that the look I send is successfully delivered.	Ability to know that the Look is shared is received.	US20
Nitin	As an iClothe user I should be able to send my feedback to a look shared with me so that I can share my opinion.	Ability to bring up & delete profile. Ability to delete all the profile data permanently, previously added in creating the profile.	US21
Nitin	As an iClothe user I should be able to create my new profile instantly so that I can use the application.	Ability to bring up & update info in profile. Ability to see/search relevant products according to the updates in profile.	US22
Nitin	As an iClothe user I should be able to delete my profile details so that I can leave the application permanently.	Ability to add personal info/measurements in the profile page. Ability to add a profile to start using the profile.	US23
Nitin	As an iClothe user I should be able to deactivate my profile so that I can pause on using the application.	Ability to bring up the profile. Ability to deactivate the profile from iClothe.	US24
Nitin	As an IClothe user I should be able to update my profile details so that I can see the relevant products in the application.	Ability to access the shared look of a friend. Ability to send my recommendation/feedback to a friend. Ability to share my opinion on a shared look.	US25
Iris	As an iClothe user, I should be able to try different clothes in smallest amount time	Access different categories Browse and try numerous clothes as preferred Quickly transfer into one look to another	US26
Iris	As an iClothe user, I should be able to have hassle free and shortened measuring process when updating my measurements	Change weight Input new upper/lower body measurement Show image inpainting dotted	US27

		silhouette Detect body masking position error	
Iris	As an iClothe user, I should be able to experience accurate renderings that show how a texture and fabric appear on my virtual body	Display how texture and fabric appear on a virtual body Show ''not matched'' message Show corresponding matches based on a percentage from 1-100%	US28
Iris	As an iClothe user, I should be able to mix and match and overlap clothes without warping the virtual body position	Attach clothes on top of another Apply a number of clothing types (dresses, pants, shirts, etc to the virtual body) Show body mesh detection for sufficient accuracy	US29
Iris	As an iClothe user, I should be able to get recommendations based on my complexion and style.	Save complexion type Bring up saved style and recommendations from previous	US30
Savneet	As an iClothe user, I should be able search my previous viewed items using 'previous history' option.	Ability to access previous search history and other search product recommendations.	US31
Savneet	As an iClothe user, I should be able to see the different department and suggestions of search products.	Ability to see suggestions and different departments.	US32
Savneet	As an iClothe user, I should be able to check the search products based on the high to low customer reviews/ratings.	Ability to check and sort reviews based on the given customer ratings.	US33
Savneet	As an iClothe user, I should be able to login my profile using different Social Media Accounts i.e Facebook, Google.	Ability to login through different media channels.	US34
Savneet	As an iClothe user, I should be able to filter my search items based on the Low to High Price.	Ability to sort items based on low to high price.	US35
Sahil	As a user of iClothe, I want to be able to save products of my choice so that I can see them later.	Ability to save items Ability to browse saved items	US36
Sahil	As a user of iClothe, I want to be able to delete products from saved products so that I can easily select good options for me.	Ability to browse saved items Ability to delete saved items from list	US37
Sahil	As a user of iClothe I want to be able to redo my measurements in case I make a mistake	Ability to reset look avatar measurements Ability to relaunch measurement screen	US38
Sahil	As a user of iClothe I want to be able to measure my skin tone so that	Ability to scan skin tone	US39

	I can match my colors		
Sahil	As a user of iClothe I want to be able to adjust my skin tone hue when I get a tan	Ability to adjust look avatar skin tone	US40

User Story Map:

Manage Profile	Manage Measurements	Manage Look	Manage Items	Manage Sharing	Manage Purchasing
US22	US27	US26	US32	US16	US07
US23	US28	US02	US35	US01	US13
US34	US38	US03	US36	US12	
US25	US39	US04	US37	US20	
US06	US40	US17	US31	US21	
US05		US30	US33	US18	
US09		US15	US08	US19	
US24			US11	US10	
US14					

