

**MICHIGAN STATE**  

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**U N I V E R S I T Y**

# Alpha Presentation Fundamenta

The Capstone Experience

Team Quicken Loans

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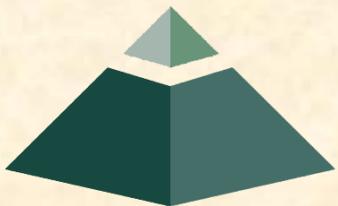
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*From Students...  
...to Professionals*

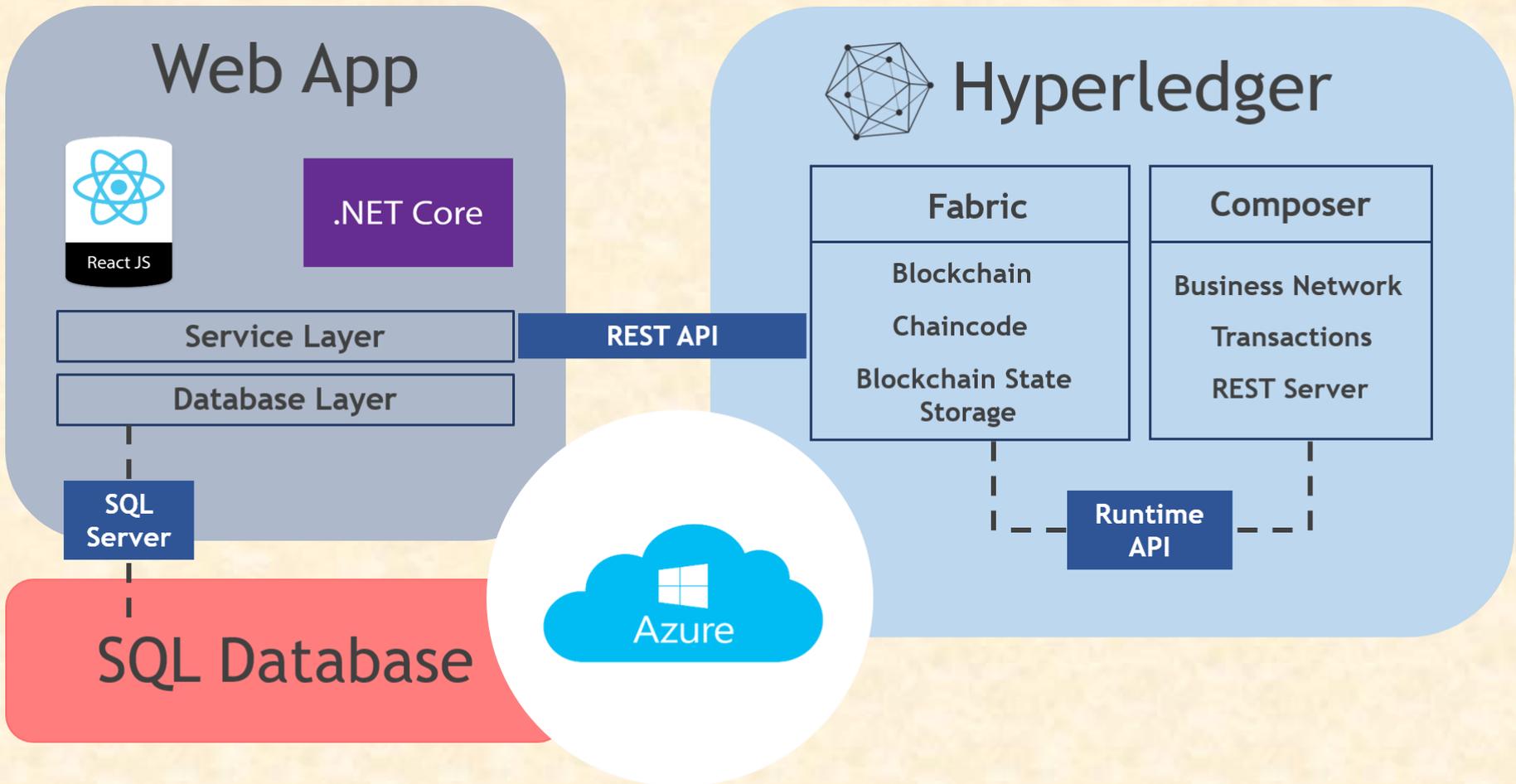
# Project Overview

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- Facilitates home building process
- Organizes participants involved in home build
- Displays workflow of home build
- Allows users to complete tasks
- Displays status of build
- Provides messaging capability between parties
- Manages workflow with blockchain technology
- Brings transparency to building process



