Zebra Technologies - User Experience Project - Kareena Patel - 2022

Introduction

Project brief:

Retail workers in large department stores want to utilise their time at work by staying connected with different colleagues (in other departments) whilst prioritising customers. They can ask questions, seek additional help about a query or alert colleagues about a situation.

Company introduction:

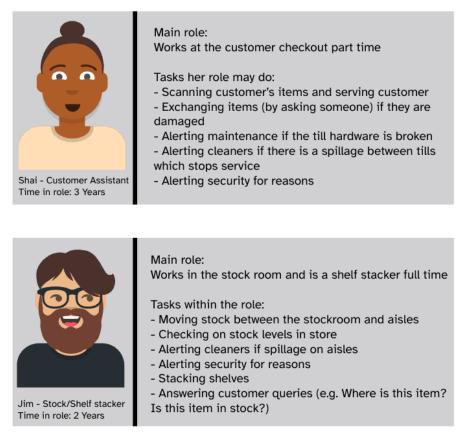
A department store in the UK supplies necessities such as groceries, clothing and home furniture. The stores have lots of staff in different roles. The workers rely on each other to complete tasks while serving customers. Customers use their stores often. So, the company understands that time and priority should go to them. They know the system is needed to have a better workflow and interaction with colleagues and customers.

Commentary:

Exploring what Workforce Connect is about, I have produced a project brief, so I understand the users, problems and aims for implementing this technology.

I have also introduced a company connecting to the brief to show they want to apply the technology.

Persona Introduction - Empathising with the user



Commentary:

The key users (of the system) would be a customer assistant and a stock/shelf stacker. I explore these personas because they are essential front-end and back-end roles within a department store. They also vary in the time they dedicate to the job.

Requirements - Defining the choices and reasons

Reasons for service (motivation)

Prioritising time to customers - Avoid wasting time finding people Increase in profit with a solid workflow - making customers want to come back Organisation -Knowing what people are on your shift and what their role is

Increasing company's dynamics - encouraging collaboration and teamwork

Requirements for design and interface

Interface to be intuitive – using universal real-world icons– Reducing cognitive strain	Application is easy to operate - requires minimal training	Able to show who is working on the shift, what department and role if they are signed in	Runs on a seperate device to avoid distractions (Cannot be a public application)
Camera Feature For instant messaging (Ability to show and tell)	Tracking user's location through the device (e.g. beacon which can be turned on/off at anytime)	Simple interface with aesthetic and minimal design	Accessibility for staff once they sign in. Preferences saved to their account.
Chat feature to contain pr or limited number of chara to get down their message words. Prevents unnecessary typi what to type.	acters – allows user using specific	Sign in is quick. Possible methods: - Username + Password - Identification number - Scanning work ID	Error prevention in signing in, messaging and other features. (Preventing the system from failing)
Being able to delete messages which were published by the original person	Able to mark a task complete depending on the type of task and role it applies to.	Displaying current activity of the store on a dashboard which everyone has access to.	Helping the user recognise and prevent error by showing dialog boxes with message explaining the error
Any worker on the shift can add to the acitivty if required	Adding items to be completed in real time so there is no delay or unnecessary work	Showing main people connected to a department (instantly shown before searching)	The yellow notes are ideas taken from the 'How might we?' section

