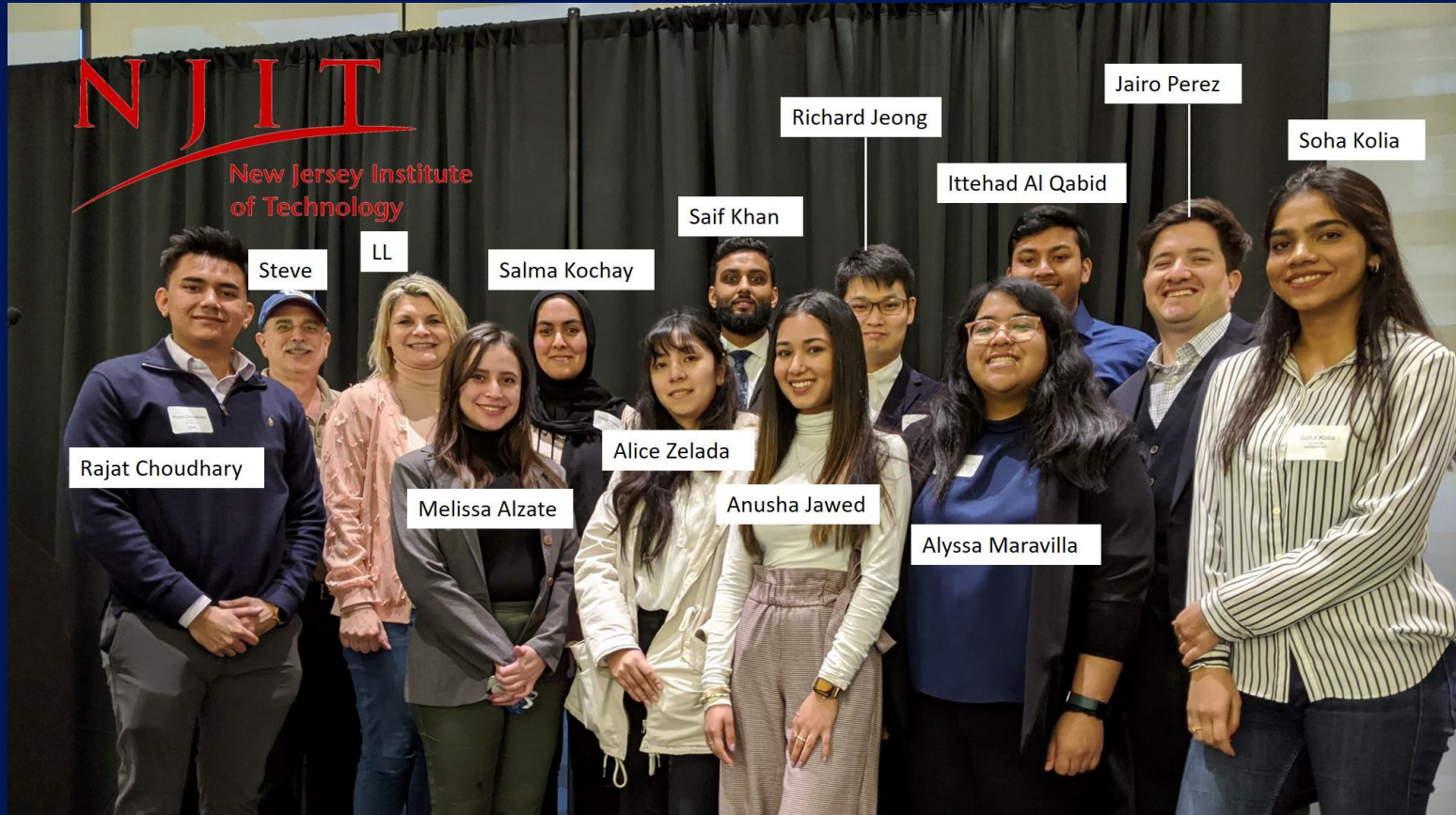




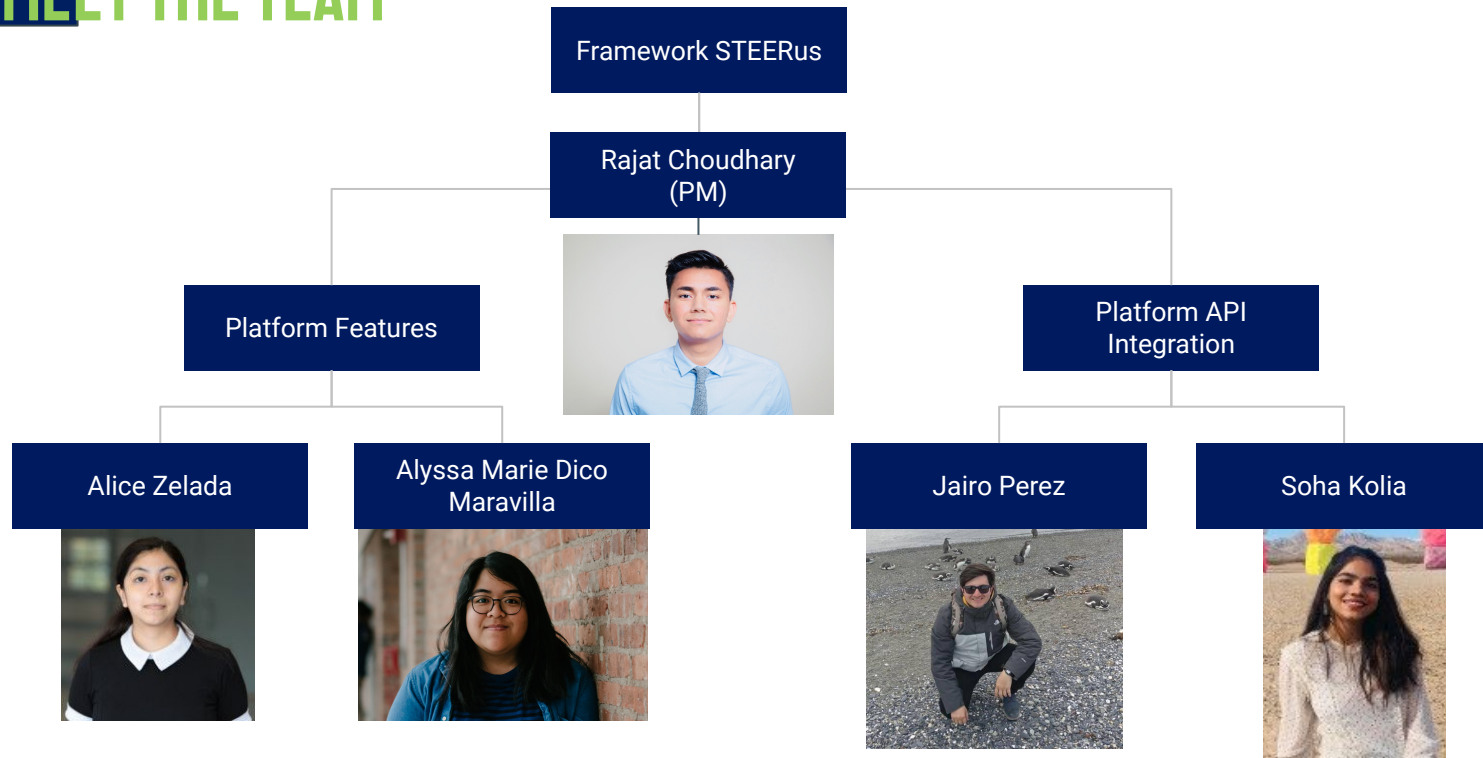
NJIT CAPSTONE SPRING 2020 FINAL DEMO

STEERus- Framework(backend)

BY: Rajat Choudhary, Alice Zelada, Alyssa Marie Dico
Maravilla, Jairo Perez, Soha Kolia



MEET THE TEAM





STEERus coaches on the soft-
skills we need.

Our **assignment** was to create
a digital platform to host
coaching content that connects
students to coaches.

GANTT CHART

Legend:

On Track

Low Risk

Med Risk

High Risk

Unassigned

Milestone Description	Category	Team	Assigned To	Progress	Start	End	No. Days
Story Implementation	On Track ▾	Framework ▾	Alice, Alyssa	100%	3/4/2020	3/8/2020	4
Testing	On Track ▾	Framework ▾	Alice, Alyssa	100%	3/8/2020	3/9/2020	1
User Profiles	Milestone ▾	Framework ▾	Alice, Alyssa	100%	3/1/2020	3/9/2020	8
Story Analysis/Design	On Track ▾	Framework ▾	Alice, Alyssa	100%	3/1/2020	3/4/2020	3
Story Implementation	On Track ▾	Framework ▾	Alice, Alyssa	100%	3/4/2020	3/8/2020	4
Testing	On Track ▾	Framework ▾	Alice, Alyssa	100%	3/8/2020	3/9/2020	1
API Integration of Telecom	Milestone ▾	Framework ▾	Jairo, Soha	100%	2/24/2020	3/9/2020	14
Story Analysis/Design	On Track ▾	Framework ▾	Jairo, Soha	100%	2/24/2020	2/28/2020	4
Story Implementation	On Track ▾	Framework ▾	Jairo, Soha	100%	2/28/2020	3/8/2020	9
Testing	On Track ▾	Framework ▾	Jairo, Soha	100%	3/8/2020	3/9/2020	1