# System Architecture



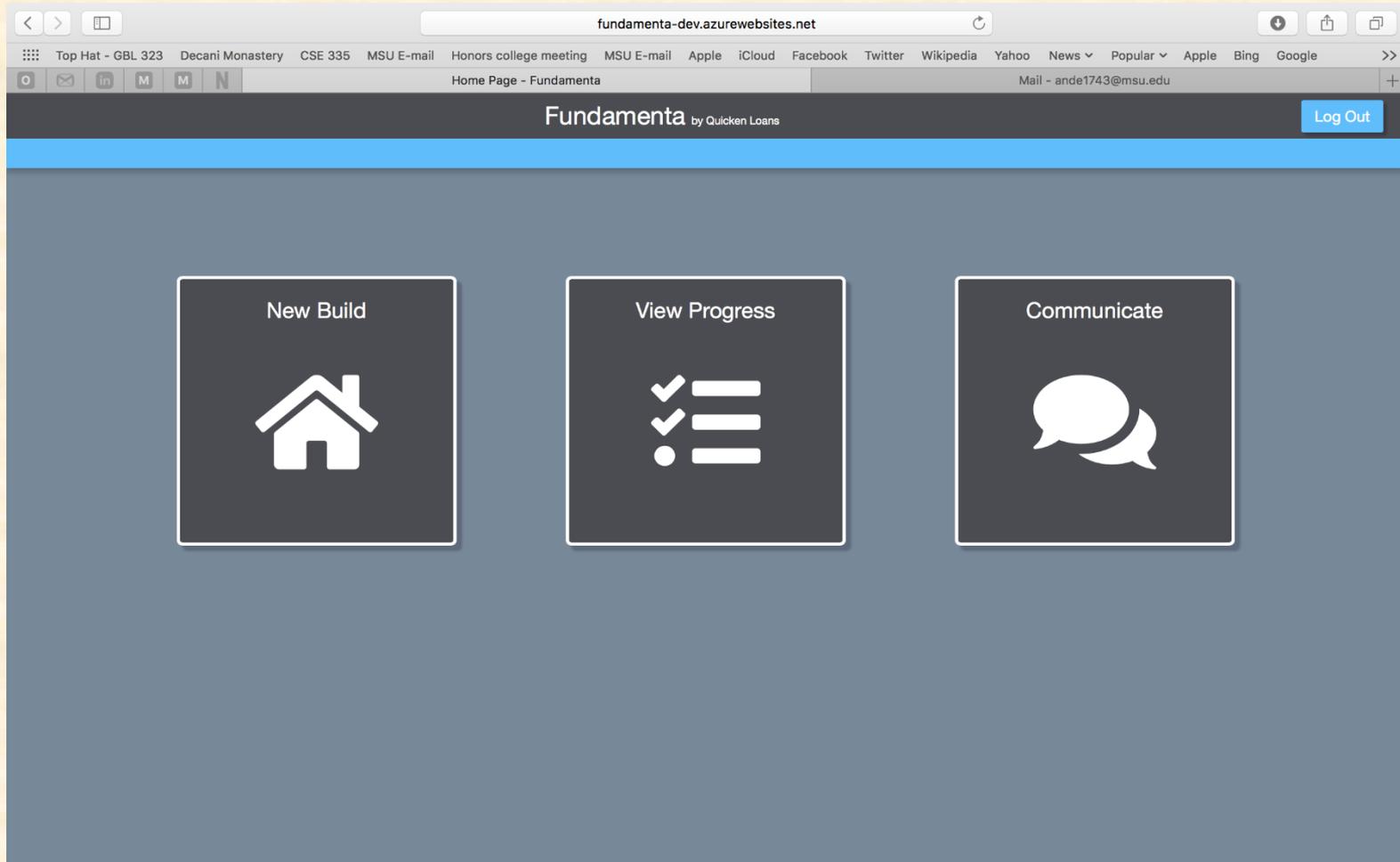
# Sign Up

The screenshot shows a web browser window with the URL `fundamenta-dev.azurewebsites.net`. The browser's address bar and tabs are visible at the top. The page header features the logo "Fundamenta by Quicken