SOEN 6481
Submitted to : Prof. Pankaj Kamthan

Nirav Patel - 40081268

Concordia University
Department of Computer Science and Software Engineering
Montreal

November 29, 2019

Overview

Aim

- To develope a secure and maintainable system to manage travel cards online
- To save time of travellers by bringing system online and allowing user to manage travelling
- Allow user of OPUS to have view of entire history of his/her travel and transactions.

Collaboration Tools and Patterns

One of the hallmark features of Trello is that it's really easy to collaborate and work with others. Whether it's co-workers, a spouse, or some friends, Trello boards give everyone a shared perspective. You can view everything you need and access all of the information in one place.

Figure: Trello logo

Collaboration Tools and Patterns (cont..)

- Share expectations
- Fill knowledge gaps
- Centralize work product management
- Reguraly check requirements fulfillment **Live Demo with CI/CD**

Figure: Overleaf logo

Figure: Github logo

Stakeholders

- Quebec Government
- STM Office Management
- iGo Developers
- iGo Business Analyst
- iGo Project Manager
- STM Business Analyst
- STM Project Manager

Implemented User Stories

An existing iGo user login iGo website by providing credentials to use services offered by iGo. **Priority: High**
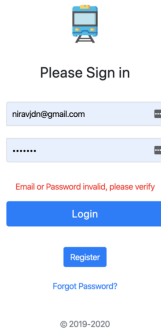**Acceptance Tests**

- *Email Format Rule: The rule is an email string must contain the symbol "@" with characters and "@" doesn't appear at the end of a string.
- *Password Format Rule: User's password must be more than 8 characters.

Extension

- When credentials given by user are invalid, system shall show proper error message.

Please Sign in

niravjdn@gmail.com

·······

Email or Password invalid, please verify

Login

Register

Forgot Password?

© 2019-2020

Figure: User story 3 Implementation

Figure: User story 4 Implementation

An existing iGo user having at least one linked OPUS card want to top up his/her OPUS card on iGo using visa/mastercard.

Figure: User Story 10 Implementation

Figure: Spring Framework

Critical Decision

For choosing Implementation technology, We had two choices.

Figure: Spring Framework

Figure: Yii Framework

Decision Factors

Spring

- Jaav
- Open Source
- Great Community
- Matured
- More option for customization

Yii

- Code Generator
- Active Record
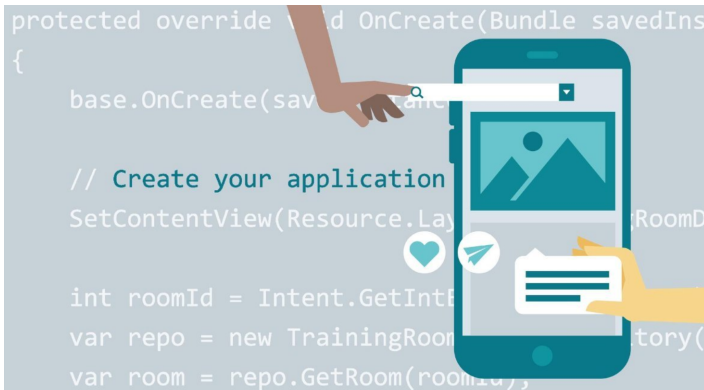- Good for small scale applications
- Simple
- Limited Option for Customization

This web based application can be used across any online ticketing system with a few more advancements in terms of criticality.

Potential Re-use of IGo

Interviews,user stories,personas and other documentations done during the project could be of significant use as they contain vital information of daily users of the system which could be further used to design more advanced systems globally.

Lessons Learnt

Team work and effective collaboration of work

Lessons Learnt

Planning and effective reviewing each other tasks.

Time management

Being Responsible,Adaptable,Creative,Innovative.

Achieving Quality in one's work.

References

Spring vs Java `https://stackshare.io/stackups/spring-vs-yii`

Trello `https://trello.com/en`