How might we - Defining the needs

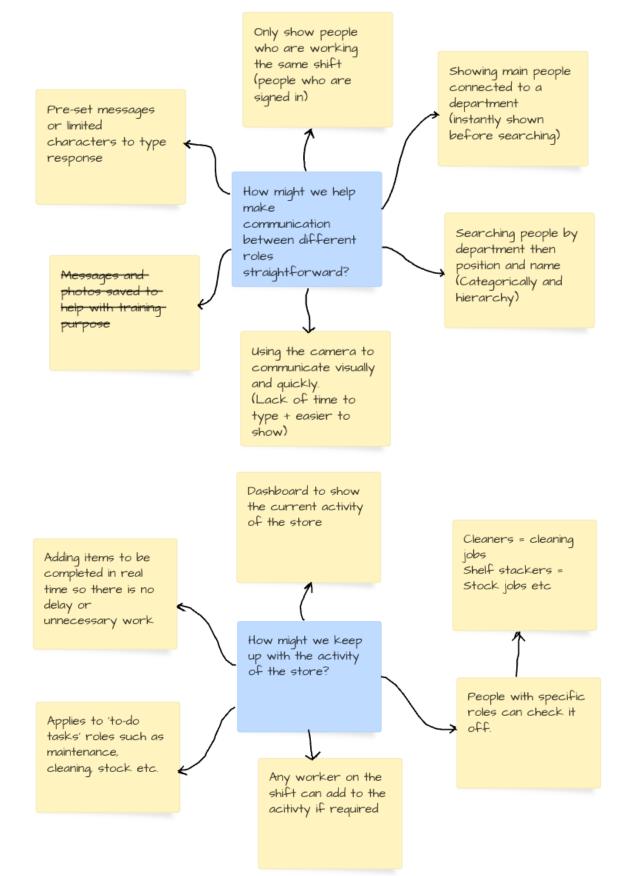
Point of view statements

	Shai needs to al maintenance bea her till's scannel broken	cause	Shai needs exchange a items beca customer damaged p	damaged ause the may buy a	the clean is a spill b cashiers	ls to alert ers as there petween the because she erve people.	
	Jim needs to an customer quest because he can them complete shopping without interruption.	ions help their	shelf was	to stack because the ning low on	stock be stockroc because	pe moved as	
Breaking	down Point of vie	W					
	Helping with keeping the store clean Helping with communication between different departments						
	Pr				vith keeping k levels high		
How Mi	ight We						
	able to id	ht we be dentify who ng the same them?	o sure cus		How might we make communication between diffe roles straightforwa	n erent	
			ght we keep the activity store?	worker	-		

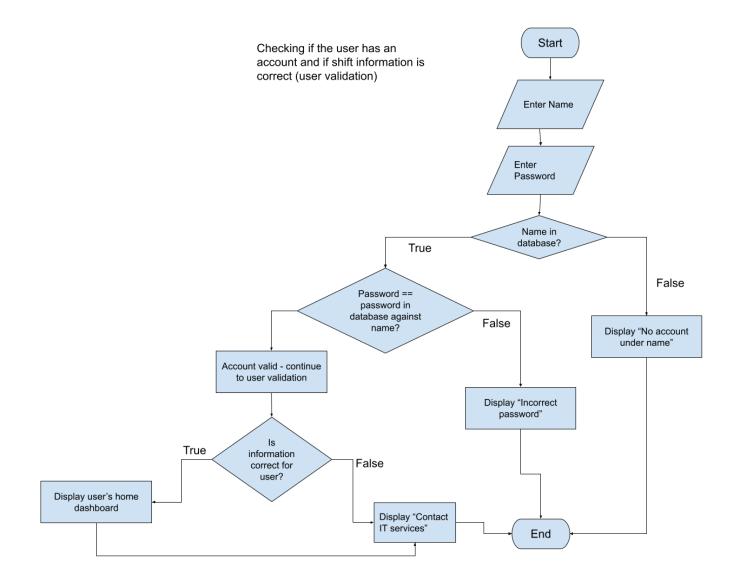
Commentary:

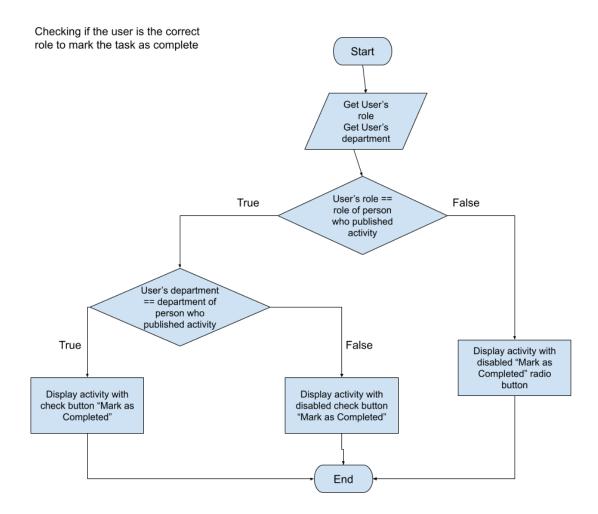
The blue notes circled in red are explored further. I gave answers to the questions. This helped to build up the requirements and user needs further.