Loans" and a "Log in" button. The main content area is a dark blue gradient with a centered sign-up form. The form is a dark gray box with the following fields:

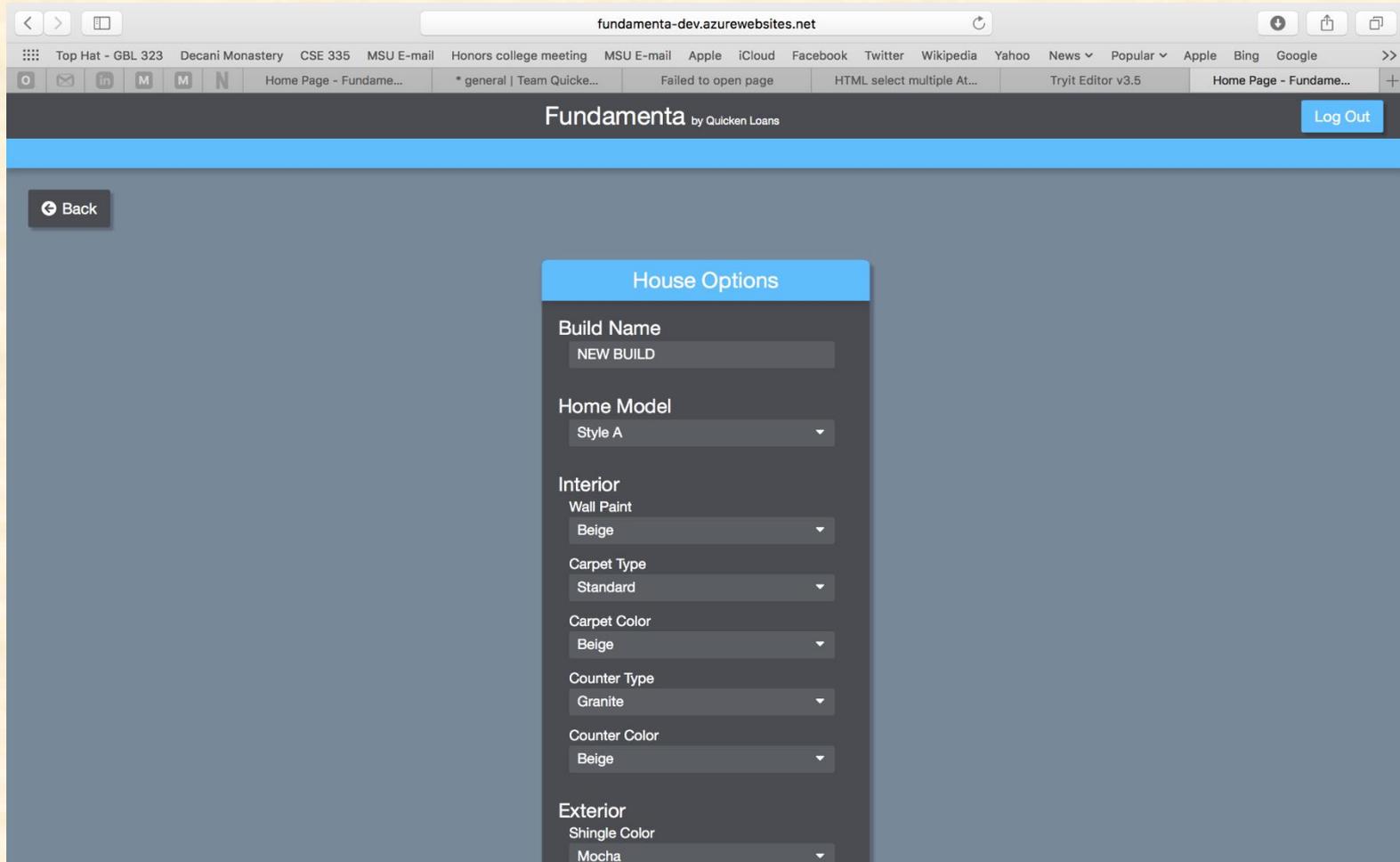
- First Name:
- Last Name:
- Email:
- Password:
- Confirm Password:
- Role:

