

MICHIGAN STATE

U N I V E R S I T Y

Project Plan
Enterprise Architecture Roadmap
The Capstone Experience

Team Quicken Loans

Brian Chivers
Chase Grove
Emily Klopfer
Eric Nartker
Bence Toth

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Fall 2015



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

Functional Specifications

- **Roadmap Page** – The landing page of the application that allows the user to open a new project, view their personal projects or all projects on the database
- **Editing Mode** – This function is called when a project is opened, the user can add or remove data points while also seeing the presentation view that the project will have when in presentation mode
- **Presentation Mode** – This is the mode seen by the audience of the presentations, these include clickable interaction with the presenter that allows them to delve deeper into the project's specifications

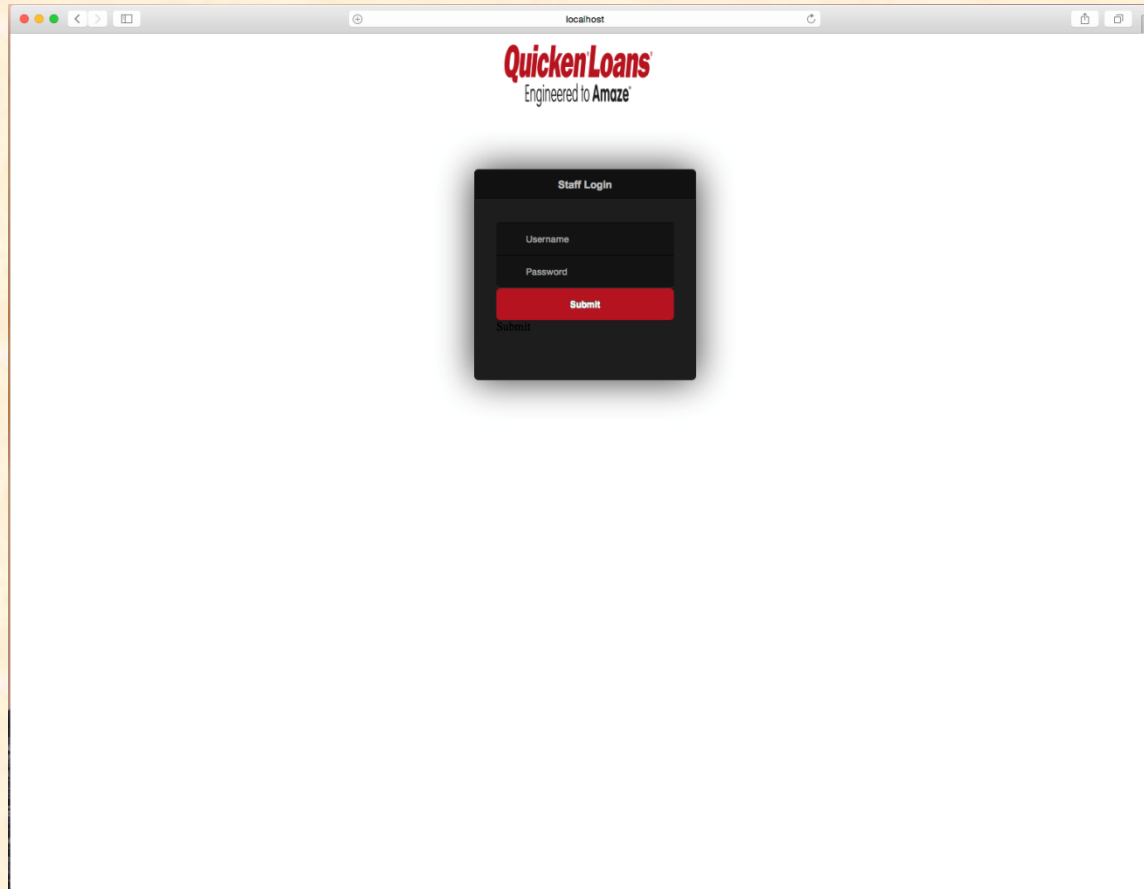


Design Specifications

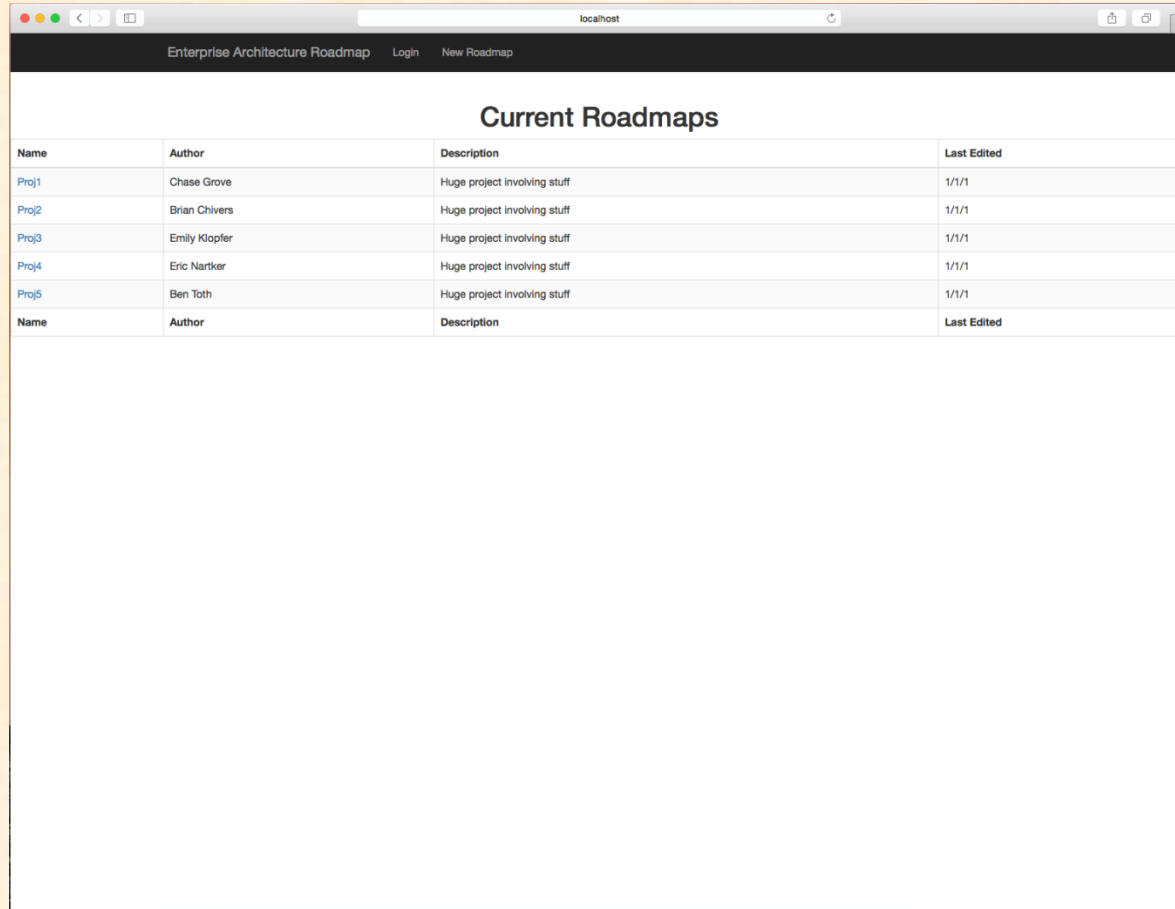
- Login Page
- Roadmap Page
 - All Current Roadmaps
 - Search Functionality
- Roadmap Tool
 - Data input (collapsible)
 - Live data visualization
 - Second level modal box
 - Presentation Mode