How might we?... Answers - Exploring the needs



Flowcharts - Thinking about user flows and how tasks are done





Wireframes - Low fidelity model of the application

Sign in	Sign in (rejected)	Sign in (accepted)
	Cannot find account X The name or password is incorrect	Is this you?
Name Suggestion	Jim D ()	Name (Jim Doe)
Password Suggestion	Password	Department Groceries and Food
Sign in	Sign in	Storage and Shelf stacker () Shift time 9:00am to 3:00pm () Yes No

Frame Name:	Notes:
Sign In	 Company logo appears at the top showing the system belongs to them Entry fields are centralised as important information is needed to sign in The sign-in button is at the bottom because it is the last action to do on the page
Sign In (Rejected)	 The warning message appears at the top and does not overlap the screen It is similar to how Google apps respond if there is either an incorrect password or username given Many users are familiar with this
Sign In (Accepted)	 Verifies the user login-in by showing information related to the user and seeing if it is correct For clarity, the information and user's photo are in aligned to the middle. The design trusts the user to identify themselves honestly

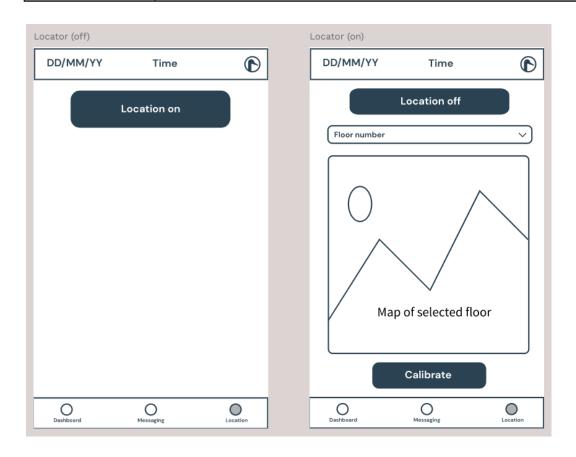
Home dashboard	Activity (new)	Activity (reading responses)
DD/MM/YY Time	DD/MM/YY Time 🕞	DD/MM/YY Time
All tasks Completed Uncompleted Not applicable		Back
Message 1	New Message (Activity)	Message 2
O Mark as complete Time		O Mark as complete Time
Message 2	Characters entered	Response 1
O Mark as complete Time	Choose department	Response 2
Message 3	Choose role V	Time
Mark as complete Time		
Message 4		
Mark as complete	>	Space to enter message
Deshboard O Location	Dashboard Octation	Dashboard O Location

Frame Name:	Notes:
Home Dashboard	 A filter bar is at the top; the user is encouraged to use the feature Activities have a card-like display The activity information is at the top as it is mandatory to view. Time the activity is on the right-hand side showing as secondary information The 'Mark as complete' section is underneath as secondary information. The plus button (Adding a new Activity) is on the right-hand side as most people are right-handed It is similar to Google Keep's layout
Activity (New)	 The message box is large for visibility The number of characters entered is visible underneath as a reference The drop-down menus for the department and role are underneath as it is mandatory to fill. The Messaging (Department) wireframe has 'choose department' at the top. To keep it consistent, it will change.
Activity (Reading responses)	 The message is at the top as a reference to the response thread Responses are underneath to show that it links to the message The profile photo is at the left of the message The user will know who sent the message first then what they have said Similar to WhatsApp, the message space and send button are in matching locations for familiarity The back button is also in a similar location to most applications.
Additional notes	 The navigation bar is at the bottom of all frames because it is clear and accessible and does not overlap content on any frame. The header bar is at the top of all frames for the same reasons as the navigation. The time, date and profile photo are constantly visible The position of the time and date is changeable.

