# **Deliverable E: Project Plan and Cost Estimate**

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## 1. Prototype planning

# 1.1. Detailed design drawings

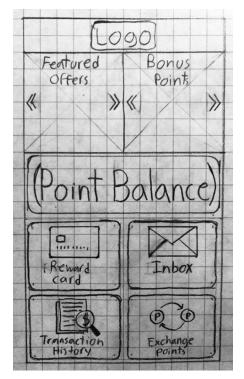


Figure 1 User interface

User name		1		this about	TA
Point	Trends = pie		pie chart	JAZ.	
Romking		N		bar graph	<u>Lulu</u>
Grade		+			
Card number	Pay with		Cash out		
Reward card	positions				
card activity		1			
engagement with bowk	Point -> clollar amount		/	Fund Stock	
History of	Posit -> universal prim system		/	Feedback of oustomors	

Figure 2 Bank interface

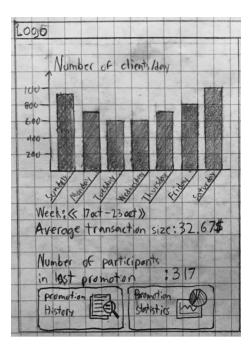


Figure 3 Business interface

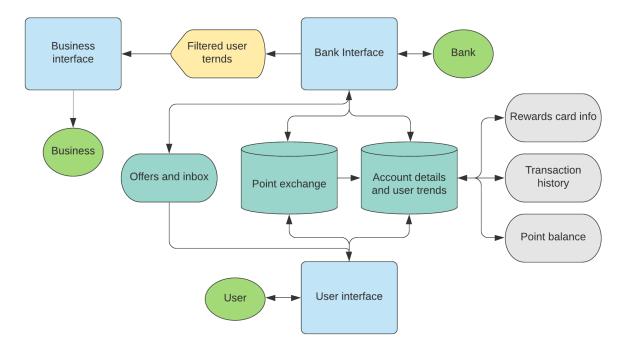


Figure 4 Flowchart of all subsystems

### 1.2. Prototype 1

This prototype will include the conversion of points and designing how all our subsystems will interact via point transactions. It will also provide a basic outline of how banks and businesses will collect and observe customer trend data.

#### 1.1.1. Point conversion

Louis Choinière and Runxing Yan

This will include a skeleton user interface that demonstrates an algorithm that converts points directly from one system to another.

#### 1.1.2. Trend data

Quynh-Ni Au, Bhavya Patel, and Yiming Han

This will involve designing how point transactions are collected and represented to banks and businesses.

### 1.3. Prototype 2

This prototype will focus on the individual functions of each interface and designing the aesthetic aspect of each.

#### 1.3.1. User Interface

Louis Choinière and Bhavya Patel

This will involve the creation of the user interface; presenting user with their point balances, transaction history and how they can interact with their points

#### 1.3.2. Bank and Business Interface

Quynh-Ni Au, Runxing Yan, and Yiming Han

This will involve creating the bank and business interfaces and how each can interact with user trend data and control the conversion of points. The bank interface will receive all trend data and businesses will receive curated data for their business from the bank.

# 1.4. Prototype 3

This prototype will be a fully functional system incorporating a user interface—where customers can interact with their points, view their personal points data, and convert their points—a bank interface—where banks can review transaction data from customers and manage the conversion of points—and a business interface—where businesses can interact with customer trend data for their business. This prototype will put prototypes 2 and 3 together along with upgrades from our test results.

#### 1.4.1. User Interface

Louis Choinière and Bhavya Patel

This will be a revised version of the user interface from prototype 2 using our test results.

#### 1.4.2. Bank and Business Interface

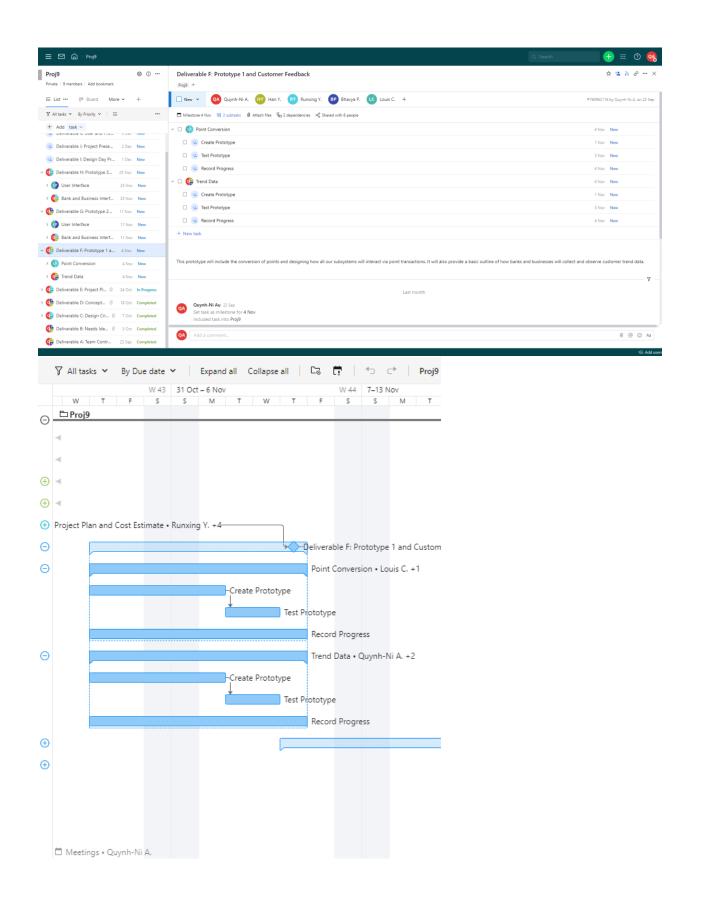
Quynh-Ni Au, Runxing Yan, and Yiming Han

