Phase II: Gathering User Requirements

Easy Delivery Tracking

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CSCC10

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Personas

Jim Jimothy



A 25 year-old entrepreneur with a background in computer science, who is currently working in the tech industry. He lives in his apartment with his roommate John Smith, with whom he'd been friends since elementary school. As part of his job, Jim plays around with electronics and makes robots for his clients. He often orders specific electrical components that he can only find online and has them shipped to his apartment. Jim is a very organized individual who is always on top of his work and tasks he needs to accomplish during the day. He likes to have a clear list of things to do, which keeps him motivated during the day. He seeks to improve his portfolio with more personal projects that can attract more clients.

Jim occasionally visits the grocery store to buy food, but finds it inefficient of his time since he does not have a car. He prefers ordering in food as it saves time and effort that is better spent on his work.

He likes long walks in the morning to clear his head, and goes to the gym with his roommate twice a week.

Holly Granger



As a self-employed small business owner, Ms. Holly Granger is a strong, smart, hard-working woman, who has spent the last 3 years trying to put her business on the map. She is 28 years old, single but in a relationship with her partner David Hofstadter, a fine young man, supportive of her work. With an early dream of being a veterinarian, she has a caring heart for animals, and a passion for ensuring the well-being of these creatures. Though the dream didn't quite work out for Holly, she has since reshaped her career and devoted herself in a pet supporting business that sells pet related products, and provides pet related services.

Holly has great care for her work, but also for her family. She has always been a family person, that one kid who always enjoys taking family photos, a tradition that existed in her family ever since she has memories. Though she lives in a 2-room apartment with David, she always returns to her family house on weekends for dinner, sometimes bringing David along. For her, family, friends, work, and her pet dog Goldie is all that matters to her.

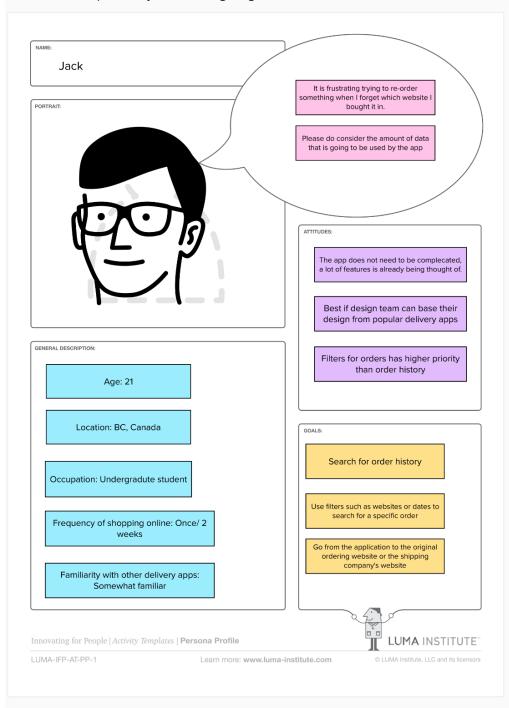


Persona Profile

Develop a persona to understand who you're designing for



Focus on the person you're designing for





Scenarios

Scenario 1

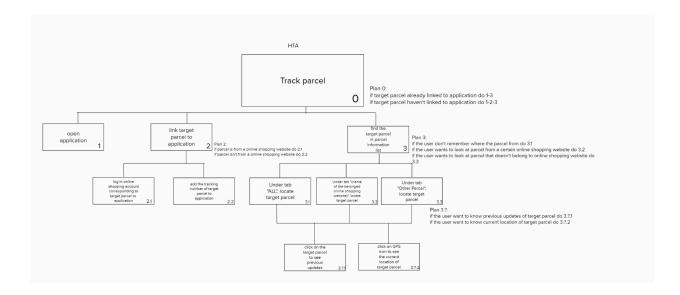
Jim likes to create electrical projects and simple robots in his spare time that he intends to make profitable by selling the prototypes to his clients. One day, he has a great idea to create a robot that he can use to automate the lights in his apartment when he walks in and out of a room. He gathers his supplies and begins brainstorming how to create such a project, while also researching the market for similar ideas. While creating the first prototype for his project, he soon realizes that he does not have many of the electrical components needed to finish completing his task. Jim scours the internet for the parts he needs, and he ends up ordering parts from as many as 10 different websites. Due to the importance of this project, Jim needs a way to keep track of his parcels so he can more easily plan the creation of his project. Although he is very organized, he struggles to monitor all 10 of the websites he ordered from, as it takes up a great chunk of his time to individually log into all the different tracking services.

Scenario 2

Holly's pet shop was pretty busy last month. She has done a lot of restocks online with different platforms. She has to check every different website very often to check the delivery progress for all goods. The pet shop still needs to restock very often online in the next few months. She needs to find an application to wrap all the delivery together to save more time for her business.