Messaging (home)	Messaging (department	:)		Contact		
DD/MM/YY Time	DD/MM/YY	Time	©	DD/MM/YY	Time	©
Messages to person	Choose department		~	Search Choose department		Q ✓ Filter
	Message			Person's name Role		
				Person's name Role		
				Person's name Role		
				Person's name Role Person's name Role		
				Role Person's name Role		
					_	
Dashboard Messaging Location	Dashboard	Messaging	Location	Dashboard	Messaging	Location
Messaging (person)						
DD/MM/YY Time						
Person's name Role						
Message						
Dashboard Messaging Location						

Frame Name:	Notes:	
Messaging (Home)	 The message box covers the whole frame because it is part of the main feature. Plus button on the right-hand side (Reason similar in Home Dashboard) 	
Messaging (Department)	 Department dropdown bar is before the messaging area Choosing the department first helps the user have direction in writing. 	
Contacts	 Search bar at the top of the frame. It is identical to most applications Filtering options are underneath to provide another way to find contacts The layout is similar to Samsungs phone's contacts page. The difference is the display of the role of the person. 	
Messaging (Person)	 Person's information displayed above for referencing Messaging space underneath and centred on the screen 	

	\circ Should be a send button on the right-hand side
Additional Notes	 The layout of the message (Messaging (Home)) in the box should have been considered (this is in the hi-fidelity model) Messaging (Person) frame has developed and changed in the hi-fidelity model

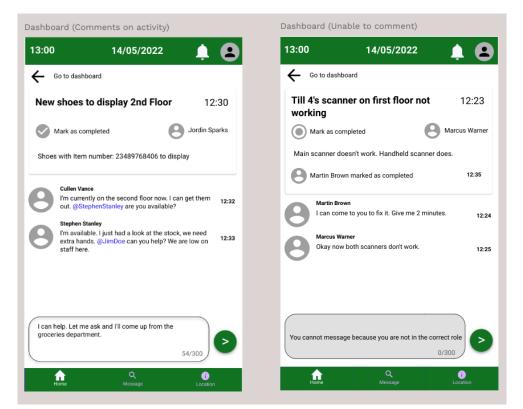


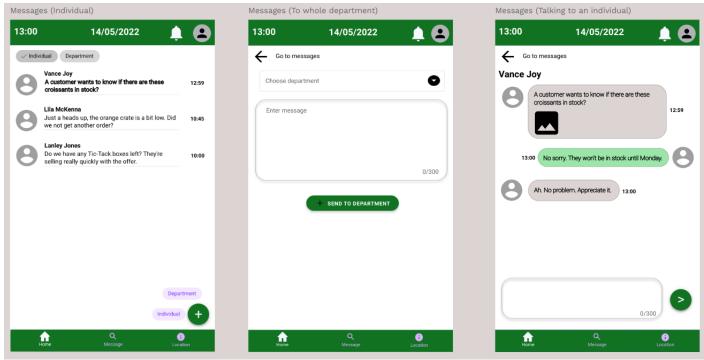
Frame Name:	Notes:
Locator (off)	On button at the top due to the layout of the second screen
Locator (on)	 Location Off button in the same place as the button on the other frame. It acts as a toggle button to show information under it Drop bar is before the map to make the user consider filtering. The calibrate button is underneath. It is the last action to consider if the locator does not work correctly.
Additional notes	 In the hi-fidelity model, Locator (on) has its layout changed to suit the graphics and colour