Screen Mockup: Login Screen



Screen Mockup: Roadmap Screen



localhost

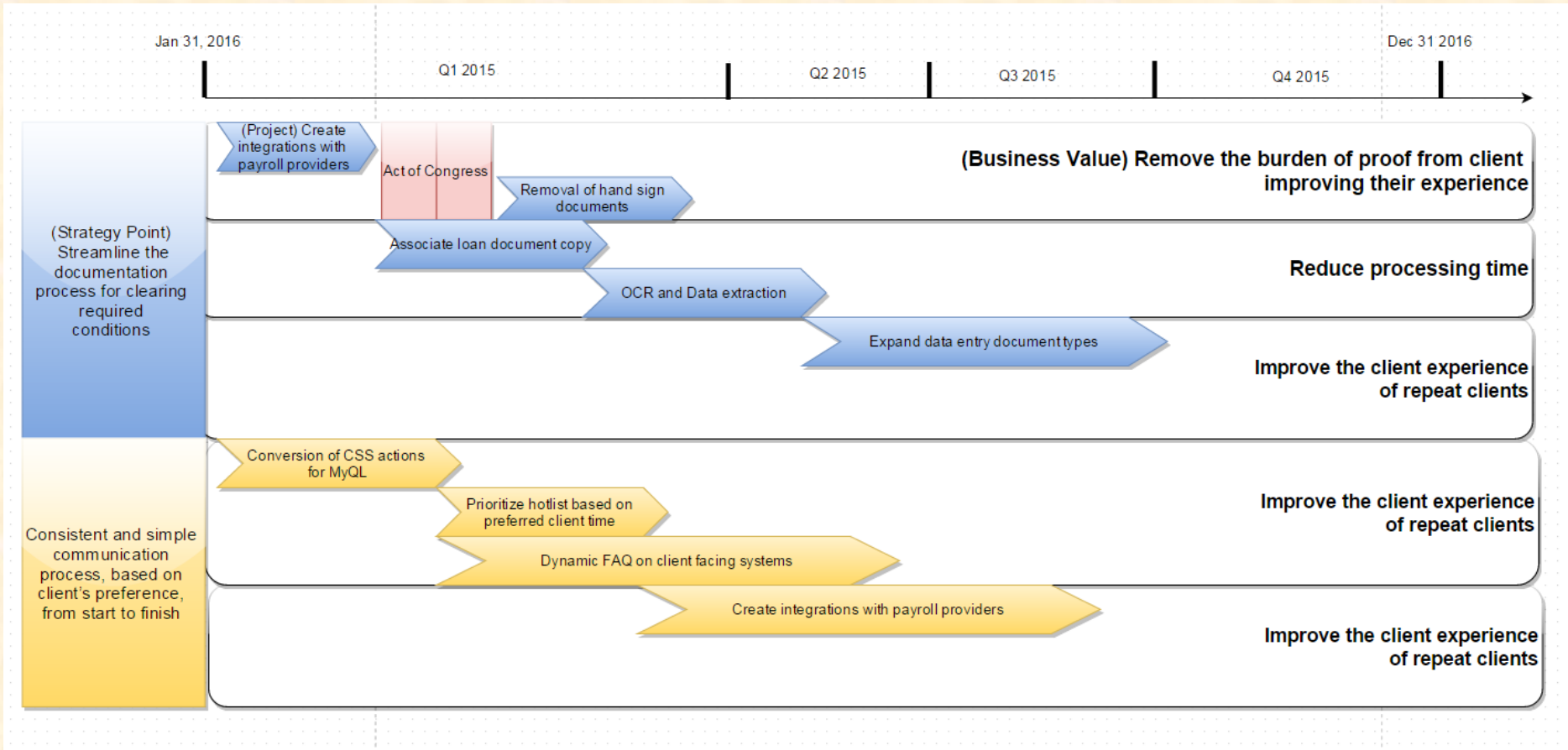
Enterprise Architecture Roadmap Login New Roadmap

Current Roadmaps

Name	Author	Description	Last Edited
Proj1	Chase Grove	Huge project involving stuff	1/1/1
Proj2	Brian Chivers	Huge project involving stuff	1/1/1
Proj3	Emily Klopfer	Huge project involving stuff	1/1/1
Proj4	Eric Nartker	Huge project involving stuff	1/1/1
Proj5	Ben Toth	Huge project involving stuff	1/1/1
Name	Author	Description	Last Edited