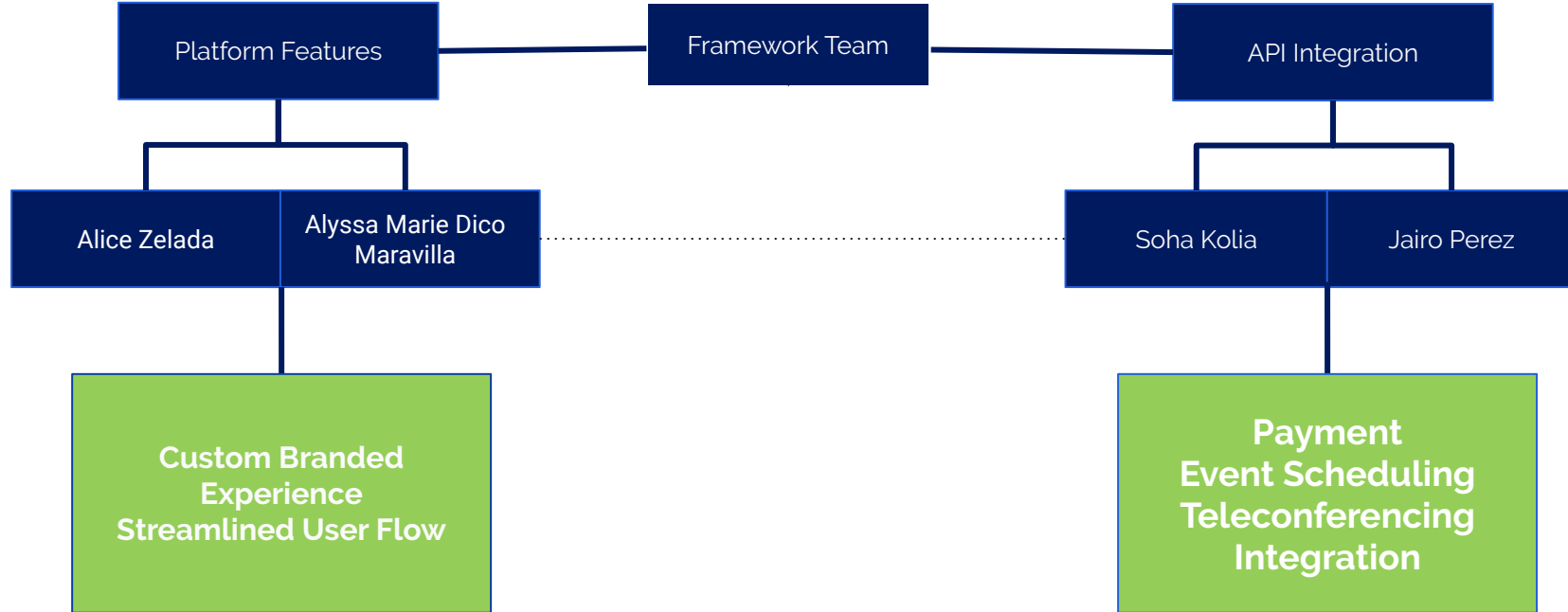
Subsystem



Team



Solution Focus



WHY USE MANGOAPPS?