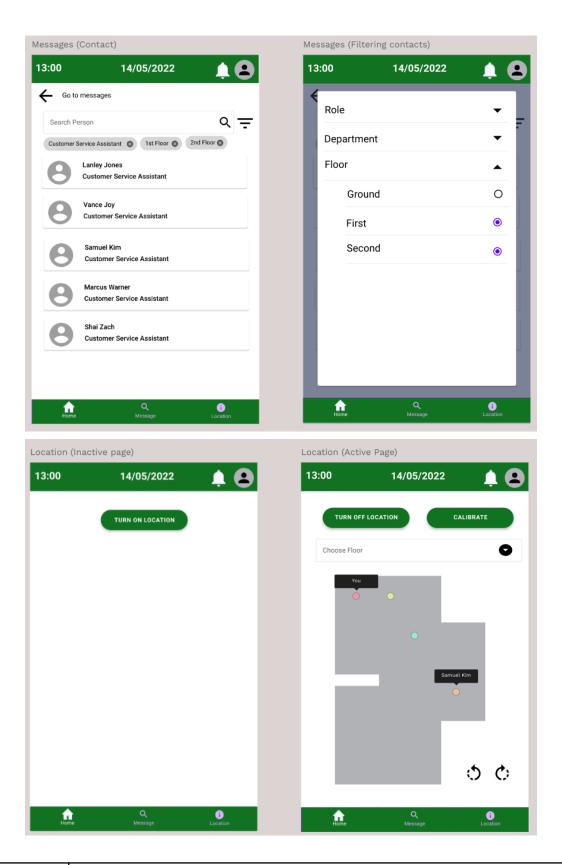
Actual Design - High-fidelity model of the application

Sign in (Start)		Sign in (Error)	Sign in (verification)
13:00	14/05/2022	13:00 Name or password not recognised	13:00 14/05/2022
	Mr.		Go to Login Is this you?
Name		Name JimDoe	Name Jim Doe
			Department Groceries and Food
Password		Password	Role
			Stock/Shelf stacker
	Sign in	Sign in	Shift time 9:00 AM to 3:00 PM
			NO

Dashboard (Home)	viewing notifications	Dashboard (Adding activity)
13:00 14/05/2022 📫 😫	13:00 14/05/2022 🛕 😫	13:00 14/05/2022 🔶 😫
All tasks ② Completed Not completed Not applicable	Go to Messages 13:00	Go to dashboard
Milk spilled in aisle 2 GF 12:59	Enter me New message from Vance Joy	Enter message
Mark as completed Samuel Kim	Dashboard 12:34 You have been mentioned by Stephen Stanley	
New shoes to display 2nd Floor 12:30	Open notifications	0/300
Mark as completed O Jordin Sparks	Choose department	Choose department
Till 4's scanner on first floor not 12:23 working	Choose role 💌	Choose role 🗨
Mark as completed B Marcus Warner		
Cadbury chocolate stock low on 11:30 shelves	+ ADD TO DASHBOARD	+ ADD TO DASHBOARD
Mark as completed Daniel Rojas		
ff C Location	Home Q O Home Message Location	Home Q O Home Message Location



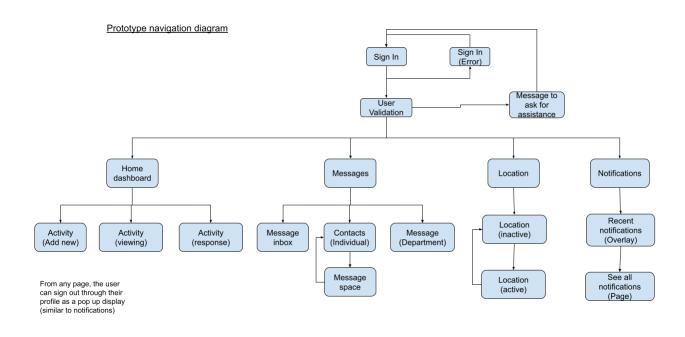




Frame name:	Notes:
All frames	 Choosing dark green as the theme colour makes the system feel unique. It can associate with the company's logo colour. Contrasting a dark colour with white text makes it stand out. The time and date have swapped places because it appears to fit better. A notification bell is shown on every frame; the user knows if there is a new message or activity. (Except sign-in) The user profile photo in the top right corner is where the account

