

SOEN 6481

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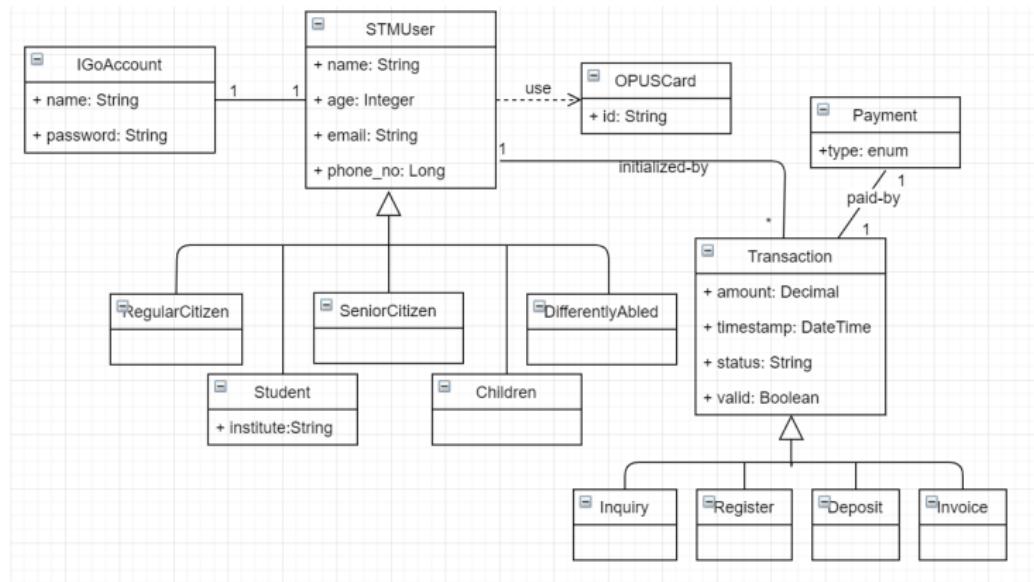
July 10, 2020

Overview

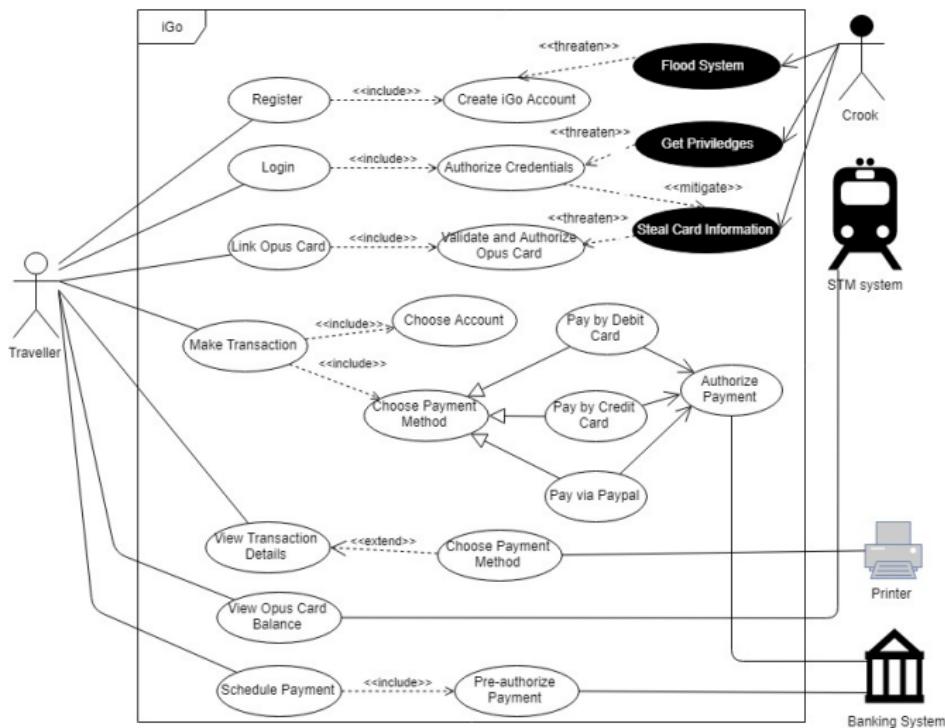
Aim

- Realization of Ticket Vending Machine problem domain using UML models
- To empathize with external stakeholders
- Satisfying needs of internal stakeholders

Domain Model



Use Case Model



Why UML Modeling, Interviews are important?

