

MICHIGAN STATE
UNIVERSITY

Beta Presentation

Parking Allocation and Expense

Reconciliation

The Capstone Experience

Team Quicken Loans

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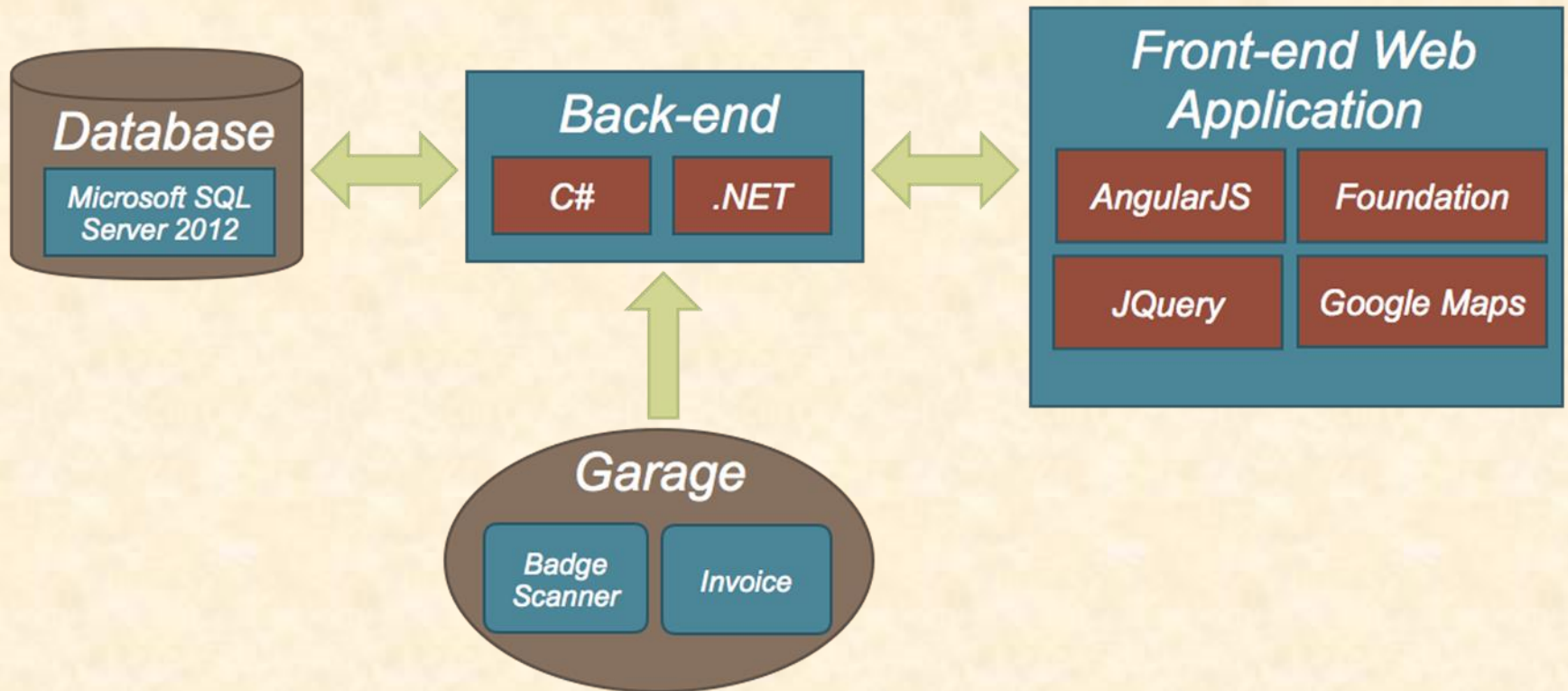
From Students...
...to Professionals

Project Overview

- Quicken Loans leases a large number of parking spaces in Detroit.
- Differences between QL and Managers' parker lists results in overbilling.
- Expenses are currently reconciled manually for each garage.
- We are developing an application to automate this reconciliation process.



System Architecture



Garage Map

Parking Dashboard | Expenses | Garages | Notifications | Garage

Spots Available

- 100+ Spots
- 51 - 100 Spots
- 1 - 50 Spots
- Garage Full

One Campus Martius(OCM)

Address: 1188 Farmer St
Detroit MI 48226

Capacity: 3085

Leased Spaces: 1825

Cost Per Space: -

Owner: Bedrock

Billing Party: UPM

Garage Manager ID: 1

Parking Usage	
Name	Usage
Carson Alexander	0/31
Meredith Alonso	0/31
Arturo Anand	0/31
Gytis Barzdukas	0/31
Yan Li	0/31
Peggy Justice	0/31

Upload an Active Parker Report

Parking Dashboard Expenses ▾ Garages ▾ Notifications

[Upload History](#)

[Upload an Invoice](#)

[Upload a Parker Report](#)

[Upload a Card Activity Report](#)

[Detected Issues](#)

Upload an Active Parker Report

This form allows you to upload a Quicken Loans active parker report. The report can be a System Galaxy excel file, but could be other formats as well. This data will be ingested into the database and can be used in the Expense Reconciliation Tool to identify discrepancies.

Date

Month/Year of Report

Date Received:

Active Parker Reports + -

Garage:



Upload an Invoice

Parking Dashboard Expenses ▾ Garages ▾ Notifications

[Upload History](#)
[Upload an Invoice](#)
[Upload a Parker Report](#)
[Upload a Card Activity Report](#)
[Detected Issues](#)

Upload an Invoice

This form allows you to upload an invoice along with one or more active parker reports. This data will be ingested into the database and can be used in the Expense Reconciliation Tool to identify discrepancies in the active parker reports from Garage managers.

Invoice Meta-Data

Invoice Number:	<input type="text"/>	Amount Billed:	<input type="text"/>
Number of Leased Spots:	<input type="text"/>	Number of Validations:	<input type="text" value="optional"/>
Month/Year of Billing	<input type="text" value="required"/>	Date Received:	<input type="text" value="optional"/>

Active Parker Reports + -

Garage:



Identify Discrepancies

Parking Dashboard Expenses Garages Notifications

Identify Discrepancies

This page identifies errors in invoices for a Garage. Here you will select a Garage along with the Month and Year to check for errors. The system will check the database for errors and generate a report to use.

Month/Year:

Garage:

Detected Issues for 1001 Woodward Garage

Name	BadgeID	Action	Date
Louise [redacted]	22764	Remove	
Ryan [redacted]	21747	Remove	
Diana [redacted]	303360	Remove	
Melissa [redacted]	42784	Remove	
James [redacted]	304387	Remove	
Kevin [redacted]	35802	Remove	
John [redacted]	21174	Remove	
Dawn [redacted]	40171	Remove	
Sean [redacted]	45573	Remove	



What's left to do?

- UI Improvement
- Notifications
- Bug fixing
- Project Video
- Documentation