Screen Mockup: Design Mockup



Screen Mockup: Data Input Mockup

Streamline the documentation process for clearing required conditions

Add Business Value

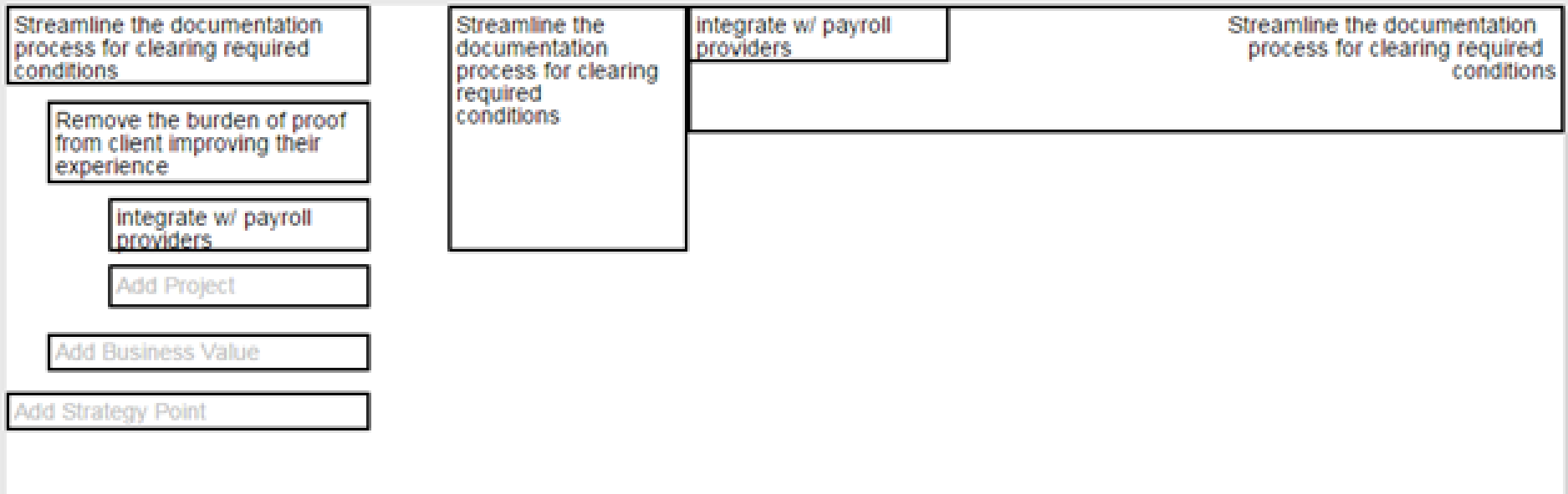
Add Project

Add Strategy Point

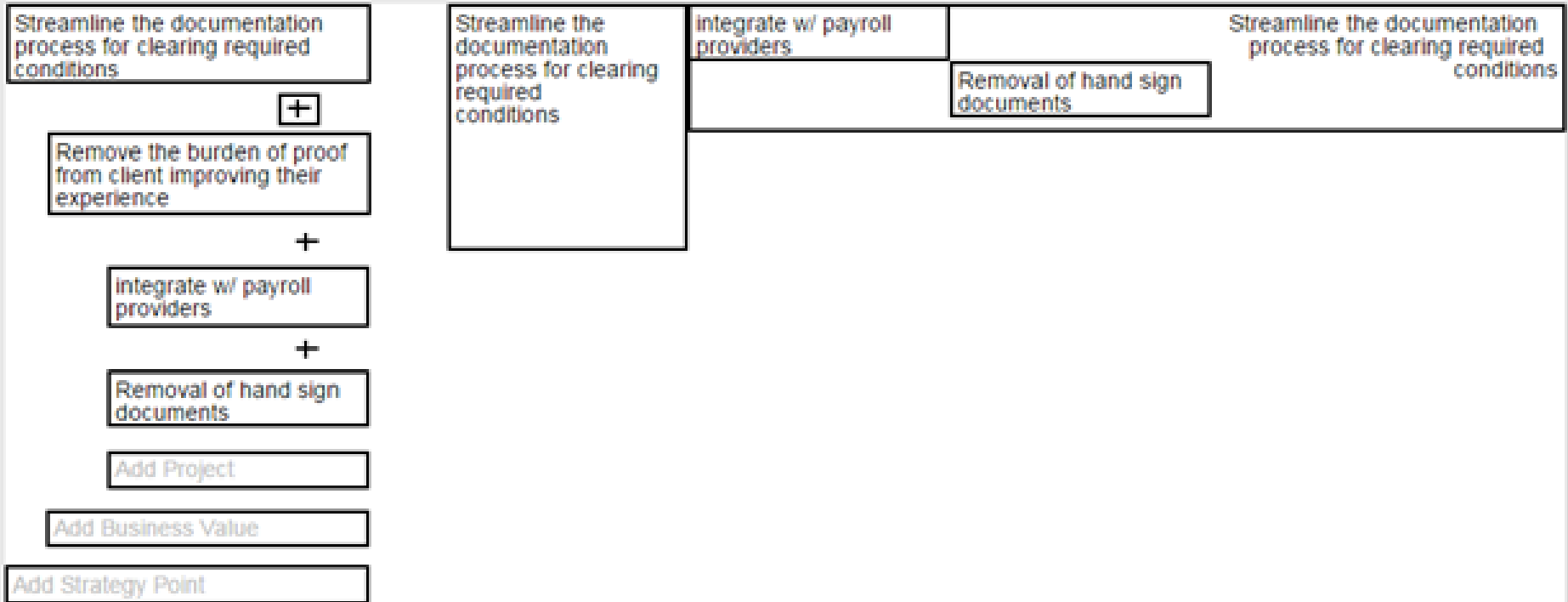
Streamline the documentation process for clearing required conditions



