Project Plan Presentation
Evolutio Project Reporting Tool

The Capstone Experience

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Project Sponsor Overview

• Evolutio is a small technology consulting company
• Has around 30-40 employees, headquartered in Chicago but has international reach as well.
• Assists clients in projects involving observability, automation, cloud management, security and data
Project Functional Specifications

• Evolutio struggles with finding a way to present key information to their stakeholders in an organized/timely manner.

• Team Evolutio is creating a project reporting tool that will allow consultants and clients to oversee projects and progress through status reports, progress timelines, and task overviews.

• Consultants and stakeholders alike will be able to share key information through a dynamic exportation feature.
Project Design Specifications

• Support generation of multiple exportable formats.
• Reports will be customizable for each format.
• Regularly run scheduled reports that are automatically sent to clients.
• Tool will be split into a project dashboard, status update summary, task list view summary, and a progress timeline summary.
Screen Mockup: Dashboard/Landing
Screen Mockup: Project Status Update

Owner: Jordan Cobe  Engineer: Jon Dressel

Latest Status Update

Status: On Track  Date: Jan 17, 2023

Summary:

- AppD in a containerized environment:
  - Provided docs and discussed node property that could be used
  - Explained how apps, tiers, nodes map to a k8s environment
- Lack of server and container apm correlation for k8s workloads
- Discussed enabling infra visibility and enabled instructions around container correlation
- Discussed automatic instrumentation

Next Steps:

- Apple to open support ticket around using custom SSL certs for the machine agents via helm charts
- Apple to test appdynamics.agent.reuse.nodeName in UAT environment

View Project Timeline
Screen Mockup: Project Timeline
Screen Mockup: Project Task List View
Project Technical Specifications

• Frontend: Utilizing Next.js and React.js, the Evolutio Project Reporting Tool offers a responsive and user-friendly interface, ensuring quick and efficient project reporting experiences.

• Backend: Powered by Node.js and integrated with a SQL database, the backend ensures efficient data processing and secure management, catering to complex reporting needs.

• Middleware and Integration: The reporting tool is secured with Okta's identity management, and its real-time synchronization with Asana's API enhances the accuracy and timeliness of reports.
Project System Architecture

Asana API

Backend Technologies

Internal API

Evolutio Project Reporting Tool

Node - cron

PostgreSQL

Express - JS

NEXT.js

Okta
Project System Components

• **Software Platforms / Technologies**
  • **Next.js Frontend**: Enables fast, optimized experiences with server-side rendering.
  • **React.js UI**: Ensures a scalable, interactive user interface.
  • **Node.js Backend**: Manages asynchronous events and heavy I/O efficiently.
  • **Express Framework**: Facilitates smooth frontend-backend data flow.
  • **SQL Database**: Guarantees data integrity and supports complex queries.
  • **Okta Security**: Provides strong authentication and role-based access.
  • **Asana Integration**: Allows real-time project data sync for up-to-date reporting.
  • **Scalable Architecture**: Ready for future expansions with additional features.
Project Risks

• Data Extraction and Integration from Asana
  ▪ Receiving the information in Asana using the core API can be time/resource consuming
  ▪ We plan to analyze developer examples that utilize the API and thoroughly test the calls we make

• Email Scheduler Security and Integration
  ▪ Implementation of an email scheduler to answer a client pain point without compromising application function or security
  ▪ We will Research any implementations in current applications the sponsor may have, and look into developer examples we found

• Customizable PDF Report Generation
  ▪ The project requires the capability to generate PDF reports that are not just functional but also customizable.
  ▪ We will look into technologies such as Apache PDFBox or iText to create a flexible template system

• Integration with Okta and Adoption Compatibility
  ▪ Unaware on process of implementing Okta for user verification
  ▪ Research Github Repositories and have specific times set to research documentation. Also Communicate with sponsors to ensure easy migration
Questions?