Change problem domain from Ticket Vending Machine to Spacecraft or Polygraph machine



Why UML Modeling, Interviews are important?

For problem domain Ticket Vending Machine



Persona modeling

For problem domain Ticket Vending Machine

PROJECT: C2M for Asia Travel

	NAME Deep Patel, Graduate Teaching Assistant
Demographic Male 23 years Canada Single Graduate Teaching Assistant Meticulous, Cautious, Friendly	PERSONALITY TYPE Rational
Typical Usage Internet: 100 Mobile device: 100 Banking Applications: 100	Goals I intend to provide solutions for unsolved problems. A wannabe Computer Scientist.
	Quote Every problem has a solution.
	Motivations <ul style="list-style-type: none">To browse information regarding services offered by STMTo buy or recharge OPUS card
	Background 23 y.o. Busy individual often working on problems. Typically spends time learning, surfing the internet. Heavily rely on technologies. Likes playing football, computer games. Likes to attend social events.
	Needs <ul style="list-style-type: none">24/7 availability of services from organizationFaster responseQuick guidanceSimple steps for performing transactions onlineAssurance from organization when money is invested in any activity
	Frustrations <ul style="list-style-type: none">Time consuming activitiesRepetitive tasksRemembering passwords, usernameAnimationsAdvertisementExcessive featuresHaving to wait in long queue to recharge opus card

Persona modeling

For problem domain Ticket Vending Machine

PROJECT: C2M for Asia Travell



NAME
Aditya Surve, Graduate Student

PERSONALITY TYPE
Guardian

Goals
To bring the order in the world full of chaos.

Quote
"I've clearly seen everything is either 0 or 1."

Motivations
• To buy a ticket or order OPUS card
• To search the distance between source and destination

Background
24 y.o. He studies software engineering. He likes to read about religions, technologies. Prone to recently launched electronic gadgets. Suffers from social anxiety. He loves watching movies, hanging out with friends.

Demographic
Male 24 years
Canada
Single
Graduate Teaching Assistant
Logical, Orderly, Debater

Typical Usage
Internet: 75
Mobile device: 75
Banking Applications: 75

Needs
• Facility to order OPUS card from the internet
• Wants to recharge OPUS card performing online transactions
• Safe payment method
• Highly concerned with security
• Faster response while navigating through web application

Frustrations
• Having to wait for trivial tasks such as paying STM tickets
• Having to write credit card credential while performing online transactions
• Slow response time
• Error pages displayed
• Not being able to find informations regarding questions online

Implemented User Stories

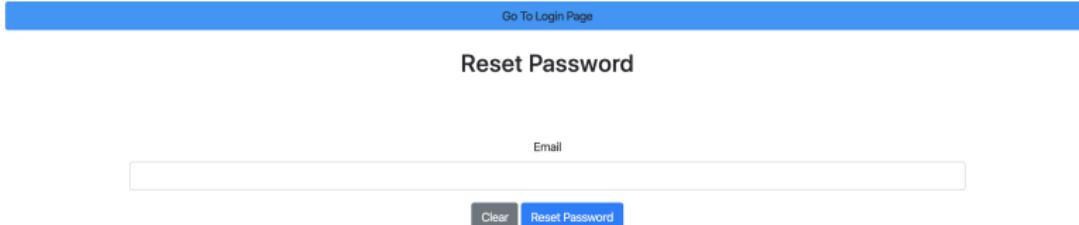
As an existing iGo user, I want to reset my password so that I can get back in to iGo site if I forget my password.