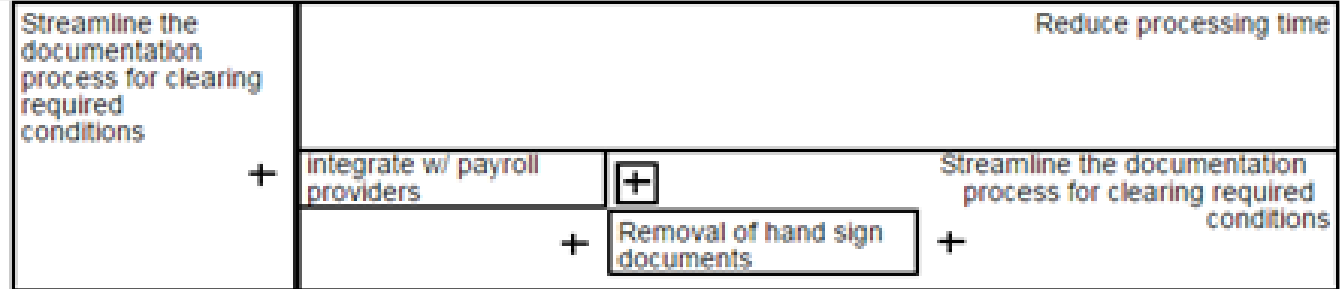
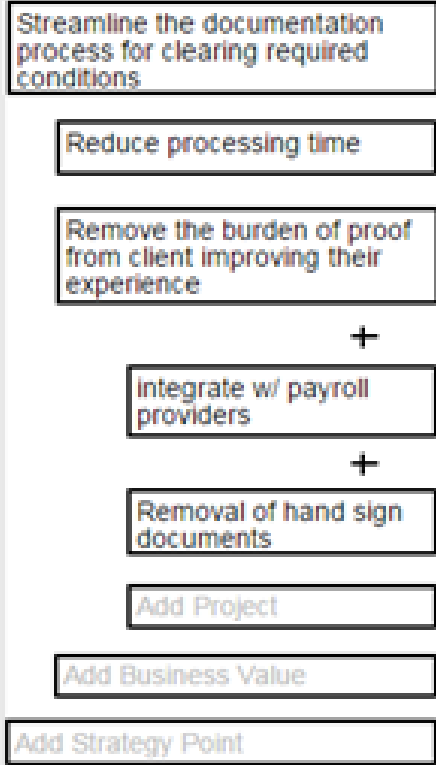
Screen Mockup: Data Input Mockup



