

Pariveda Capstone C3



Closeout Meeting
April 23, 2020

Agenda

Pariveda Capstone C3
Closeout Meeting
April 23, 2020

1. Project Vision
2. Road map
3. Technologies
4. Current Architecture
5. Timeline of Project
6. Demonstration
7. Deployment Plan
8. Closeout Documentation

9. Q&A

PARIVEDA



Culverhouse
College of Business

Project Vision: A Comprehensive Community Hub

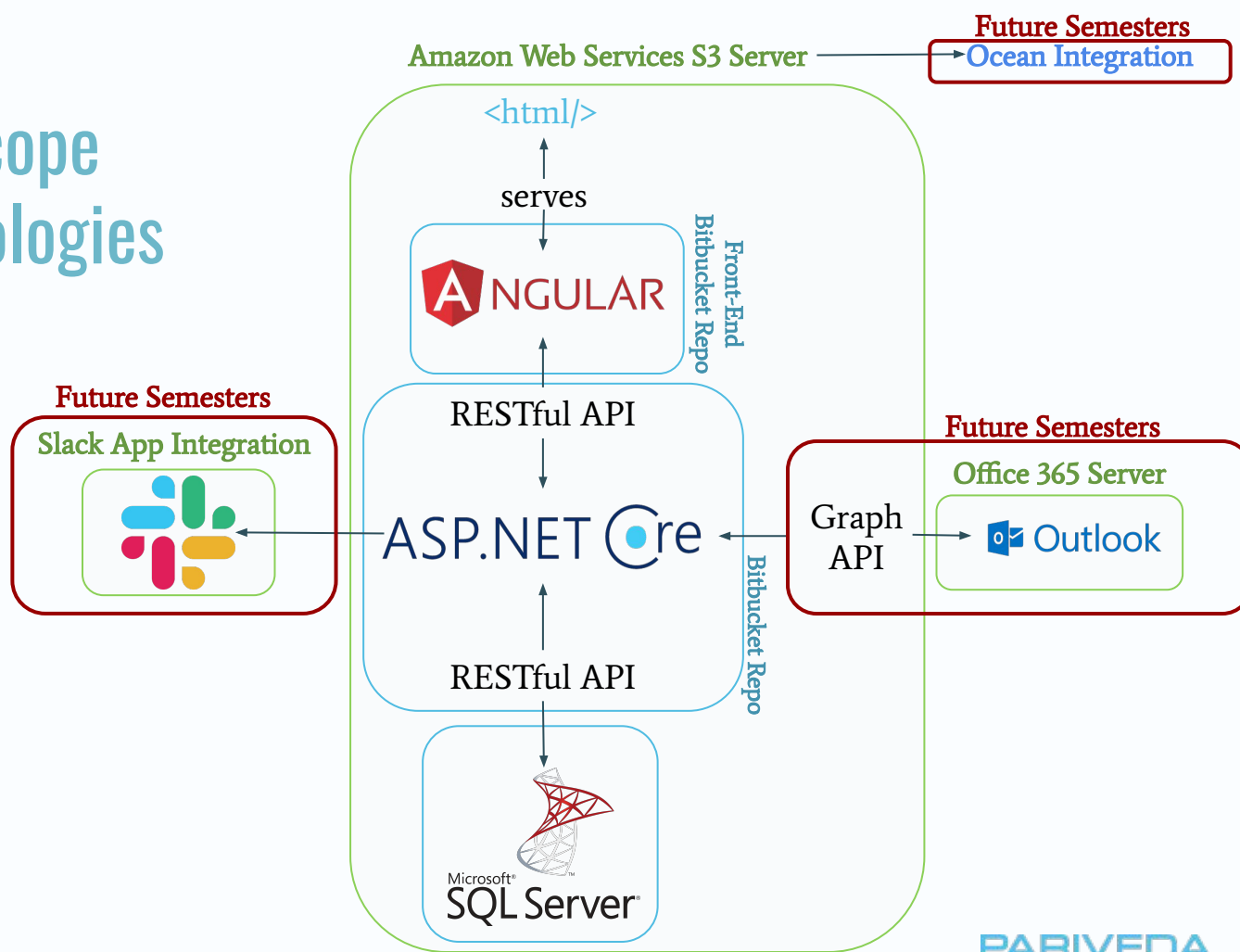
- Opportunity: Promote and formalize how fins feel connected as if they were part of a family through a Community Hub

