

TRILLIUM HEALTH GRANT MANAGEMENT

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Software Engineering Department Senior Project - 2015



Background

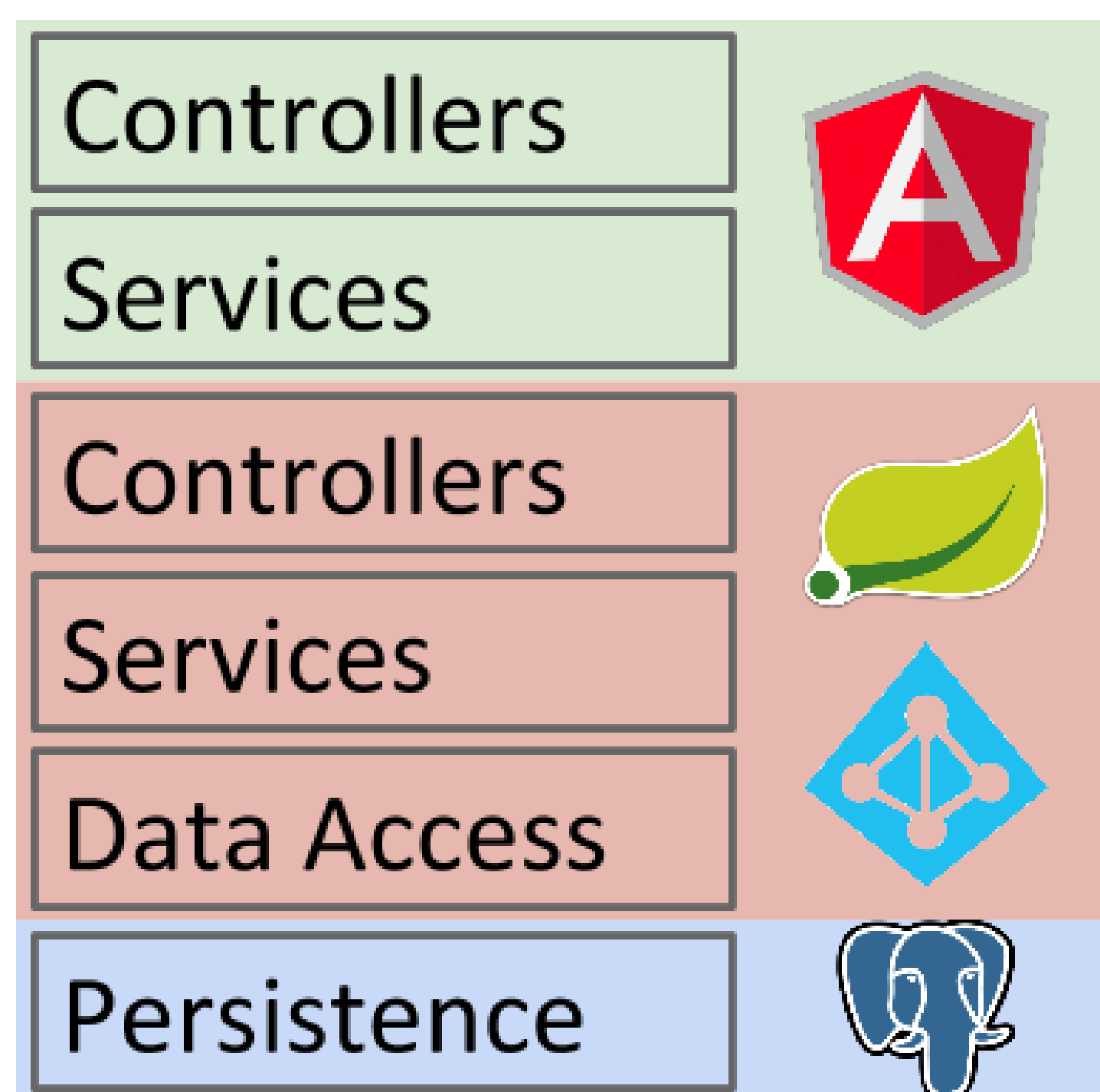
Trillium Health is a non-profit organization that provides a variety of health care services. Most funding is based on grants received from federal, state and local authorities

Objectives:

- Allow users to manage active and potential grants
- Alert users when a certain task is due
- Store documents and revision history throughout the grant process
- Gather all the documentation for auditing and compliance purposes

