

SOEN 6481 - Software Systems Requirements Specification

Requirement Analysis of Ticket Vending Machine

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-TEAM A

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Outline

- 1 Current system
- 2 Proposed solution
- 3 Collaboration patterns
- 4 Critical decision
- 5 Reuse potential
- 6 Lessons learnt

Current system

Slow and Out-dated system.



Source: Google Images.

Continued

Waiting for hours in the station to recharge OPUS card every month.



Source: Google Images.

Continued

It's not easy for everyone to stand in a queue for hours.



Source: Google Images.

Proposed solution

iGo.

You just need a Laptop/Tablet/Mobile phone with internet connection.



Source: Google Images.

Continued

Login to iGo from anywhere.

Sign Up

Please fill in this form to create an account.

Email

Enter Email

Password

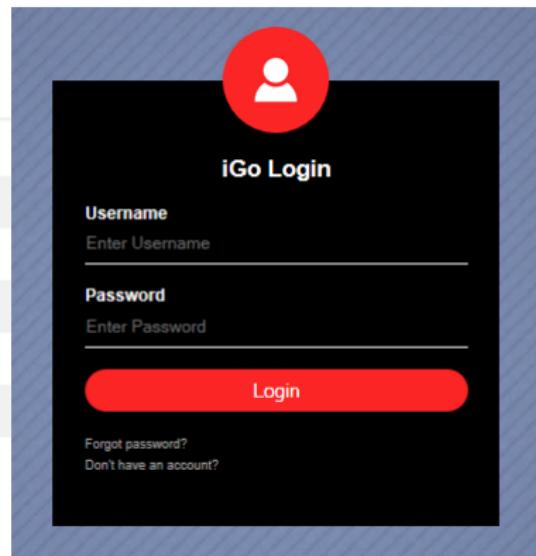
Enter Password

Repeat Password

Repeat Password

Remember me

By creating an account you agree to our [Terms & Privacy](#).



Continued

You can view your card details and transaction history anytime.



Jhon Doe

Linked opus cards

Card: 45556-90007

Address

#5143 Saint-Marc Laval, Montreal

Postal code: H3G2E4

Email:

jondoe@gmail.com

Phone:

438-728-1433

Continued

Need not wait in queue to buy tickets from now!

Previous transaction details

Name: Jhon Doe

Card: 45556-90007

Station: Guy-Concordia

Time: 10:26 AM

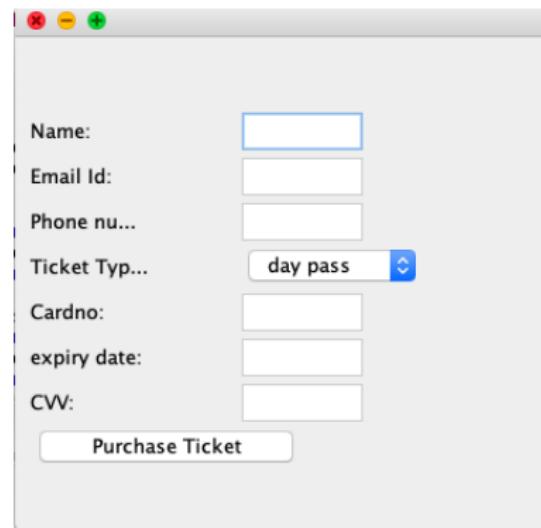
Date: 02-11-2019

Ticket details

Monthly pass

Cost: \$52

Valid till: 01-12-2019



The screenshot displays a user interface for purchasing a transit ticket. At the top, there are three small circular icons: red with a minus sign, yellow with a plus sign, and green with a plus sign. Below these are several input fields and dropdown menus:

- Name:** An input field with a blue border.
- Email Id:** An input field with a blue border.
- Phone nu...** An input field with a blue border.
- Ticket Typ...**: A dropdown menu currently set to "day pass".
- Cardno:** An input field with a blue border.
- expiry date:** An input field with a blue border.
- CVV:** An input field with a blue border.