A blue "Sign Up" button is located at the bottom of the form.

# Dashboard



# New Build



# Manage Builds

The screenshot shows a web browser window with the URL `fundamenta-dev.azurewebsites.net`. The browser's address bar and tabs are visible, showing various open pages like 'Top Hat - GBL 323', 'Decani Monastery', 'CSE 335', 'MSU E-mail', 'Honors college meeting', 'MSU E-mail', 'Apple', 'iCloud', 'Facebook', 'Twitter', 'Wikipedia', 'Yahoo', 'News', 'Popular', 'Apple', 'Bing', and 'Google'. The browser's address bar shows 'Home Page - Fundamenta' and the email address 'Mail - ande1743@msu.edu'.

The web application interface has a dark blue header with the text 'Fundamenta by Quicken Loans' and a 'Log Out' button. Below the header, there is a 'Back' button. The main content area is divided into two sections: 'Home Builds' and 'Contractors'. The 'Home Builds' section contains a list of five builds, each with a radio button and associated initials:

- Build 1 - DS JW
- Build 2 - JW AR
- Build 3
- Build 4
- Build 5

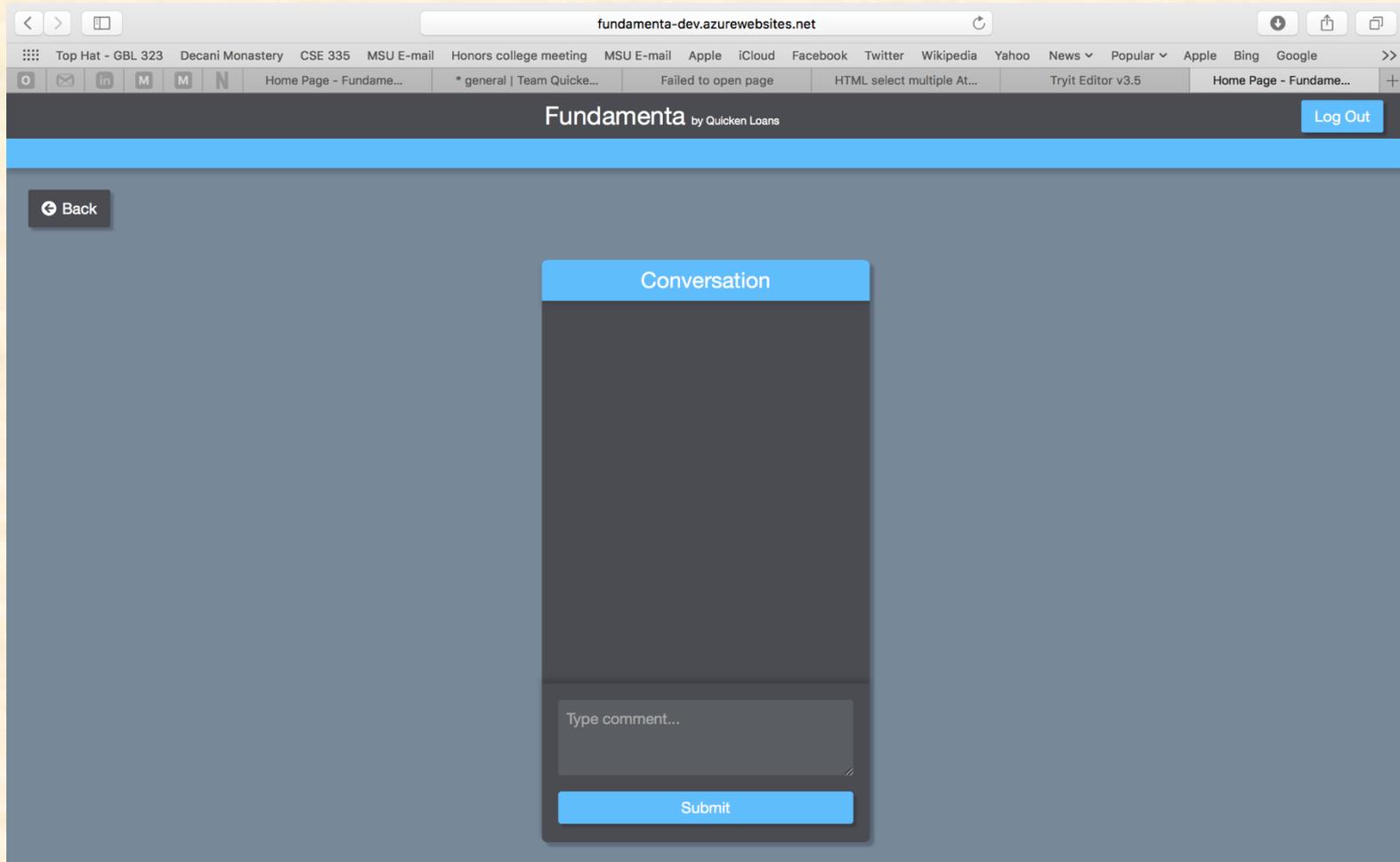
The 'Contractors' section is currently empty.

# Build Status

The screenshot shows a web browser window with the URL `fundamenta-dev.azurewebsites.net`. The browser's address bar and tabs are visible at the top. The page content includes a blue header bar with the text "Fundamenta by Quicken Loans" and a "Log Out" button on the right. Below the header is a dark grey area with a "Back" button on the left. The main content area features a "Progress" section with a blue header. This section contains a list of 10 tasks, each with a colored circle, a task name, and a date of "Feb 22".

| Color      | Task Name                      | Due Date |
|------------|--------------------------------|----------|
| Blue       | H Submit Home Specs            | Feb 22   |
| Grey       | CI Final Inspection Certifi... | Feb 22   |
| Blue       | B Submit Work Plans            | Feb 22   |
| Light Blue | C Submit Permit                | Feb 22   |
| Grey       | B Order Exterior Supplies      | Feb 22   |
| Grey       | B Order Interior Supplies      | Feb 22   |
| Grey       | B Assign Contractor Tasks      | Feb 22   |
| Grey       | C Complete Exterior Tasks      | Feb 22   |
| Grey       | C Complete Interior Tasks      | Feb 22   |
| Grey       | B Order Final Inspection       | Feb 22   |

# Communication Page



# What's left to do?

- MVP
  - Complete additional 8 steps in workflow
  - Finish display of all home builds user is involved in
  - Finish builder dashboard for assigning builds
  - Create admin page
  - Display blockchain visualization
- Post-MVP
  - Submit alerts to users with tasks
  - Add additional steps/extend options
  - Implement file/picture uploads
  - Connect to blockchain of QL sister company
  - Extend Hyperledger Fabric blockchain
  - Select lot in Google Maps



# Questions?

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