SOEN 6481

Submitted to : Prof. Pankaj Kamthan

Jingya Pan - 40044079

Concordia University
Department of Computer Science and Software Engineering
Montreal

July 10, 2020

Overview

Ticket Vending Machine system (iGo)

Objective

- iGo system support to link to the OPUS card.
- iGo system is able to load OPUS card online.
- The users for iGo system are able to view the balance of the card.
- The iGo system need to be built maintainable, secure, sustainable, and usable.

Collaboration Patterns

- Share access to resources.
- Give and take productively.
- Grant and generate voice.
- Engage in shared Adaptive Action.

Tools Support

- Trello help prioritizing the work and keeping organized.
- Github Continuous integration.
- WhatApp All team members keep informed.
- Overleaf Use the same account to support shared editing.

Stakeholders mind map

Stakeholders: iGo Development team, Quebec Government, Federal Government, STM and General Public

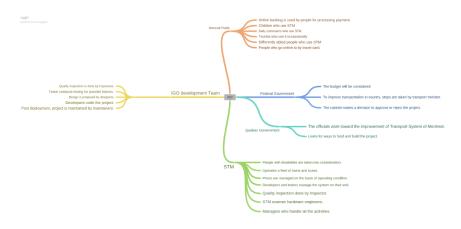


Figure: Stakeholders for iGo

Domain Model

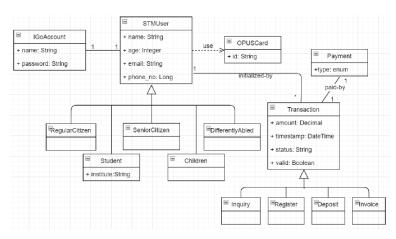


Figure: Domain Model for iGo

Use Case Model -Use Case Diagram

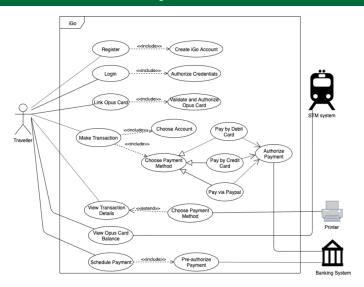


Figure: Use Case Diagram for iGo Deliverable 3

6/14

Use Case Model -Activity Diagram

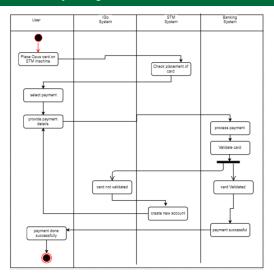


Figure: Activity Diagram for iGo

iGo Login and Register



Please Sign in

Password

Login

Forgot Password?

Register

Home Page



Figure: Home Page for iGo

Link OPUS Card



Figure: Link OPUS Card

Manage Card and Check Balance



Figure: Manage Card and Check Balance

Load Card

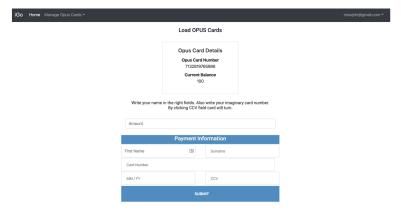


Figure: Load Card

Persona

Each user story follows a persona. This is an example for 'iGo Registration'.



Persona for user story 'iGo Registration'

Person Name: Vanessa Abrams

Job/Role Description: University student major in Painting and Drawing (BFA). She studies virtually approach to painting and drawing, from traditional oil painting to graphic novel production and 3D spatial installation.

Goals: Use the iGo system to simplify the opus card relevant operation, and save the time for recharge,

Abilities: Vanessa is a University student and familiar with the computer operation, and get access to the Internet almost everyday at home or campus.

Short narrative: Vanessa is university student Vanessa. She uses the computer almost everyday. In order to finish the school project, she needs to get some information from the website. She also uses computer to download the resources like the notes to review. Sometimes she likes to watch some movies in the weekend with her families. To recap, she is guite familiar with technology, and it is not hard for her to deal with the normal and regular operation with the computer.

In order to get access to the iGo system ,Vanessa visits the register page first and is notified to enter a valid email address and set a password which is defined to be more than 8 characters. For her, the operation is relatively easy and straightforward, she uses the email and set the password is a regular operation.

Figure: Persona

Deliverable 3

13 / 14

Lesson Learned

From each deliverable, we are able to split things up, and use the previous artifact to support the subsequent step.

- We start with context of use to know the usage of the iGo system, and list the stakeholders, in order to present a relative complement domain model. Then we use the use case modeling technique to model the iGo system from different perspective.
- For D2, we create user stories according to the user model, and create persona for each to get to know more details, and then we implement each user story for further validation.