Scenario 3

Holly also wants to see all the history of her online ordering on various websites and platforms of her shop for recording purposes. Every time she collects information from different sites spent plenty of time which is unnecessary. She needs an application that can collect all the information for her every time she orders online. Since the orders for her shop would be a lot, this will save a lot of time for her.



https://app.mural.co/t/cscc10group153552/m/cscc10group153552/1633290095026/9c3be4a7c9885ba751c2d74f92fa01bcaa866eed?sender=ue97dbabe4149883373396954

2. Technique(s) used to gather user requirements with an explanation of why the technique was used (interview, survey, observation, etc)

Survey

We choose to use the survey for user requirements gathering because the survey can be completed online and it can be filled quickly, also allowing us to get a large number of responses. The majority of our survey is closed-ended questions, which can be quickly analyzed by the statistical analyzing tools. We also included some opinion driven/open ended questions to catch any suggestions the participants might have.

Interview

Other than the surveys, we also chose to do some interviews with selected people. This allows us to ask some more open ended questions about certain aspects of our design. We were able to show the interviewee our low fidelity prototype and ask for opinions as well as asking some follow up questions, which is not easy to do by asking short multiple choice questions on survey questionnaires.

3. Type of users selected, number of users selected and why (describe any limitations)

For our survey, we were able to get 13 responses from people within our university. All of the people that have answered our surveys have had some online shopping experiences and have

used delivery apps before. About 60% of the participants do online shopping more than once a week. Since these people have used existing tools and apps fairly often, they have much better understanding about the pros and cons of the tools, and should give us more informative feedback about struggles they might have faced.

For our interviews, we were able to get 2 interviewees, both had at least 5 years of experience in online shopping and using delivery apps. With their experience, they are able to compare our low fidelity prototype with delivery apps they have used before and accurately tell us what we did well and what we need to improve on. The only limitation is that although they are experienced users of such apps, they may not have the experience in app development or interface design, so some suggestions might not be feasible from the perspective of an interface designer.

- 4. Artifacts used to conduct the user requirements gathering (sample interview sheet, sample questionnaire, guidelines for assessing observations, low-fidelity prototypes)
 - Sample Survey:
 https://docs.google.com/forms/d/e/1FAlpQLSdyceEfCzQqcaLwOSX637Um3zlSnT90Ok
 Y0uPvloBXj_W5GoQ/viewform?usp=sf_link
 (See Appendix A for screen shots of the sample survey)
 - Low-fidelity Prototype:
 (See in text pictures in Appendix B for pictures of the low-fidelity prototype)
 - Sample interview sheet
 (See Appendix B for the sample interview sheet)
 https://docs.google.com/document/d/1K2Pm2DaK96jl02xw8WMF7yE0UMwV5kjS45Jklz
 90ZzA/edit?usp=sharing
- 5. Summary of results explain how your results inform your design decisions as you move to the next phase of the project (creation of high-fidelity prototypes)

Our results have shown that 6 of our participants(around half) have fairly often faced issues of packages arriving when no one is home to pick up. 10 of the participants said it would be very helpful to receive notifications when the delivery person is nearby. 8 of the participants said it would help a lot to see a map to locate where the package might be while it is being delivered. Some participants have also answered that it would help to see a progress bar to inform them about which phase the delivery process is in. These figures have shown that package tracking has been a fairly big problem for most of the users, which is caused by not being given enough information about the delivered packages. Being able to know where the package is and how far it is to being successfully delivered can help avoid problematic cases for delivery. Which tells us that our design should put a large emphasis on the tracking of the packages, and should make the tracking pages very easy to navigate to and use.

Also, around 70% to 90% of the participants indicated that they think it would be very convenient to be able to track their packages bought from several different websites in one centralized application. Likewise, around the same percentage of people have indicated that it can also be very helpful to have the ability of manually adding/deleting packages and accounts to track. This shows that when designing our website for tracking, not only do we need to ensure that packages from different websites can be tracked in one centralized website. We also need to give the user enough control to decide what packages to track.

Another interesting feedback we got from one of our participants is that not only do we need better tracking for packages when they are delivered to the users, users might also want to track the progress of returned items, so that they will know when they might get their refund. This is an idea we did not previously think about, but it is reasonable; users might feel anxiety when not being able to track the packages' progress as they are returned for refund. Therefore, we will also try to implement that feature as well.

