
DELIVERY 2

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TEAM B

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GIT url: <https://github.com/SriparnaChakraborty/SOEN-6481>

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0.1 PROBLEM 5

DESCRIPTION:

The user story have been drafted for the TVM [Overgaard, Palmkvist, 2005]. The source of these user stories are following:

- Use cases
- Interviews
- Survey
- other user Stories
- Academic Research

5.1 USER STORY DRAFT TABLE

Id	User Story Description	User Roles	User Goal	Reason	Priority
US1	New user wants to register in the system	Unregistered User	Register to the system	To buy ticket to access the transport facility	4
US2	A registered user wants to log into the system	Registered User	Login to the system	To buy ticket to access the transport facility	4
US3	User wants to buy ticket at concession	Registered User(Senior citizen / Student)	Buy Ticket at a lower price	To get a ticket at a discounted price	3
US4	Government can view the logs of ticket	Government	Document/Log the ticket purchases/use	Analyze the ticket purchases and uses	3
US5	User wants to a buy a monthly/yearly ticket pass for travel	User	Buy monthly/yearly pass	To access the pass facility	5

US6	User wants to make changes to existing ticket plan	User	Make change in existing ticket plan	To modify ticket plan	2
US7	User wants to recharge card online	User	Recharge ticket online	To get online recharge facility	4
US8	User wants to get e-receipt upon purchasing a ticket	User	Get e-receipt	To get a receipt online	4
US9	A user want to select the different plan options	Registered User	Select the available travel plans	To buy ticket plan to access the transport facility	4
US10	A user buy the ticket and get confirmation	Registered user	Enter the card details and buy the ticket plan	To buy ticket plan to access the transport facility	5

5.2 User Stories

5.2.1 Registration

IDENTIFIER	US1
NAME	Registration
STATEMENT	As a User, I should be able to register to the system
CONSTRAINT	1. The user should be an unregistered user.
PRIORITY	3
ACCEPTANCE CRITERIA	1. User is registered successfully.

5.2.2 Login

IDENTIFIER	US2
NAME	Login
STATEMENT	As a User, I should be able to login to the system
CONSTRAINT	1. The user should be already registered in the system
PRIORITY	4
ACCEPTANCE CRITERIA	1. User logs in successfully.

5.2.3 Buy ticket at a concession (Senior Citizen/Student)

IDENTIFIER	US3
NAME	Buy ticket at a concession
STATEMENT	As a senior citizen or a student, I can buy ticket plan at a concession
CONSTRAINT	1. The user should have a valid id proof
PRIORITY	3
ACCEPTANCE CRITERIA	1. Monthly ticket is active for the senior citizen /student

5.2.4 View Ticket Log

IDENTIFIER	US9
NAME	View ticket logs
STATEMENT	As a government employee, I can view the logs of ticket
CONSTRAINT	1. The government can view the logs of all TVM users at a time
PRIORITY	3
ACCEPTANCE CRITERIA	1. The logs of all the users should be successfully displayed

5.2.5 Buy a pass (monthly/yearly)

IDENTIFIER	US5
NAME	Buy monthly/yearly pass
STATEMENT	As a User, I can buy pass for travelling to access the transport facility
CONSTRAINT	1. The user should have ticket
PRIORITY	5
ACCEPTANCE CRITERIA	1. User is successfully able to receive a ticket 2. User should gets a receipt of ticket

5.2.6 Modify ticket plan

IDENTIFIER	US6
NAME	Modify ticket plans
STATEMENT	As a User, I should be able to modify the available ticket plan
CONSTRAINT	1. The user should be logged in.
PRIORITY	2
ACCEPTANCE CRITERIA	1. User is successfully able to modify the ticket plan 2. User is able to select plan for purchase

5.2.7 Recharge card online

IDENTIFIER	US7
NAME	Recharge card online
STATEMENT	As a User, I should be able to recharge card online within the available ticket plan
CONSTRAINT	1. The user should be logged in.
PRIORITY	4
ACCEPTANCE CRITERIA	1. User is successfully able to recharge the card 2. User is able to select plan for purchase

5.2.8 Generate e-receipt

IDENTIFIER	US8
NAME	Generate e-receipt
STATEMENT	As a User, I should be able to get e-receipt
CONSTRAINT	1. The user should be logged in.
PRIORITY	4
ACCEPTANCE CRITERIA	1. User is successfully able to get e receipt 2. User is able to see and review the purchase

5.2.9 View ticket plan

IDENTIFIER	US9
NAME	View ticket plans
STATEMENT	As a User, I should be able to view all the available ticket plans
CONSTRAINT	1. The user should be logged in.
PRIORITY	4
ACCEPTANCE CRITERIA	1. User is successfully able to view the ticket plans 2. User is able to select plan for purchase

5.2.10 Buy ticket

IDENTIFIER	US10
NAME	Buy ticket
STATEMENT	As a User, I can buy ticket for travelling to access the transport facility
CONSTRAINT	1. The user should have ticket
PRIORITY	5
ACCEPTANCE CRITERIA	1. User is successfully able to receive a ticket 2. User should get a receipt of ticket

Persona:

Persona US 01 -US02:



Image credit: Google

Status: IT Professional

Archetype: The Quest

Personality: compassionate, professional

Motivations: fear, society, loyalty

Goals: To be able to register as a new user in the iGO online system.

Frustrations: stand in queue and getting late for work.

Bio: Karan is an IT professional and he always use technology for better life. To get access to the iGO website he is looking for a way to register himself into the system to run things smoothly. So that he does not need to stand in queue and use that time for some quality work. So Karan's goal is to create an account with iGO system and log in to it as a new user.