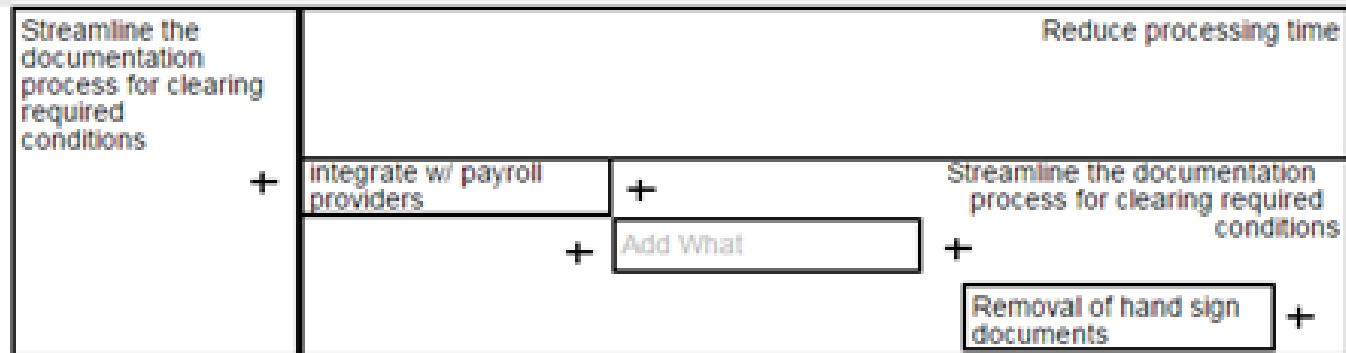
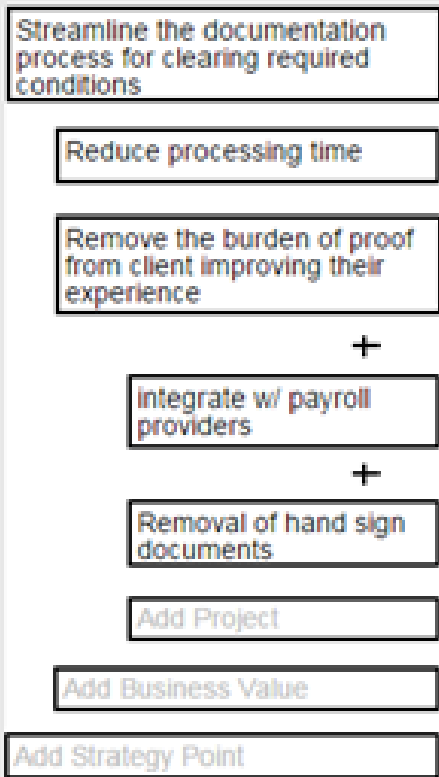
Screen Mockup: Data Input Mockup



