Team Badgers

Skills/Knowledge Badging System



Design Review 2

Team Badgers Members



- Sponsors (State Farm Insurance): Glenn Austin, Dave Hopfensperger, Hans Yeazel
- Mentor: Sambashiva Kethireddy



Logan Ritter

- Team Lead
- Project Communicator
- Documentor



Tristan Marcus

- Development Architect
- Quality
 Assurance
- Lead Front-end
 Coder



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- 1st Release Manager
- LeadBack-endCoder



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Abdulrahman Alamoudi

- Front-end Coder
- Front-end Coder

The Problem



State Farm Insurance - Enterprise Technology in Tempe, AZ

- Work with all things tech
- 6,000 employees
- Majority are currently working virtually

Current Problems

- Lack of social interaction, motivation, and recognition that existed in the office.
- There is no current online rewards/recognition system
- Unable to view what other teams/coworkers are learning, achieving, or accomplishing without direct contact.

The Solution



Gamified Web based Social Media - Skills/Knowledge Badging System

- Single Page Application (SPA)
 - Interesting and responsive GUI
 - Secure login / User Authentication
 - Badge delivery system (send/receive/remove)
 - Badge printing
 - Internal social currency (Kudos)
 - Email signature integration (Via custom generator)

The product that we envision will be similar to a video game achievement system

Implementation Overview



Non-Functional Requirements Overview

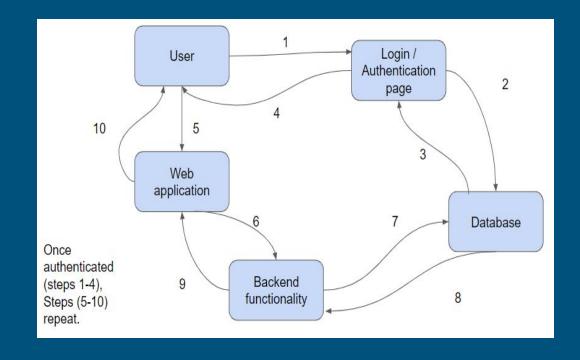
- Performance requirements
 - GUI easy to navigate and readable
 - Accounts creating and logging into an account will be sufficiently quick
 - Badges Simple way of viewing and sending badges with high resolution badge images.
 - Social Currency Simple way of sending and redeeming kudos
 - Security using a token instead of sending sensitive info over http request
- Environmental requirements
 - Application must be a single page
 - Must be easy to transfer over to State Farm

Implementation Overview Continued



Technologies

- Front-end ReactJS & Redux
- Back-end (express) NodeJS
- Database MongoDB
- Graphic Design Gimp





User
 Authentication/
 Log in system Every user will be
 able to create
 their own secure
 account. This will
 help provide
 security to the
 application.

WELCOME TO Team Badger's Skills and Knowledge Badging System
Log in to reward your collegues with badges.
Password SIGN IN
Don't have an account? Sign Up

Team Badger's
Skills and Knowledge Badging
System

Bring back the social enviornment that remote work has lost.

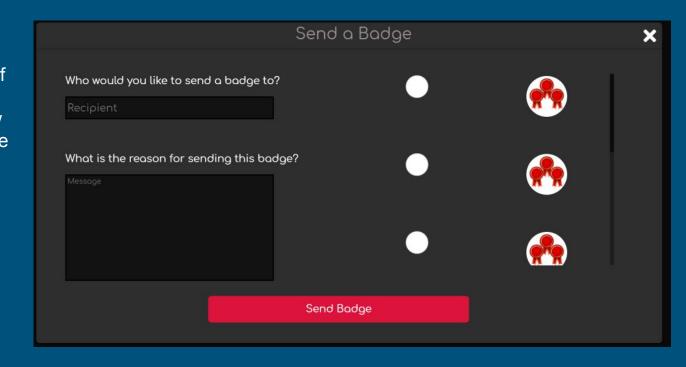
Acknowledge your colleagues by sending badges based on skills and achievements. Redeem kudos recevied from colleagues to redeem rewards.

Implementation Details



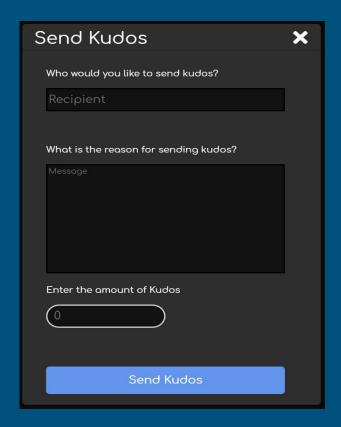
Main Components

Badge Delivery System This is the core feature of
 the product. Our badge
 delivery system will allow
 users to send and receive
 badges for various
 milestones and
 accomplishments that
 can be achieved while
 working at State Farm.
 Badges are meant for
 larger milestones.