Reference:

[1] Deliverable 2\Documentations\Persona US9

Persona US 03:

**Bio**

Cristiano is an Undergrad International student at Lasalle College. He came to Canada 2 years ago. As the fees for the International Students in Canadian institutes are high, Cristiano has taken a loan from a bank in Germany in order to pay for his studies. Along with his study, He works part time in order to help his financial conditions. He can not afford a car. He lives in Lasalle, QC. He commutes using the Metro and Busses. In order to help students like him, Concession Plans are available in the IGo system so that students can commute at a cheaper price. Monthly Prices for the students are less as compared to the regular citizen.

Demographics**Name**

Cristiano Ronaldo

Age

32

Nationality

Germany

Status in Canada

Student

Institute

Lasalle College

Occupation

Student


Goals

- He likes to be punctual and reach the targets before deadlines.
- He wants to recharge his card for one month at a concession.
- Also he prefers to make transactions by his debit/credit card for faster and cashless transaction.

Frustrations

- Hates being late to the classes and his job.
- Does not like to waste money.

Persona US 05:

<p>Pesona_Jenny</p>  <p>Image credit : Google</p>	<ul style="list-style-type: none"> • Jenny, 17 • Works at a restaurant (Part Time) • Lives with her family in Montreal, Canada
Background	<p>Her parents emigrated from China, she was born here.</p> <p>She is doing a degree in visual arts from Dawson College.</p> <p>She likes to spend most of her free time with her siblings.</p> <p>She likes to travel and sometimes she goes out for movies with her friends.</p>
Everyday life	<p>She rides a bicycle daily to her work.</p> <p>During weekends she travel via subway with her friends or family whenever they are going out.</p>
Tasks and Goals	<p>As a TVM user, Jenny wishes to buy a monthly or yearly pass.</p>
Pain points and frustrations	<p>Jenny's major concerns:</p> <ul style="list-style-type: none"> • Having to visit the TVM in person to recharge the card. • Not having option of payment receipt sent to his email.

Persona US 07:



Image credit : Google

Status: Student at University

Archetype: The Quest

Personality: compassionate, guarded, pragmatic

Motivations: fear, society, comfort, loyalty

Goals: online card recharge for public transport

Frustrations: stand in queue and getting late for work and study.

Bio: Alice is a student and he always use technology for better life so for card recharge he is also looking for online recharge portal for public transport so that he do not need to stand in queue and use that time for some quality work . So Alice goal is to recharge card online.

Persona US 09 - US10:



Bio

Amit is a developer working in Netmax Technologies. He came to Canada 4years ago. As the living expenses for the immigrants in Canada are high, He has taken a loan from a bank in India in order to pay for his expenses . Along with his work, He also works as a freelancer developer to help his financial conditions. He can not afford a personal vehicle right now to commute. He lives in Cote Vertu , QC . He commutes using the Metro and Busses. In order to help people like him, Different Plans are available in the IGo system so that regular commuters can commute at a cheaper price. Monthly Prices for the regular passenger are less as compared to the unregularly passenger.

Demographics

Name

Amit Sachdeva

Age

27

Nationality

India

Status in Canada

Working in MNC

Institute

Netmax
Technologies

Occupation

Developer

Goals

- He likes to be punctual and reach the office on time.
- He wants to recharge his card for one month at a concession rates.
- Also he prefers to make transactions by his debit/credit card for faster and cashless transaction .

Frustrations

- Hates being late to the office.
- Does not like to waste money, tries very hard to save money.

0.2 PROBLEM 6:

Traceability Matrix:

The backward traceability matrix (TMiGO) is created based on the sources for the various user stories. The backward traceability matrix is the potential for tracing antecedent steps in a developmental path, which is not necessarily a chronological path [Traceability, Kamthan, 2019].

Traceability Matrix Table:

User story name		Interviews / Survey	Use cases	User story	Previous Project	Academic Research
Registration	US1	X	X		X	
Login	US2		X		X	
Buy ticket at a concession (Senior Citizen/Student)	US3	X		X		
View Ticket Log	US4		X			
Buy a pass(monthly/yearly)	US5	X		X	X	
Modify ticket plan	US6	X		X		
Recharge card online	US7	X		X	X	
Generate e-receipt	US8	X	X			X
Ticket Plan	US9	X	X			
Buy Ticket	US10		X			

0.3 PROBLEM 7

- Please find the attached source code along with this document
- This is the link to GitHub:<https://github.com/SriparnaChakraborty/SOEN-6481>
- 3. Implementation Details:

Name	User Story
Sriparna Chakraborty	US3 – Buy ticket at a concession
Vsu Chuchra	US5 - Buy a pass(monthly/yearly)
Ravneet Singh Brar	US7- Recharge card online
Vasu Dadhnia	US9 - Ticket Plans
Gunvansh Bhatia	US2 - Login

Bibliography

- [1] [Keeling, 2017] Design It! From Programmer to Software Architect. *The L^AT_EX Companion*. M. Keeling. The Pragmatic Programmers. 2017.
- [2] [Alonso-RÃÃos, Mosqueira-Rey, Moret-Bonillo, 2018] A Systematic and Generalizable Approach to the Heuristic Evaluation of User Interfaces. *The L^AT_EX Companion*. D. Alonso-RÃÃos, E. Mosqueira-Rey, V. Moret-Bonillo. International Journal of Human-Computer Interaction. Volume 34. Number 12. 2018. Pages 1169-1182
- [3] <https://www.tutorialspoint.com/articles/how-to-create-a-use-case-diagram>