Screen Mockup: Data Input Mockup



Screen Mockup: Data Input Mockup



Screen Mockup: Data Input Mockup

Streamline the documentation process for clearing required conditions

Reduce processing time

Remove the burden of proof from client improving their experience

integrate w/ payroll providers

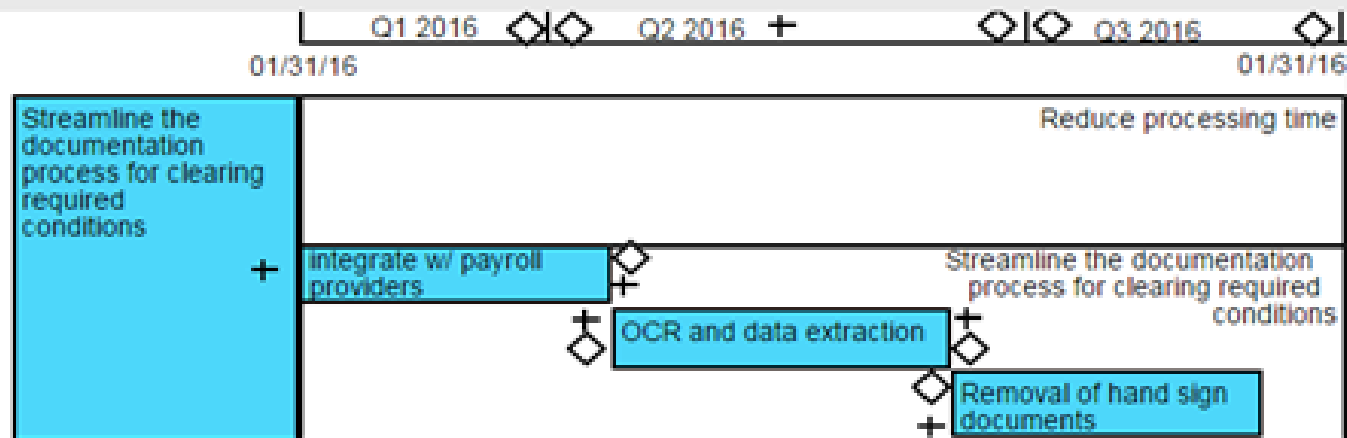
OCR and data extraction

Removal of hand sign documents

Add Project

Add Business Value

Add Strategy Point

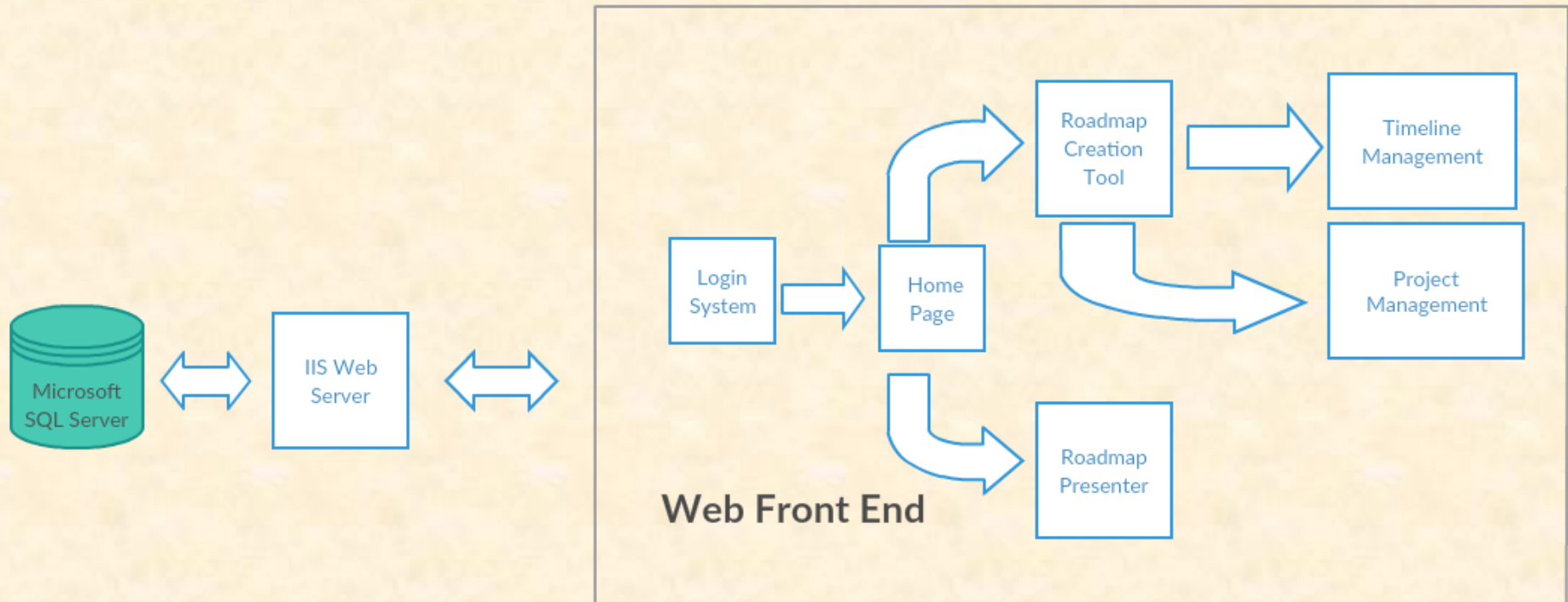


Technical Specifications

- Microsoft SQL Server
- IIS Web Server
- Web Front End
 - Login System
 - Roadmap Page
 - Roadmap Creation Tool
 - Timeline Management
 - Project Management
 - Roadmap Presenter



System Architecture



System Components

- Hardware Platforms
 - Microsoft Server 2012
- Software Platforms / Technologies
 - Microsoft SQL Server 2012
 - IIS Web Server
 - Visual Studio 2015



Testing

- Unit Testing
 - Microsoft Unit Testing Framework
 - Regression Testing
 - Track Progress
 - Identify problems
 - Identify Risk Areas
- Functional Testing
 - Weekly client consultations
 - Enterprise Architecture Team feedback sessions



Risks

- Visualization will be overly cluttered with excessive data
 - Hiding data in secondary layer on webpage
- Teams lack of web development experience
 - Choosing language with most team experience'
 - Using resources from Quicken Loans and the University
- Database and Webpage integration
 - Frequent full team meetings and group development
- UI effectiveness
 - User experience session with Quicken Loans
 - Quicken Loans has constant access to the progress