Our interviewees looked at our design and decided that the majority of our design is nice and easy to use, meaning that the overall interface design is on the right track. However they also made several remarks on how we can improve:

- 1. We can add a feature that allows users to rate the delivery experience after a delivery is complete, or perhaps even allowing feedback comments on a particular delivery person, which will allow better interaction between the users and the system. We will be considering this feature in our high fidelity design, and perhaps adding features that allow users to see the previous ratings of the current delivery person.
- 2. On the "Add" page, the search bar for searching online shopping companies conflicts with the option in the drop-down list. We need to make that feature more clear in our future prototype.
- We can have multiple-line input control for adding tracking numbers to the tracking list, so the user don't need to add them one by one if they want to add multiple packages at a time.
- 4. We can change the navigation bar on the main page to a drop down list or a filter so that if the user add many accounts into the tracking list, the bar won't be too long.
- 5. We can add the delivery person's phone number to the package's detail page; one interviewee suggests that since the delivery person needs to drive the van for most of the time, they won't have time to read and reply to chat messages.

Appendix A

Screenshots of the Sample Survey

Easy Delivery APP Survey	× :
Hello, we are the Easy Delivery Tracking group from CSCC10: Happlication that concentrates package information from differe notifications for delivery updates. We appreciate your help if yow will not collect any personal information in this survey.	ent websites in one place, and will give the user
::: How often do you do online shopping?	*
Once a week	
>= Once a week and < five times a week	
>= five times a week	
○ No	
If yes, which package/delivery tracking APP(s) have you	been using?
Amazon	
UPS	
FedEx	
Parcels	

with the APPs. Description (option)				.,	· · · · · · · · · · · · · · · · · · ·	
How often do yo	ou receive yo	ur package in	correctly? *			
	1	2	3	4	5	
Never	0	0	0	0	0	Always
How often are y	ou required to	o pickup you	rpackage? *			
	1	2	3	4	5	
Never	0	0	0	0	0	Always
How often do pa	ackages arriv	e when nobo	dy is home?	*		
	1	2	3	4	5	
Never	0	0	0	0	0	Always
How often do yo	ou lose a pack	kage after be	ing told to pi	ck up the pac	kage? *	
	1	2	3	4	5	
Never	\circ	0	\circ	\circ	0	Always

	1	2	3	4	5	
Never	0	0	0	0	0	Always
Please rate how ea	asy it is to tr	ack your pack	kages with th	e current de	elivery apps	you are using? *
	1	2	3	4	5	
Very Hard	0	0	0	0	0	Very Easy
Long-answer text er section 2 Continue			the current p	ackage/deli	very tracking	g APP? If so, pleas
Long-answer text er section 2 Continu	oful do delive featu	you th ry trac res will	ink if a king Af be in i	PP with	h the	*
Long-answer text er section 2 Continue ection 3 of 3 How help package/ following	oful do delive featur	you th ry trac res will	ink if a king Af be in i	PP with	h the	*
Long-answer text er section 2 Continue ection 3 of 3 How help package/ following online she	oful do delive featur opping	you th ry trac res will g exper	ink if a king Af be in i	PP with	h the ving yo	» i

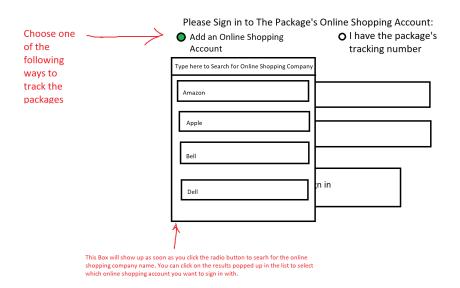
	1	2	3	4	5	
Not Helpful at All	0	0	0	0	0	Very Helpful
Being able to manually a	add a packa	ge to be tr	acked. *			
	1	2	3	4	5	
Not Helpful at All	0	0	0	0	0	Very Helpful
Being able to delete a m	nanually add	led packag	::: je. *			
	1	2	3	4	5	
Not Helpful at All	\circ	0	0	\circ	\circ	Very Helpful
Not Hopful at All						very rielpiui
Being able to sort on the		you have n	egarding o	n their prov	renance (fo	
Being able to sort on the		you have r		n their prov	renance (for	
Being able to sort on the Amazon, UGG, Walmart Not Helpful at All).					
Being able to sort on the Amazon, UGG, Walmart	1	2	3	4	5	r example: * Very Helpful
Being able to sort on the Amazon, UGG, Walmart Not Helpful at All Being able to sort on the	1	2	3	4	5	r example: * Very Helpful
Being able to sort on the Amazon, UGG, Walmart Not Helpful at All Being able to sort on the). 1 output	2 you have r	3 Oregarding of	4	5 Ous (for exam	r example: * Very Helpful
Being able to sort on the Amazon, UGG, Walmart Not Helpful at All Being able to sort on the delivery, delivered).). 1 pe packages 1	you have r	a egarding of	4 h their state	5 us (for exam	r example: * Very Helpful hple: out for *
Being able to sort on the Amazon, UGG, Walmart Not Helpful at All Being able to sort on the delivery, delivered).). 1 pe packages 1	you have r	a egarding of	4 h their state	5 us (for exam	r example: * Very Helpful hple: out for *