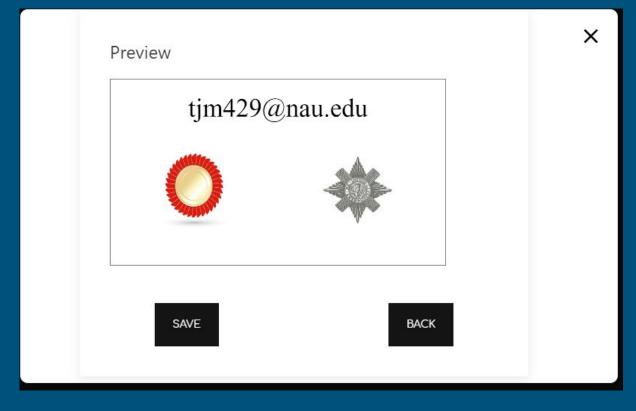


Kudos Social Currency We will have an internal
social currency called
Kudos that will allow
employees to send their
coworkers Kudos to be
redeemed for rewards set
by their managers. Kudos
are meant for the day to
day accomplishment.



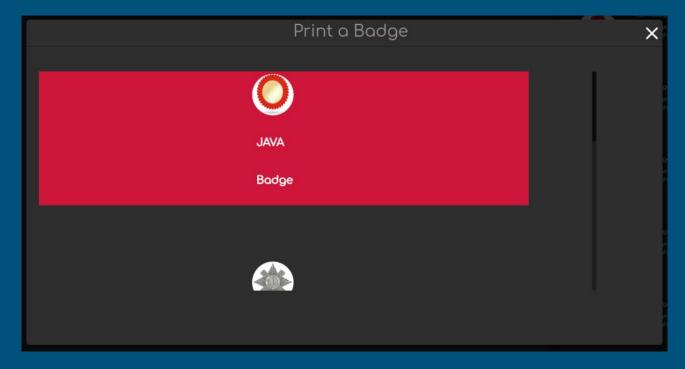


Email Signature
 Generator - Users will be
 able to generate a fully
 customizable email
 signature incorporating
 their earned badges and
 Kudos into the signature.
 Doing this will allow them
 to show off their
 accomplishments to their
 fellow employees.





 Badge Printing - We would like for every user to be able to download and print any of the badges that they have earned. This will allow a user to show off and be proud of their accomplishments.



Challenges and Resolutions



State management: Single page applications with user restrictions must enforce state management in order to keep the application displaying updated/accurate information.

 Use context, reducer in react hooks and creating appropriate actions to handle back end communication

User Authentication (middleware) - Making sure login sessions aren't manipulated and user's aren't logged in and out on data updates.

 Implementing a token based system to keep the user logged in and authenticated.

Schedule



	Team Badgers Implementation Plan															
	Week 1 (1/11-1/16)	Week 2 (1/17-1/23)	Week 3 (1/24-1/30)	Week 4 (1/31-2/6)	Week 5 (2/7-2/13)	Week 6 (2/14-2/20)	Week 7 (2/21-2/27)	Week 8 (2/28-3/6)	Week 9 (3/7-3/13)	Week 10 (3/14-3/20)	Week 11 (3/21-3/27)	Week 12 (3/28-4/3)	Week 13 (4/4-4/10)	Week 14 (4/11-4/17)	Week 15 (4/18-4/24)	Week 16 (4/25-4/30)
Foundation and Setup																
Connecting Components																
Security and User Authentication																
Badge Delivery System																
Kudos System																
Email Signature Generator																
Badge Printing																
Enhancment and Extra Features																
Testing		Tested Foundation and Setup	Tested Connecting Components	Tested Security and User Auth			Test Badge Delivery	Test Kudos System		Test Email Signature Generator		Test Badge Printing			Test new enhacements and features	Test new enhacements and features
			Le	gend:		Backle	og	In F	Progress	3	Cor	npleted				

Closing



- Client: State Farm Insurance Enterprise Technology, Tempe, AZ
- <u>Problem:</u> Lack of a system to acknowledge and reward employees for their work to help boost morale and productivity
- Solution: A gamified web based social media application that can award badges and social currency to employees
 - Components Secure login/User Authentication, Badge delivery system, Badge printing,
 Kudos social currency, and Email signature generator.
 - Technologies ReactJs, NodeJS, and MongoDB
- Risks and Feasibility: Possible risks lie in the security, storage, and copyright aspects of the project.