

MICHIGAN STATE
UNIVERSITY

Alpha Presentation

Consumer Payroll Check Cashing Analytics

The Capstone Experience

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Spring 2011

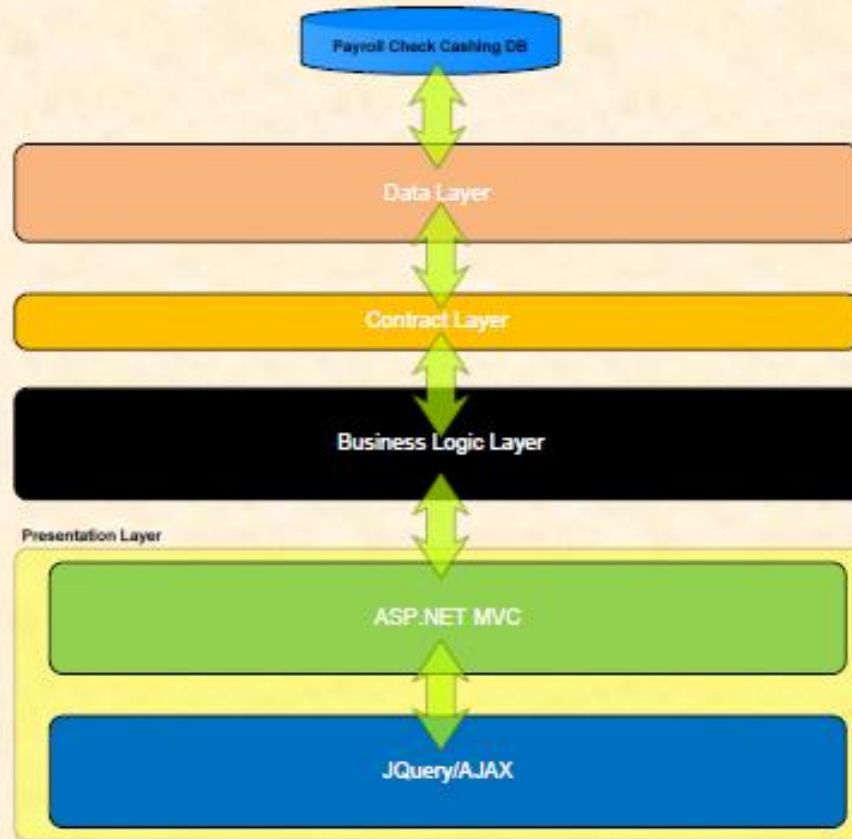


*From Students...
...to Professionals*

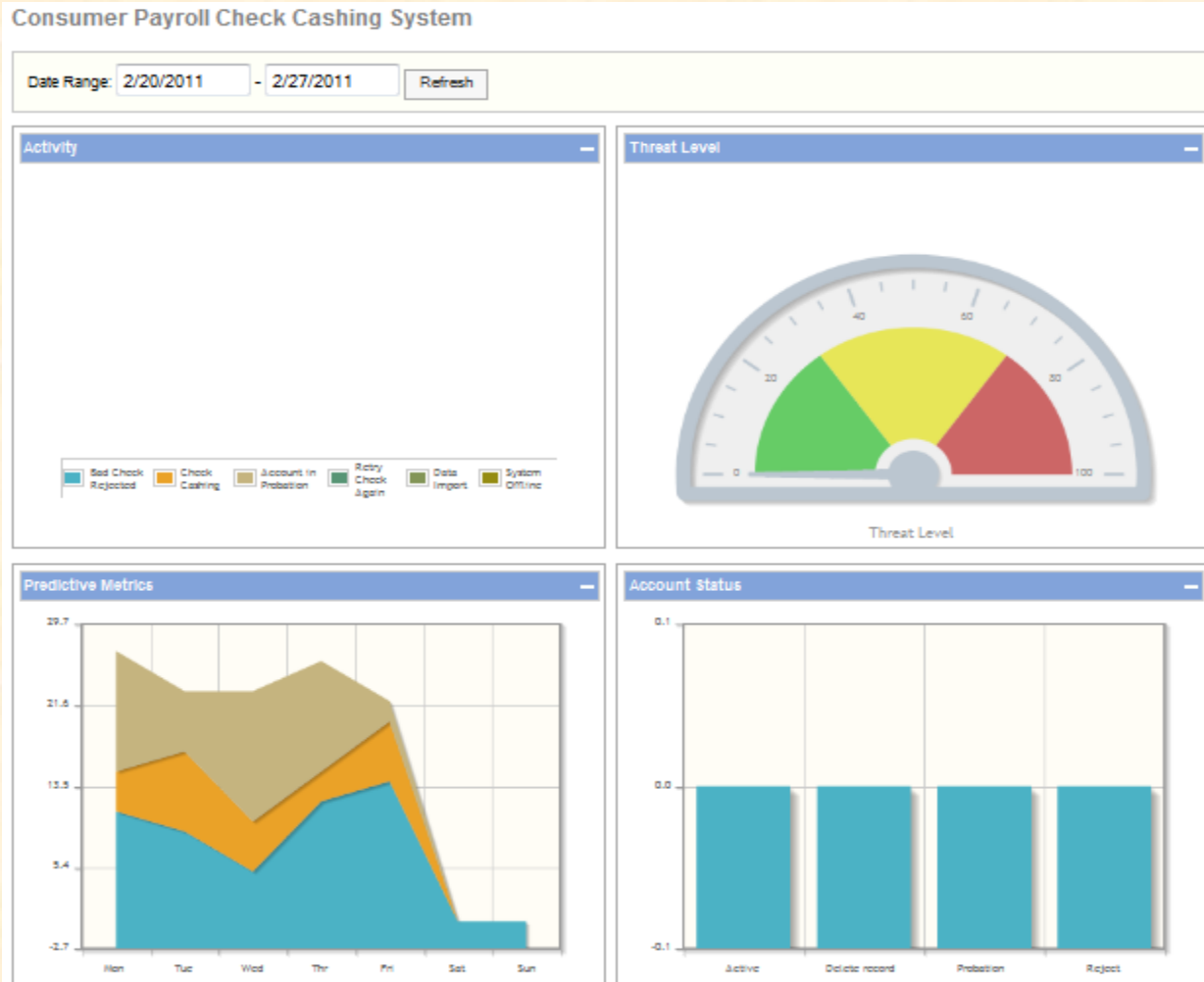
Project Overview

- Meijer has a Payroll Check Cashing System
- Possibility of fraudulent checks
- Develop a web-based system for reporting and analyzing features
- Send out alerts based on trend data
- Provide a web system in order to be used to lower the amount of fraudulent checks

System Architecture



Dashboard Screen



Activity Search Screen

Higher Standards
meijer
Lower Prices

Home | Customer Accounts | Activity Search | Store Groups | Alerts | Reports

Activity Search

Action Type Activity Date -

[more search options](#)

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	Customer #	Check Date	Check Amount	Meijer	Certegy	Action	Date
view	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$90.00	Do Not Cash - Do not Try Again	Offline to Cert - no cashing	System Offline	1/18/2011
view	B123456789456	1/18/2011	\$70.00	Do Not Cash Check - Try Again	Invalid SSN	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$70.00	Do Not Cash Check - Try Again	Invalid SSN	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$70.00	Do Not Cash Check - Try Again	Invalid SSN	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$60.00	Do Not Cash Check - Try Again	ID and DOB did not match	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$50.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011
view	B123456789456	1/18/2011	\$40.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011
view	B123456789456	1/18/2011	\$45.00	Cash Check	No Text - Cash Check	Check Cashing	1/18/2011
view	B123456789456	1/18/2011	\$30.00	Do Not Cash - Do not Try Again	Decline Message	Account In Probation	1/18/2011
view	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