An integrated solution is 10x better
than siloed tools

Integrated Platform

Seamless, Organized Experience

- ✓ One place to find, connect & learn
- ✓ Fully accessible from mobile
- ✓ Company knowledge in one place

High Adoption & Increased Productivity

- ✓ Promotes collaborative, open culture
- ✓ Fast & efficient sharing in real-time
- ✓ Clear tool purpose, little to no training

Inexpensive to Buy, Deploy & Maintain

- ✓ Easy, point-click, administration
- ✓ Secure & auditable
- ✓ Easy extensibility & customization
- ✓ Save more money by replacing other licenses

Siloed Tools

Frustrating user experience

- ✗ No central place to go to find, connect, learn
- ✗ Company knowledge is all over
- ✗ Inconsistent mobile access

Low Employee Engagement & Usage

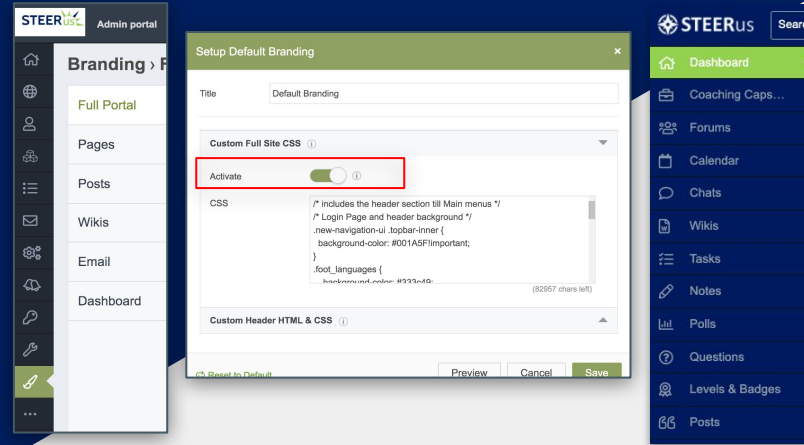
- ✗ Promotes non-collaborative, meeting-happy, culture
- ✗ Leads to waiting-around for email & info hoarding
- ✗ Many tool related confusion & chaos

Expensive to Buy, Deploy & Maintain

- ✗ Difficult to administer & manage
- ✗ Spotty security & auditability
- ✗ Expensive to customize
- ✗ License costs add-up quickly

THE PROBLEM

How do we determine what a user can or cannot access on a digital workplace platform like MangoApps?

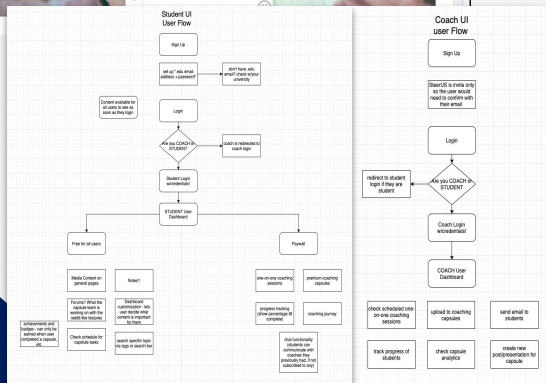
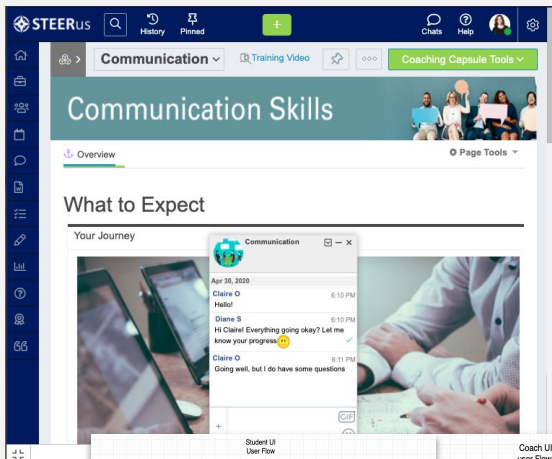


TECHNOLOGY ANALYSIS

Given the MangoApps platform, we were able to make an innovative user experience based on:

- Extensive UX research to design the best user flow for specific consumer types
- Applying best practices to leverage the web application to fit various needs and functions as well as ability to control them
- Created a custom branded experience that reflects the organization's design guidelines

WHAT WE DID



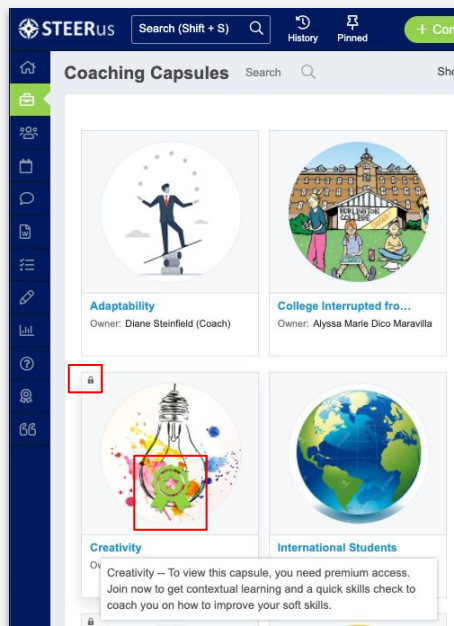
THE TECHNOLOGY

- Construct **coaching capsules** with branding changes on MangoApps framework
- Integrating **social media** features such as direct messaging, user reactions, commenting and creating posts
- Added **productivity tracking** features like tasks and progress reports