Define and Track Intent/Actions/Activities	Encourage and Facilitate Communication	Incent C3 Behavior and measure progress
<ul style="list-style-type: none">- Tracking of events, organizations, attendees, and hours	<ul style="list-style-type: none">- Integrating with current communication standards- Locate the app somewhere that Fins already are	<ul style="list-style-type: none">- Competitions between groups- Analytics used to encourage attendance, target communications, and track participation

Scope and Roadmap

- What does our app do:
 - Tracking organizations that Pariveda works with
 - Tracking community service events that Pariveda is having
 - Tracking attendance for all events
- What our app does not do:
 - Competitions (Gamification)
 - Comprehensive user management
 - Communication Integrations: Slack and Outlook
 - Analytics

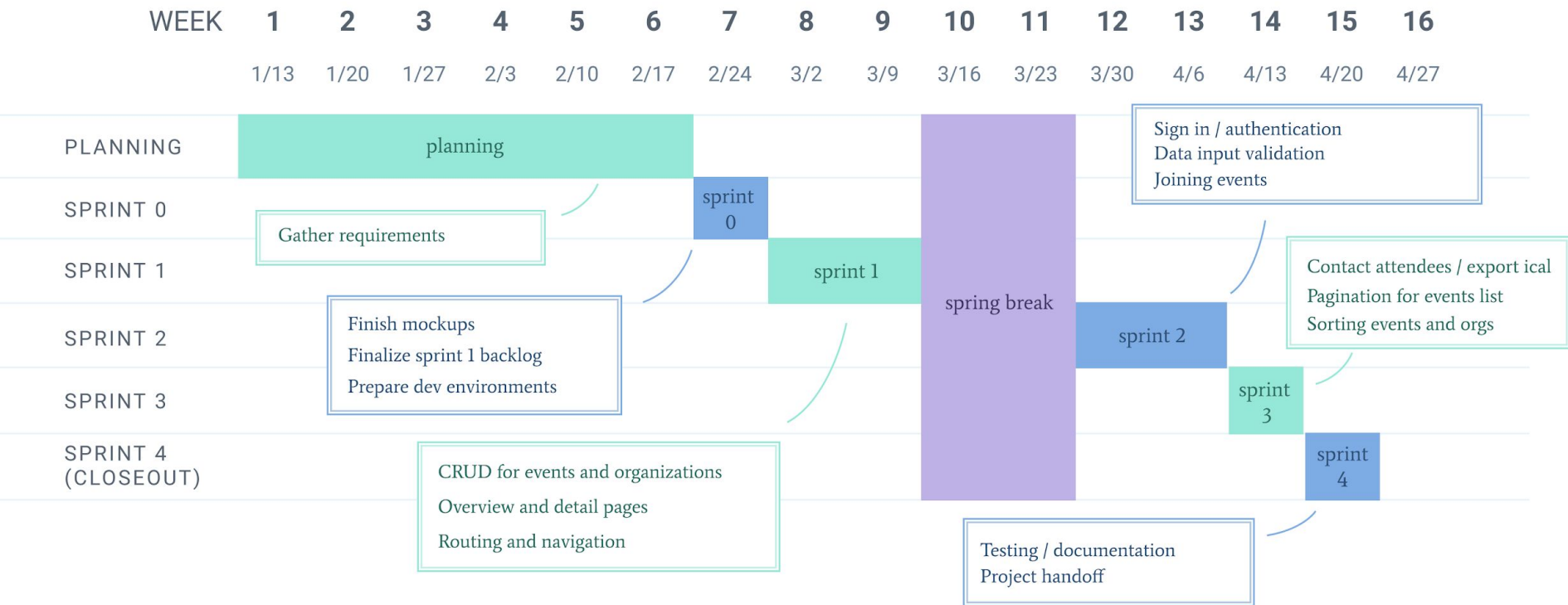
Full-Scope Technologies



Application architecture for Current Scope

- Choice between Slack App or Microservices approach
- Why we chose Microservices
- Why we chose the three layers
 - Angular for Ocean Integration
 - Asp.Net Core for Outlook Integration and Capstone team familiarity
 - Sql Server for best integration to Asp.Net Core
- Why we did not use last semester's project
 - OAuth Difficulties; Not needed because of Ocean
 - Single app architecture less flexible than microservices