This will be a revised version of the bank and business interfaces from prototype 2 using our test results.

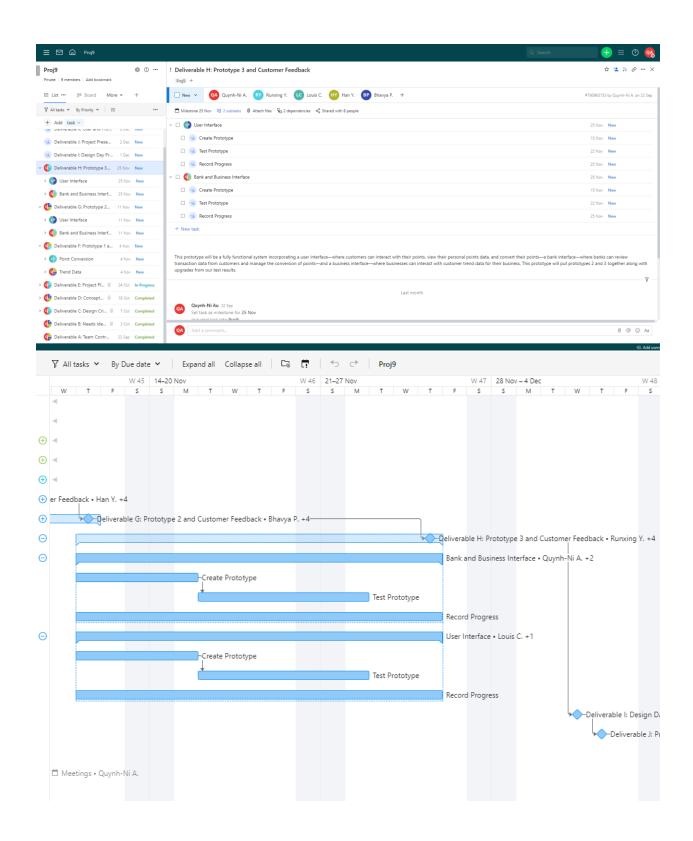
## 1.5. Schedule

We will follow the following schedule each week for all prototypes. This is subject to change.

Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday
Create	Create	Create	Create	Create	Testing	Testing
Prototype	Prototype	Prototype	Prototype	Prototype		
						Meeting
				Meeting to		to discuss
				share our		testing
				systems and		results, wrap
				any last-		up
				minute fixes		Deliverable,
						and discuss
						plan for next
						Deliverable



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vate 9 members Add bookmark	Deliverable G: Prototype 2 and Customer Feedback	文 💶 🗟 🖉 …
List ••• jā Board More v +	Proj9: + ■ New ∨ ② Quynh-Ni A. BP Bhavya P. 100 Han Y. 1C Louis C. 119 Running Y. +	#760962861 by Quynh-Ni A. on 22 Se
All tasks ¥ By Priority ¥   3E ····	Miletone 11 Nov 18 2 subtasis @ Attach files . 9g 2 dependencies	#700402801 by Quynnini A. on 22 Se
Add task v	Mietone II Nov VB 2 subtasis W Attach hies Vg 2 dependences (%) shared with Specifie     V () Viser Interface	11 Nov New
Denvelable is Gael and Flois - O Dec. New	Generate Prototype	8 Nov New
Deliverable J: Project Prese 2 Dec New	C 😩 Test Prototype	10 Nov New
Deliverable I: Design Day Pr 1 Dec New Deliverable H: Prototype 3 25 Nov New	Record Progress	11 Nov New
User Interface 25 Nov New	C C Bank and Business Interface	11 Nov New
Bank and Business Interf 25 Nov New	🗌 🤕 Create Prototype	8 Nov New
Deliverable G: Prototype 2 11 Nov New	C 🙁 Test Prototype	10 Nov New
User Interface 11 Nov New	C 🏩 Record Progress	11 Nov New
Bank and Business Interf 11 Nov New	+ New task	
Deliverable F: Prototype 1 a 4 Nov New		
Point Conversion 4 Nov New	This prototype will focus on the individual functions of each interface and designing the aesthetic aspect of each.	
Trend Data 4 Nov New		Υ
Deliverable E: Project PL () 24 Oct In Progress	Last month	
Deliverable C: Design Cri () 7 Oct Completed	Ouymh-Ni Au 22 Sep Set task as milestone for 11 Nov	
Deliverable B: Needs Ide () 3 Oct Completed	Included task into Proj9	
Deliverable A: Team Contr 23 Sep Completed	Add a comment	0 © A
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eliverable	Bank and Business I	
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	Create Prototype Test Prototype Record Progress User Interface • Lou	