2.3 – Mid-Fidelity Mock-ups and Storyboard

Submitted March 22nd, 2021

3.0 – Appendix

3.1 – Business Analysis Work Plan

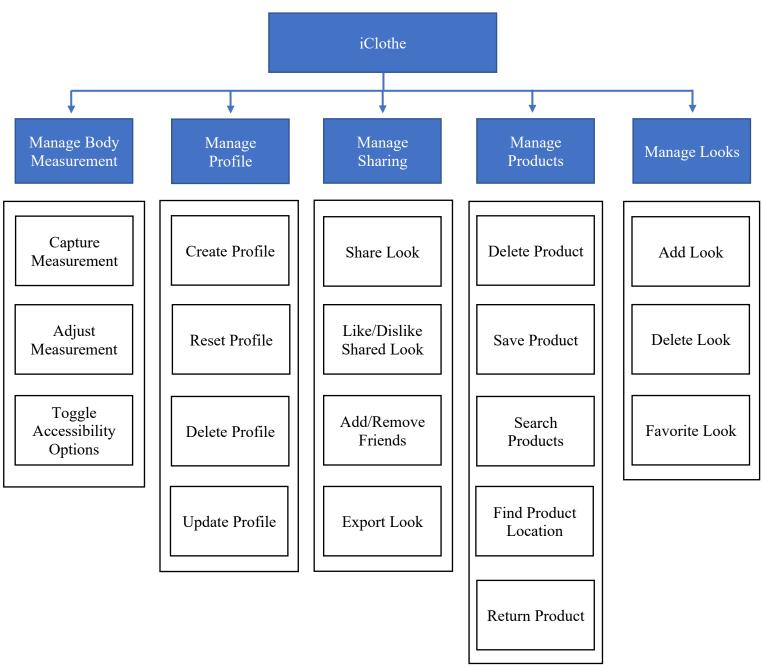| Milestone	Date	Assigned to
Project Vision - Feb 7th, 2021		
Research Competitor Products	Week of Jan 25th	Everyone
Survey Team to Ideate Product Features and Functions	Week of Jan 25th	Bureu
Analyse Results	Week of Jan 25th	Bureu
Draft Stakeholder Analysis	Week of Jan 25th	Nitin, Thufayle
Draft Business Analysis Work Plan	Week of Jan 25th	Cameron
Alignment Meeting: - Results Analysis - Product Features and Functions - Products for Comparison Analysis - Stakeholder Analysis - Business Analysis Work Plan - Product Overview - Work Plan Updates	Jan 30th, 2021	Everyone
Draft Product Features and Functions	Week of Feb 1st	Bureu, Iris
Draft Comparison Analysis	Week of Feb 1st	
Draft Product Overview	Week of Feb 1st	Nitin, Cameron
Project Vision Document Edits	Feb 5th, 2021	
Project Vision Document Review	Feb 6th, 2021	Everyone
Submit	Feb 7th, 2021	Cameron
Mobile Sketches - Mar 1st, 2021		
Alignment Meeting: - The Anatomy of Sketching - Sequential Storyboards - Mobile Scanner App - Work Plan Updates	Feb 24th, 2021	Everyone
Workshop	Feb 27th, 2021	Everyone

Draft Mobile Sketch	Feb 27th, 2021	Everyone
Mobile Sketch Review	Feb 28th, 2021	Everyone
Submit	Mar 1th, 2021	Cameron

Business Requirements - Mar 15th, 2021

Identify Research Participants	Week of Feb 8th	Sahil, Savneet
Design Questions/Methodology	Week of Feb 15th	Thufayle, Nitin
Create Research Documents	Week of Feb 15th	Everyone
Conduct Elicitation	Feb 20th, 2021	Everyone
Compile and Organize Results	Week of Feb 22nd	Iris, Bureu
Analyse Results	Week of Feb 22nd	Iris, Bureu
Alignment Meeting: - Results Analysis - Application Scope - Customer Base - Scenarios - Customer Journey - Work Plan Updates	Feb 27th, 2021	Everyone
Draft Business Requirements Document	Week of Mar 8th	Cameron, Adeel
Document Edits	Mar 13th, 2021	Everyone
Submit	Mar 15th, 2021	Cameron

System Specifications - Mar 22nd, 2021

Alignment Meeting: - User Stories - Use Cases - Mock-up and Storyboard Tools/Methodology	Mar 14th, 2021	Everyone
Draft Use Cases	Week of Mar 15th	Cameron, Sahil
Draft User Stories	Week of Mar 15th	Bureu, Savneet
Draft Story Board	Week of Mar 15th	Nitin, Iris, Adeel
Alignment Meeting: - Work Plan Updates	Mar 13th, 2021	Everyone
Workshop	Mar 20th, 2021	Everyone
Draft Mid-fidelity Mock-ups	Mar 20th, 2021	Adeel, Iris
Mid-fidelity Mock-ups Review	Mar 21st, 2021	Everyone
Document Edits	Week of Mar 22nd	Everyone
Submit	Mar 29th, 2021	Cameron

Requirements Design - April 17th, 2021

~~Alignment Meeting:~~ ~~- System Specification User Stories~~ ~~- Video Tools/Methodology~~ ~~- Work Plan Updates~~	~~Mar 28th, 2021~~	~~Everyone~~
Presentation Script	Week of Mar 29th	Savneet, Sahil
Hi-Fidelity Mock-up Draft	Week of Mar 29th	Cameron, Burcu, Nitin
Hi-Fidelity Mock-up Review	Apr 15th, 2021	Adeel, Thufayle, Iris
Presentation Filming	Apr 10th, 2021	Everyone
Presentation Edits	Week of Apr 12th	Cameron, Iris
Presentation Review	Apr 15th, 2021	Everyone
Submit	April 17th, 2021	Cameron

3.2 – Additional Content

Product Decomposition:

iClothe				
Manage Body Measurement	**Manage Profile**	**Manage Sharing**	**Manage Products**	**Manage Looks**
Capture Measurement	Create Profile	Share Look	Delete Product	Add Look
Adjust Measurement	Reset Profile	Like/Dislike Shared Look	Save Product	Delete Look
Toggle Accessibility Options	Delete Profile	Add/Remove Friends	Search Products	Favorite Look
	Update Profile	Export Look	Find Product Location	
			Return Product	

4.0 – References

None.