At the bottom of the form is a large, rounded rectangular button labeled "Purchase Ticket".

Collaboration patterns

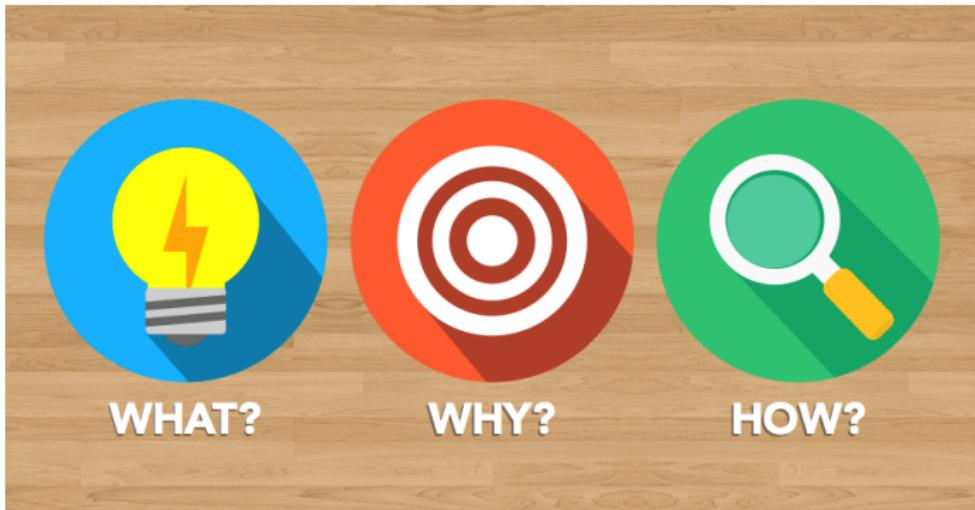
Centralize Work Product Management - Ensure that all team members always have access to the latest project artefact versions.

The screenshot shows a user interface for managing branches, likely from a tool like GitHub or Bitbucket. At the top, there's a navigation bar with tabs: 'Overview' (selected), 'Yours', 'Active', 'Stale', and 'All branches'. To the right is a search bar labeled 'Search branches...'. Below the navigation is a section titled 'Default branch' containing a single entry: 'master' (Updated last month by charles-augustin) with a 'Default' button. The next section, 'Your branches', contains one entry: 'Problem-3' (Updated 2 months ago by AdarshArvind) with a progress bar at 20/0, a pull request button '#10 Merged', and a delete icon. The final section, 'Active branches', also contains one entry: 'ahmedmaria-patch-1' (Updated 2 months ago by ahmedmaria) with a progress bar at 21/1, a 'New pull request' button, and a delete icon. Another 'Problem-3' entry is listed below it with a progress bar at 20/0, a pull request button '#10 Merged', and a delete icon.

Source: Google Images.

Continued

Manage The Project – 3 W's are important for every project. What? Why? When? Discuss who will do what and when for every iteration of the project.



Source: Google Images.

Continued

Spread Tasks Appropriately - Ensure that all team members have an appropriate number of tasks, according to their skills and responsibilities.



Source: Google Images.

Continued

Start Immediately - Postponing things will lead to poor quality in work as everything will have to be completed in a short duration under pressure.



Source: Google Images.

Critical decision

Go paperless! Use iGo which saves your time. This was a critical decision because we are deviating from one technology to another. (From physical machine to digital machine)



Source: Google Images.

Reuse potential

The interview questions are helpful to understand the current system from users' perspective.



Source: Google Images.

Continued

Our approach can be used throughout the world across any online ticketing application by changing few functionalities of the system accordingly.



Source: Google Images.

Lessons learnt

Understand the problem completely before you propose a solution.



Source: Google Images.

Continued

Spend your time more in understanding the stakeholder's requirement rather than fixing bugs in development stage.



Source: Google Images.

Continued

Respect ideas from your colleagues. Working as a team gives you better results than working individually.



Source: Google Images.

Thank You



Thank
you!!