# 1.6. Prototype test plan

Test ID		used and of Basic Test Method (What)	to be Recorded and	Estimated Test duration and planned start date (When)
1		Prototype 1; Record a transaction and track how it		1-2 hours
		updates through the system		Tuesday and/or
			Does it update	Wednesday before
			everywhere (yes/no)	Deliverable G
2	Test the ease of use	Prototype 2; Get an outside	Aesthetics, ease of	< 4 hours
	of the user interface	perspective by letting peers	navigation	
		use the user interface		Tuesday and/or
			Recorded through	Wednesday before
			qualitative observations	Deliverable H
			from users	
3	Test how the	Prototype 2; Interview	Opinions recorded	1-2 days
	customer information	peers in business about	through interview	
	is represented to	how they prefer to interact		Tuesday and
	businesses	with customer trend data,		Wednesday before
		and how they use it		Deliverable H

### 2. List of materials and costs

Equipment	Real price	Our price
Power Bi	\$12.80 per month	\$0
Power Apps	\$20 per month	\$0
Power Automate	\$15 per month	\$0
SharePoint	\$5 per month	\$0
Power Virtual Agents	\$1280 per month per 2000 sessions	\$0
Figma	\$45 per month	\$0
Excel	\$6.99 per month	\$0

### 3. Risks and contingency plans

If one subgroup is struggling to meet deadlines, we will allocate an extra person to the task to help spread out the load. This will be especially important since we are split into groups of 2 and 3.

If one of the team members has an especially busy week or encounters any personal setbacks, we will communicate these concerns early on and shuffle the groups to divide the tasks based on every member's availability and course load.

Due to the software nature of this project, we can lose our saved work. To reduce panic if this situation occurs, we will have a note taker in each subgroup that will record all progress, test results, and take screenshots so we can recreate our work faster. We will also have multiple people save a copy of our work to their computers incase one person encounters technical difficulties.

To prevent heading in the wrong direction, we will continually do a sanity check with our design criteria and customer needs to ensure we are solving the correct problem.

### 4. Deliverable E Wrike plan

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Proj9 🕸 🛈 … Private   9 members   Add bookmark	Deliverable E: Project Plan and Cost Estimate $\mu_{0}\rho_{1} \ + \label{eq:poly}$	\$ 🔨 🗟 & X
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V All tasks      ✓ By Priority      ✓      If      ✓      If      ✓	🗖 Milestone 24 Oct 😫 5 subtasis 🕘 Attach files 🖓 2 dependencies 🔤 Shared with 8 people	
+ Add task ~	🐼 🌗 Detailed Drawings	24 Oct Completed
🐼 Meetings 🖟 In Progress	🐼 🌍 Cost Estimate and List of Equipment/Materials	24 Oct Completed
🗻 Deliverable K: User and Prod 8 Dec New	🐼 🚳 Scheduling	24 Oct Completed
Celiverable J: Project Present 2 Dec New	☑ 🛟 Decide on Prototypes and discuss roles	24 Oct Completed
2 Deliverable I: Design Day Pre 1 Dec New	🐼 🔞 Format the report	24 Oct Completed
> 🚱 Deliverable H: Prototype 3 25 Nov New	+ New task	
> 🔂 Deliverable G: Prototype 2 11 Nov New		
> 🛟 Deliverable F: Prototype 1 a 4 Nov New	Click to add the description	
> 🤤 Deliverable E: Project Pla 🕘 24 Oct In Progress		
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> 🤤 Deliverable C: Design Crit 🌐 7 Oct Completed	Deliverable E—Brainstorming.docx 🧆	18 Oct Quynh-Ni Au
Deliverable B: Needs Iden 🔋 3 Oct Completed	Show more updates	Υ
Deliverable A: Team Contra 23 Sep Completed	This month	
	Quynh-NI Au 14 Oct Renamed task from Project Plan and Cost Estimate to Deliverable E Project Plan and Cost Estimate Quynh-NI Au 16 Oct	
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