#### **MICHIGAN STATE** UNIVERSITY **Project Plan** Rally OKR (Objectives and Key Results) The Capstone Experience **Team Quicken Loans** Megan McCarty **Tony Sulfaro** Abi Venkat Nick Katarzynski Shicheng Wen Department of Computer Science and Engineering Michigan State University

Fall 2020

From Students... ...to Professionals

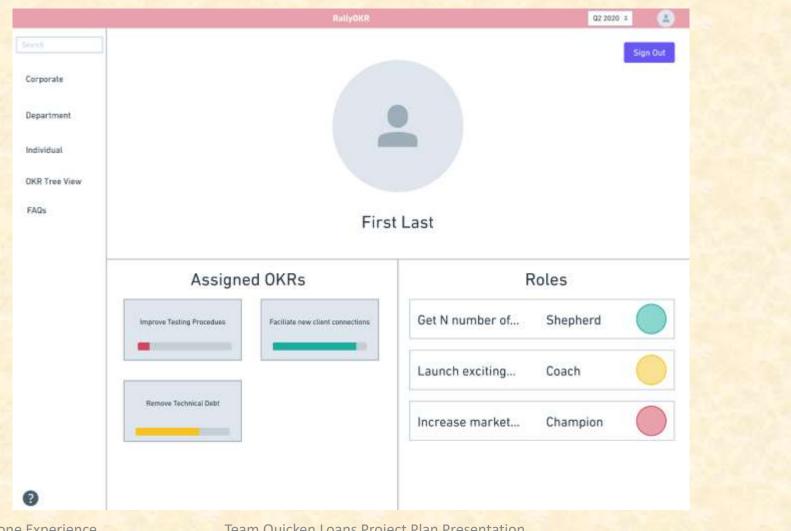
#### **Functional Specifications**

- User-friendly internal web application to track OKRs
- Allows employees to see relationships between OKRs
- Employees can comment on each OKR and KR
- Removes the need for endless spreadsheets
- Each role (ex. Champion or Shepherd) has specific permissions

### **Design Specifications**

- Each user will have a profile showing their current assignments
- Every public OKR will be visible as well as how it is connected to others
- Can see all details of the OKR and KR (ex. Health, progress, documentation)
- Users can anonymously grade an OKR
- Certain roles can edit the OKRs
- Users can comment and keep track of an OKR throughout its lifetime

## Screen Mockup: Personal View

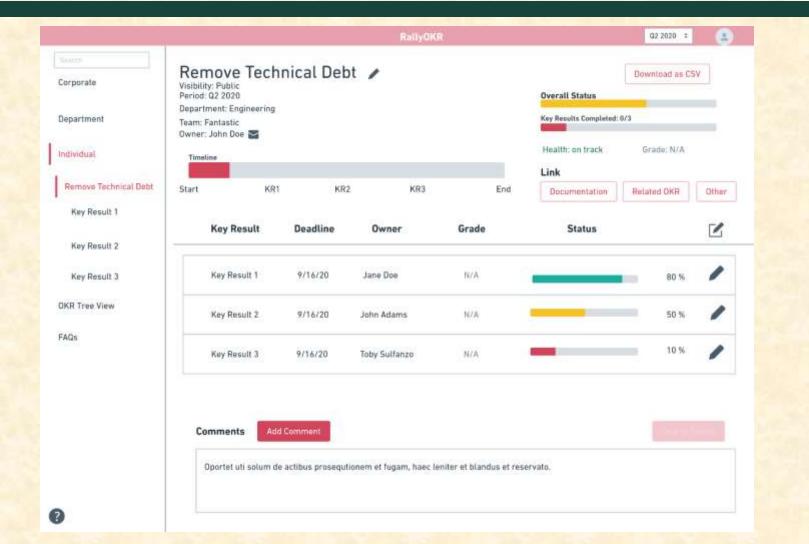


Team Quicken Loans Project Plan Presentation

## Screen Mockup: Hierarchy View

evel: Root Lvl. 1 Lvl. 2 Add OKR Add OKR evel: 1 Sales Get N number of new clients Launch exciting new product	Sharsh	RallyOKR	Q2 2020 🕴 🔔
evel: 1			_
	evel: 1		