Project Timeline



Demonstration of C3:

Deployment Plan

- James and Matt working to deploy in the next few weeks
- Next they are going to approach Internal IT about managing the app in between semesters.
- Current plan is to let Event Leaders use and test the app before next semester
- Estimated deployment cost (per Matt)
 - About \$50 per month for one S3 instance on AWS
- Future development team plans to use a pipeline for continuous deployment

What's next for C3?

- Integrations



- Outlook

- Have created value this semester through research
 - Sync with calendars for invitations & updates



- Ocean

- Deployed here
 - Matches UX style



- Slack

- For quick updates and communications

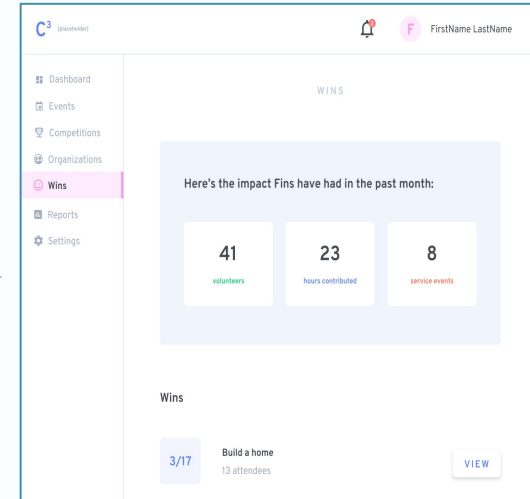
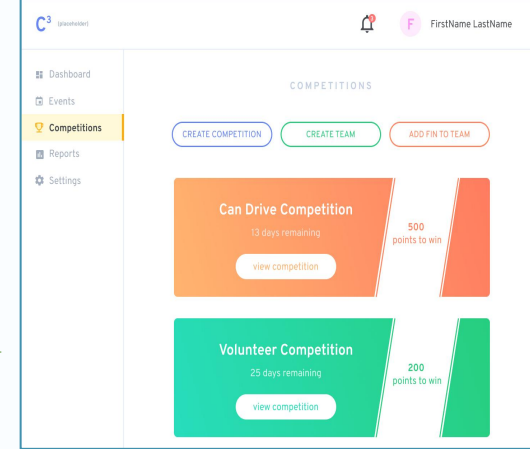
- User management

- Draws information from Ocean
 - Allows email/calendar functionality

- Gamification

- Customizable & simultaneous competitions among fins

- Reporting



Documentation

- Jira Backlog
 - Completed functionality
 - Not yet completed
 - Known bugs
- Functional design
 - Database design, flowcharts, user stories, activity diagrams
- UI design
 - Pariveda Style Guide
- Testing Documentation
 - Common Use Cases, DB Connectivity, Data Validation
- Developer's Manual
 - Quick Start guide, Tech Stack tutorials, Project Vision
- Templates for meetings, presentations, etc.

Current Issues

- Need to plan for Outlook and Slack development environments for use in developing and testing integration with our web app
- Need to create a change management plan for production deployment and implementation of our app
- Need to determine handoff team for next phases (either Capstone team or else Pariveda Fins)

Future Risks

- Chaos around Corona virus and shifts in Pariveda priorities may cause any deployment and use of the app to be pushed back until next semester
- Use of MS-Graph to integrate web app with Outlook proves to be more complex and less functional than we plan
- Ability to integrate with Slack is not well- researched and may prove to be challenging
- Initial production adoption by Fins in Dallas may be challenged because of insufficient currently-delivered application functionality
- Future deployment into the Ocean website could prove to be more challenging than initially thought

Feedback & Questions

...

+ Thank you!