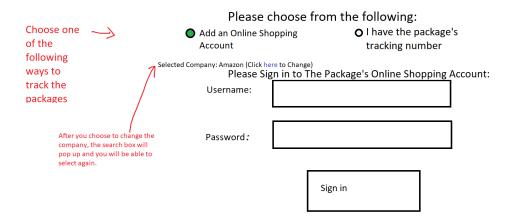
	1	2	3	4	5	
Not Helpful at All	0	0	0	0	0	Very Helpful
lotification when the pa	ackage is o	ut for delive	ery. *			
	1	2	3	4	5	
Not Helpful at All	0	0	0	0	0	Very Helpful
Notification when the de	elivery pers	on is close	by. *			
	1	2	3	4	5	
Not Helpful at All	0	0	0	0	0	Very Helpful
Being able to contact th	e delivery p	erson dire	ctly with a	chat systen	n. *	
	1	2	3	4	5	
Not Helpful at All	0	0	0	0	0	Very Helpful
Can you think of any oth hat can improve your o		-				elivery tracking AF

Appendix B

Sample Interview Sheet

Welcome to the interview! We are the Easy Delivery Tracking group from CSCC10 in UTSC. Our project is to design an APP that allows the user to track the packages from different platforms. This interview will show you the low-fidelity prototype we drew for this APP and ask you some questions related to the prototype. Notice that all prototypes doesn't guarantee what the final work looks like.

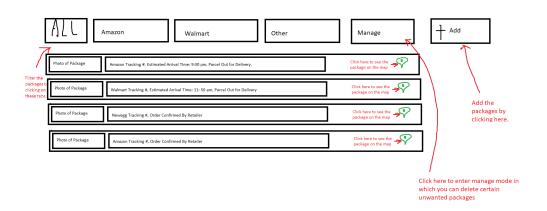




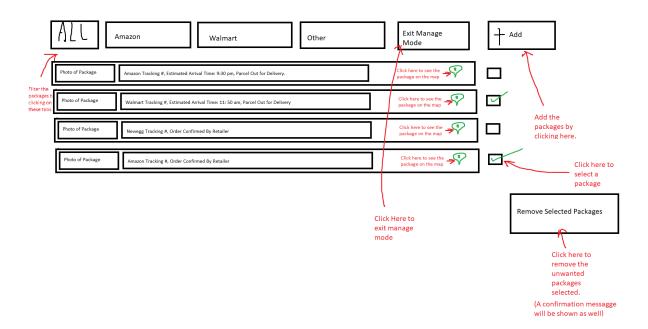
1. These two pictures are to show what the add account page looks like. Look at these pictures, imagining you want to add your Amazon account to the tracking list, will you be able to locate your target button or input box quickly? Is there any area that makes you feel confused?



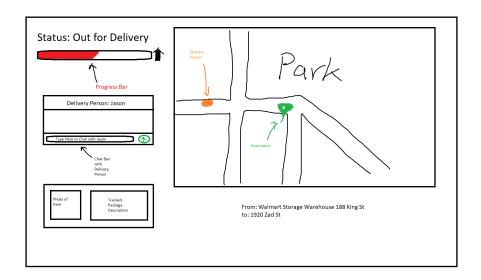
2. This picture is to show what the add package page looks like. Look at this picture, imagining you want to add one package you recently have shipped by Canada Post to the tracking list, will you be able to locate your target button or input box quickly? Is there any area that makes you feel confused?



3. This picture is to show what the main page looks like. Look at this picture, imagining you want to find the information of a package you recently ordered from Amazon, will you be able to locate your target information quickly? Is there any area that makes you feel confused?



4. This picture is to show what the edit mode looks like. Look at this picture, imagining you want to delete your Amazon account and the package from Newegg from the tracking list, will you be able to locate your target checkboxes or buttons quickly? Is there any area that makes you feel confused?



- 5. Also this picture. Look at this picture, imagining you want to know what progress this package is currently in, will you be able to locate your target information quickly? Is there any area that makes you feel confused?
- 6. This picture is to show what the detail page of a package looks like. Look at this picture, imagining you want to see where the current location of your package is, will you be able to locate your target information quickly? Is there any area that makes you feel confused?
- 7. Also this picture. Look at this picture, imagining you want to contact the delivery person who is delivering this package, will you be able to locate your target information quickly? Is there any area that makes you feel confused?