view	B123456789456	1/18/2011	\$20.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011
view	B123456789456	1/18/2011	\$10.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011
view	B123456789456	12/31/2010	\$25.00	Cash Check	No Text - Cash Check	Check Cashing	1/14/2011
view	B123456789456	1/5/2011	\$150.00	Do Not Cash Check - Try Again	Recollect all data and retry	Retry Check Again	1/14/2011
view	B123456789456	1/5/2011	\$150.00	Do Not Cash Check - Try Again	Recollect all data and retry	Retry Check Again	1/14/2011

Customer Info Screen

Higher Standards. Lower Prices. **meijer**

Home | Customer Accounts | Activity Search | Store Groups | Alerts | Reports

B123456789456

Customer Number B123456789456
 Name tester
 Date Of Birth 8/19/1974 12:00:00 AM
 Enrollment Date 1/18/2011 10:42:17 AM

Employer Id 38
 Employer Name NUL
 Routing Number 876543212
 Government Check? No

Activity Log

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	Customer #	Check Date	Check Amount	Meijer	Certegy	Action	Date
View	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
View	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
View	B123456789456	1/18/2011	\$30.00	Do Not Cash Check - Try Again	ID type and number dont match	Retry Check Again	1/18/2011
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View	B123456789456	1/18/2011	\$60.00	Do Not Cash Check - Try Again	ID and DOB did not match	Retry Check Again	1/18/2011
View	B123456789456	1/18/2011	\$50.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011
View	B123456789456	1/18/2011	\$40.00	Do Not Cash - Do not Try Again	Decline Message	Bad Check Rejected	1/18/2011

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What's left to do?

- Create Police Report
- Implement email template in the alerts system
- Complete threat metrics for metrics details in dashboard
- Peer review/unit testing
- Create fraud simulator
- Integrate Meijer.ent for role based authentication