# Screen Mockup: OKR Detailed View



The Capstone Experience

Team Quicken Loans Project Plan Presentation

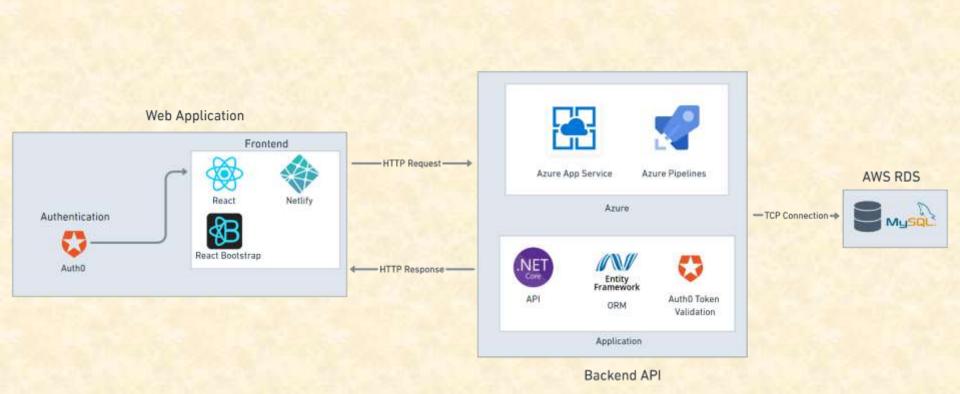
## Screen Mockup: Key Results View

Search	Key Result 2 🖉	Overall Status
Corporate	Period: 02 2020 Department: Engineering	Conde NUM
Department	Team: Fantastic	Grade N/A Deadline 9/16/20
	Owner: John Adams S Assignee(s): Megan McCarty, Nick Katarzynski, Abi Venkat, Shicheng Wen	Link
Individual		Documentation Grade Me Other
OKR Name	Description	
Key Result 1	Quae tibi placent quicung prosunt aut diligebat multum, quod memor sis ad come cupidum rerum in propria sunt ceramic calicem, admonere te solum Ceramic, qu si erumpit, non turbarentur.	
Key Result 2	Status	
Key Result 3	On Track	•
	At Risk	
OKR Tree View	Major Roadblocks	
FAQs	Not Started	
	Complete	
	Comments Add Comment	and the Market
	Oportet uti solum de actibus prosequtionem et fugarn, haec leniter et blandus et	reservato.

## **Technical Specifications**

- React (frontend)
  - React Bootstrap
  - React Router
- .NET Core API (backend)
- Auth0 for authorization
- Azure Pipelines used for CI/CD toolchain
- MySQL database hosted on AWS that contains mock employee and OKR data
- Entity Framework (ORM)

## System Architecture



#### System Components

- Hardware Platforms
  - Frontend application hosted on Netlify
  - Backend API hosted on Azure
  - MySQL database hosted on AWS RDS
- Software Platforms / Technologies
  - Frontend utilizing React

     Editor: Visual Studio Code
     React-Bootstrap CSS Framework

    Backend utilizing .NET Core

     Editor: Visual Studio
    - Entity Framework as the ORM

#### Risks

#### Mobile Application

- Completely new client to consume API. Adds significant development time
- Create a single web-client with a satisfactory mobile layout

#### Chat Feature

- Requirements were not initially well defined
- Met with client to elicit requirements for in-app chat feature
- Database Schema
  - Not allowed to have access to employee database. OKR schema not immediately apparent
  - Discussed custom schema with client that will be implemented after project handoff

#### **Questions?**