Priority: High
Extension

- To facilitate users to change the password in a secure way through email sent to inbox for completing activity.

Implemented User Stories(Screenshot)

As an existing iGo user, I want to reset my password so that I can get back in to iGo site if I forget my password.



The screenshot shows a password reset form. At the top, there is a blue header bar with a "Go To Login Page" link. Below the header, the title "Reset Password" is centered. Underneath the title is a text input field labeled "Email". At the bottom of the form are two buttons: "Clear" (gray) and "Reset Password" (blue).

Figure: Password reset page to let user enter valid email id

Implemented User Stories(Screenshot)

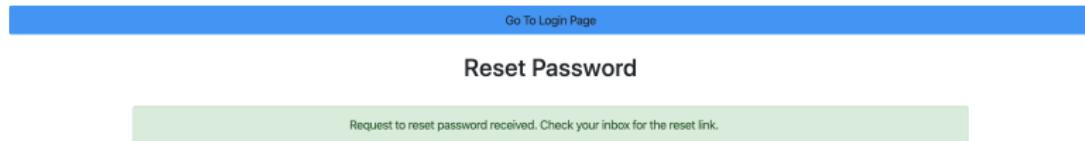


Figure: A page showing that password reset link has been sent to email

Implemented User Stories(Screenshot)



Figure: An email sent by system to user with password reset link

Implemented User Stories(Screenshot)

Enter new password:

Password

Clear Submit

Figure: A form to let user enter new password once he clicks on link received on the email

Implemented User Stories(Screenshot)

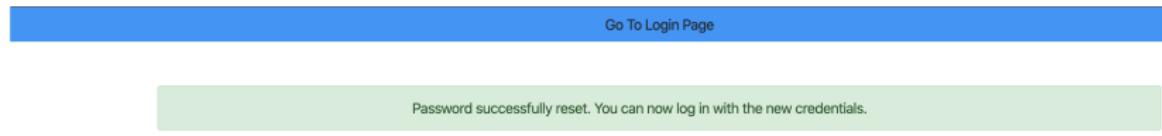


Figure: A page showing message that password reset has been successful and now user can login using new password

Implemented User Stories(Screenshot)

The screenshot shows a web page titled "Reset Password". At the top, there is a blue header bar with the text "Go To Login Page". Below the header, the main title "Reset Password" is centered. A pink horizontal bar contains the error message "This email does not exist!". Below this, there is a form field labeled "Email" containing the value "abc@gmail.com". At the bottom of the form are two buttons: "Clear" (gray) and "Reset Password" (blue).

Figure: A page showing user that email does not exist if user enters invalid email which does not exist in iGo Database.

Collaboration Tools and Patterns

FILL KNOWLEDGE GAPS



Collaboration Tools and Patterns

CENTRALIZE WORK PRODUCT MANAGEMENT



Figure: Overleaf logo



Figure: Github logo



Figure: Trello logo

Critical Decision

For choosing Implementation technology



Figure: Spring Framework

Critical Decision

User stories prioritization

User Story 1: As an unregistered user of iGo system, I wish to create a new account on iGo website to use services offered by iGo in secure manner.

User Story 2: As an existing iGo user, I want to log in to iGo website by providing a registered email id and password and use the service offered by iGo in secure manner.

User Story 3: As an existing iGo user, I want to reset my password so that I can get back in to iGo site if I forget my password in secure manner.

User Story 4: As an existing iGo user, I intend to link opus card by inserting number displayed on physical opus card to the respective account so that I am able to top up opus card.

User Story 5: As an existing iGo user, I can view linked opus card balance so that I can keep track of my usage.

User Story 6: As an existing iGo user having at least one linked opus card, I want to top up my OPUS card on iGo using visa/mastercard.

Potential reuse of project

- Documentation artifact reuse in different province for problem domain-Ticket Vending Machine
- Code base reuse

Lessons learnt by doing project

- Importance of teamwork
- Empathizing with users
- Importance of understanding problem domain
- Deliver features needed by users