OUR SOLUTION

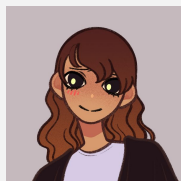
- ★ We **designed** a **user flow** that matches the needs for free and premium users along with a coach interface
- ★ To differentiate user interfaces, the **accessibility** for users is controlled based on admin privileges. **Free users are given restrictions**

DEMO SOLUTION - ESTABLISH DISTINCT ACCESS FOR USER TYPES



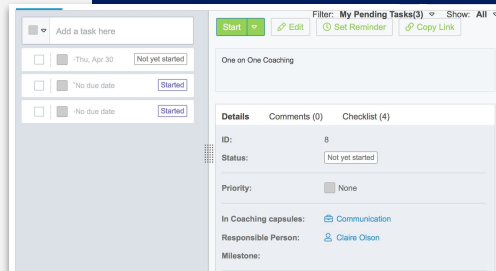
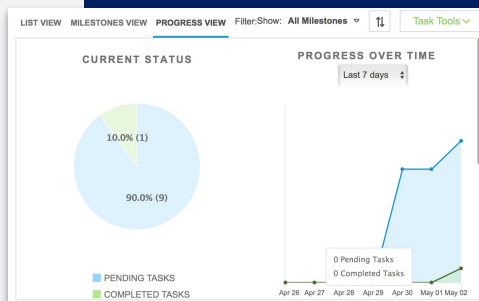
To view this capsule, you need premium access. Join now to get contextual learning and a quick skills check to coach you on how to improve your soft skills.

Join



FREE STUDENT

- Free users have general access to free capsules but are restricted from Premium features
- An attempt to access a premium coaching capsule will result in a "Join" call to action that urges them to sign up for a paid plan

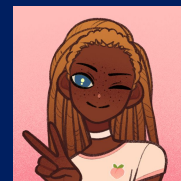


All Categories

Browse by Category

Free

Premium



★ PREMIUM STUDENT

- Only subscribed users are permitted access to Premium Coaching Capsules
- Premium user capsules have added features not available to free accounts such as progress tracking and one on one coaching

THE PROBLEM - SOHA & JAIRO

- Problem Identification:

How can we integrate third party applications to work together?

- Technical Analysis:
 - ◆ We determined what kinds of third party services we needed.
 - ◆ Researched if MangoApps has any built-in third party apps.
 - ◆ Enabled native features.
 - ◆ Found innovative solutions to integrate third party apps.
 - ◆ Configured third party applications to work together.

TEAM SOLUTION - SOHA & JAIRO

1, PAYMENT PLATFORM- PAYPAL

- Created a custom Wiki in MangoApps to integrate the paypal functionality.
- Used PayPal sandbox to create a customized paypal button.



2, SCHEDULING EVENTS - CALENDAR

- For users to create events and send invites we used the native calendar feature.
- Compatible with Google Calendar, iCal and Outlook.




3, STORING SESSIONS - AWS S3

- Integrated teleconferencing with AWS to store the video sessions.
- Designed a way to connect Join Me to the Calendar.



DEMO SOLUTION - SOHA & JAIRO



Calendar

Training Video
Show: Eve

Mon	Tue	Wed	Thu	Fri
27	28	29	30	1
4	5	6	7	8
11	12	13	14	15

aws

Services

Resource Groups

★

Amazon S3 > steerus

steerus

☐ Name

- ☐ Audio Stress - Session 1.m4a
- ☐ Audio Stress - Session 2.m4a
- ☐ Audio Stress - Session 3.m4a
- ☐ Audio Stress - Session 4.m4a
- ☐ Chat - Stress - Session 1.txt



Card Number

Expiration Date

CVV



LESSONS LEARNED

- Agile Methodology
- Research, Develop, Test & Implement
- Create innovative and creative solutions for an off the shelf commercial tool such as Mango Apps