	information is.
Dashboard (Home)	 Different toggles for "Mark as completed" Radio button not filled disabled - Task not completed and cannot be checked off because the person is not part of the role. Radio button filled disabled - Task is finished by a person in a different role. Check button disabled - Task relates to the person's role but not their department Check button enabled - Task relates to the person's role and department so they can tick it. (The frame shows the fourth activity is done) Chips displayed at the top for filtering activities by completion Red dots on the notification icon and messages icon to show content is sent to them
Viewing notifications	 The user has options for each notification through the three dots Only three recent notifications are shown; the whole screen is not covered. The user can see more notifications. If more notifications want to be displayed, they would be displayed similarly to Messages (Individual)
Messages (Filtering contacts)	 Filter screen is an overlay to Messages (contact) (this was not part of the wireframes) The icon for filtering is recognisable Choosing the criteria shows the keyword on Messages (Contact) as a chip Each chip has a cross for easy removability (than going to the filter page and removing criteria one by one)
Message (Individuals)	 Chips at the top so the user can swap between individual and department messages. Tick on chip showing the messages under the section Layout similar to Gmail Bolding a message which has not been opened Creating a new chat with the plus button on the right-hand side with options
Messages (Talking to an individual)	 Using a similar WhatsApp/ messaging interface from phones where the colour of the message determines which user has sent it.
Location (Active Page) Original name: Locator (on)	 The user can rotate the map to suit their view. The calibrate button has moved to the top to suit the layout Coloured markers represent workers with their device location turned on. O User can hover over a marker to show who is who.

Linking prototype frames - Showing how the frames link together



Feedback for the prototype - Understanding the strengths and weaknesses

Commentary:

I collected some feedback from the high-fidelity designs to see what could be improved. For simplicity, I have put the feedback in a table where it talks about a particular frame.

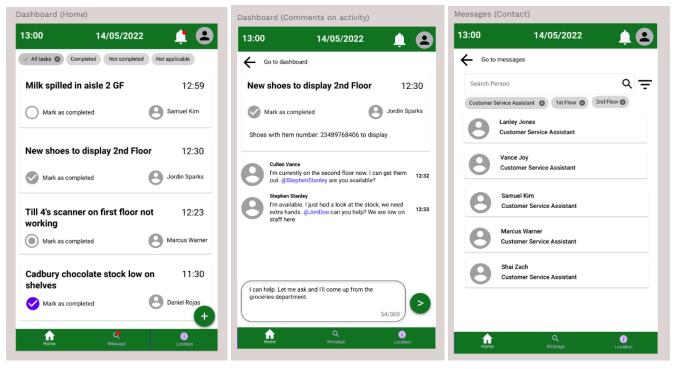
Frame name	Feedback
Dashboard (Home)	 Great that all activities are displayed on cards to separate them. Able to mark a task as completed but cannot show if a task has been started at a glance. How do you add a title to the activity? There is only a message space. Coloured chips are beneficial for quick sorting.
Messaging (Contacts)	 Simple, intuitive display How do you know the floor number a person works on? The search bar is very important
(All frames)	 It is not clear which section from the bottom navigation has been selected. Nice to include a dot where messages or notifications are needing to be seen.

Changes to prototype

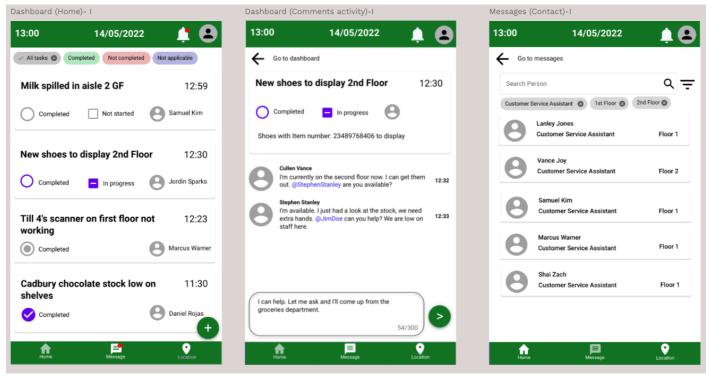
Commentary:

Acting on the feedback of the prototype, I have changed some of the frames either by changing the graphics, adding functionalities and giving more information in some areas.

Frames before changes



Frames after changes



Commentary (Conclusion about the whole project):

Overall this internship has pushed me to explore UX design. From understanding design and aesthetics to how to generate requirements and think beyond within a project. This internship has helped develop my organisation skills and time management as this was done during the university semester. I am grateful to have experienced this.