Design

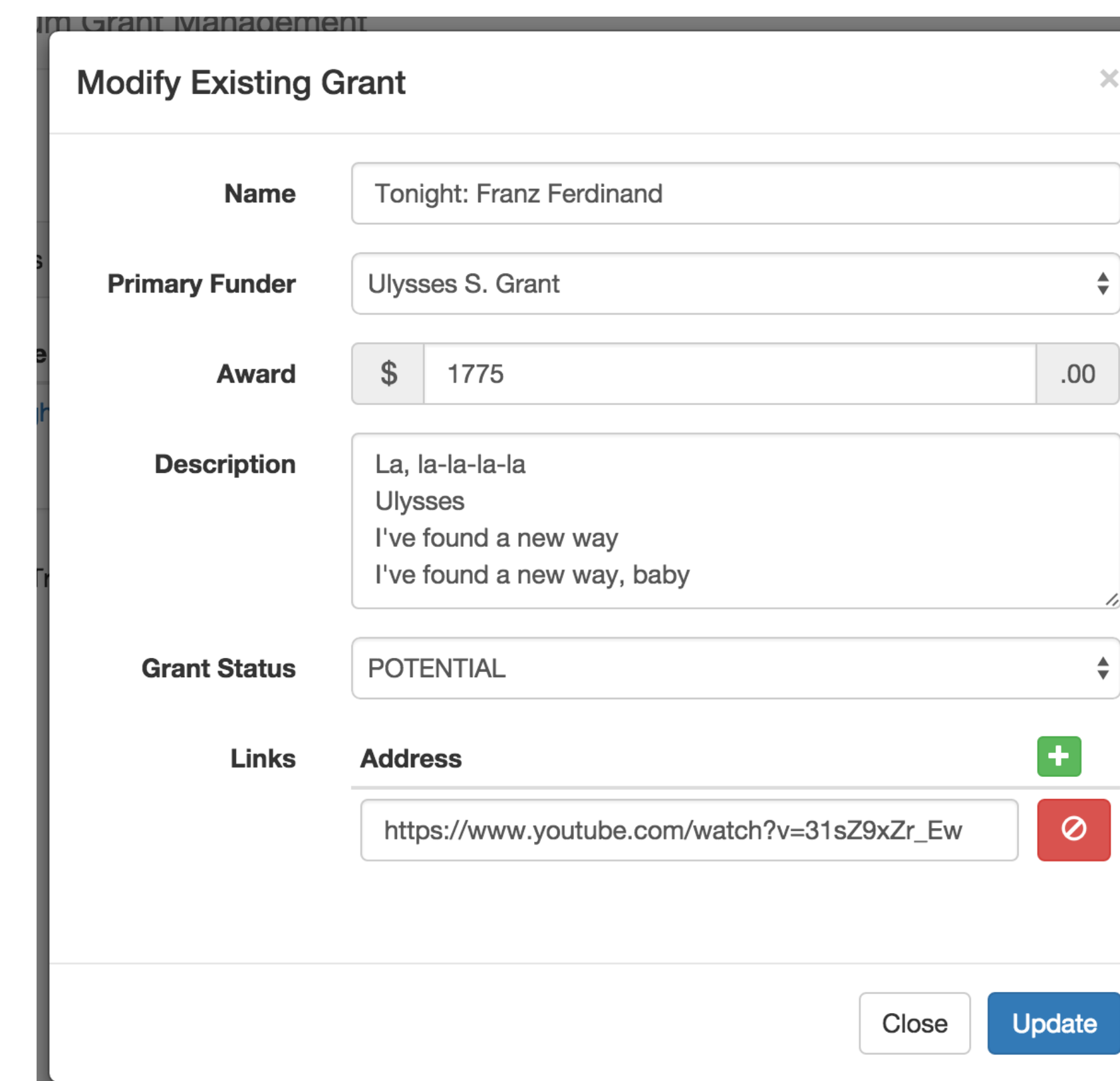
We use the **Spring** framework in the application layer to integrate together the **REST Services**, DAOs, and the Model which includes **Hibernate** and JPA annotations to persist objects to the database. The client layer uses **Angular JS** to interact with the services.



System Features

- Grant** Keep track of grant status (Active, Potential), award information, and contacts
- Documents** All grant related documents can be stored within the grant document library or specific tasks
- Tasks** Create your own tasks for each grant and workflow with due dates and custom reminders
- Workflows** Create and repeat grant workflows for different stages (Apply, CFA, Audit, etc)
- LDAP** Connect with Trillium's currently in place Active Directory system for users and account info
- Reminders** Send emails and update on Microsoft Outlook Calendar when tasks are due

Delivered Product



Technologies



Retrospective

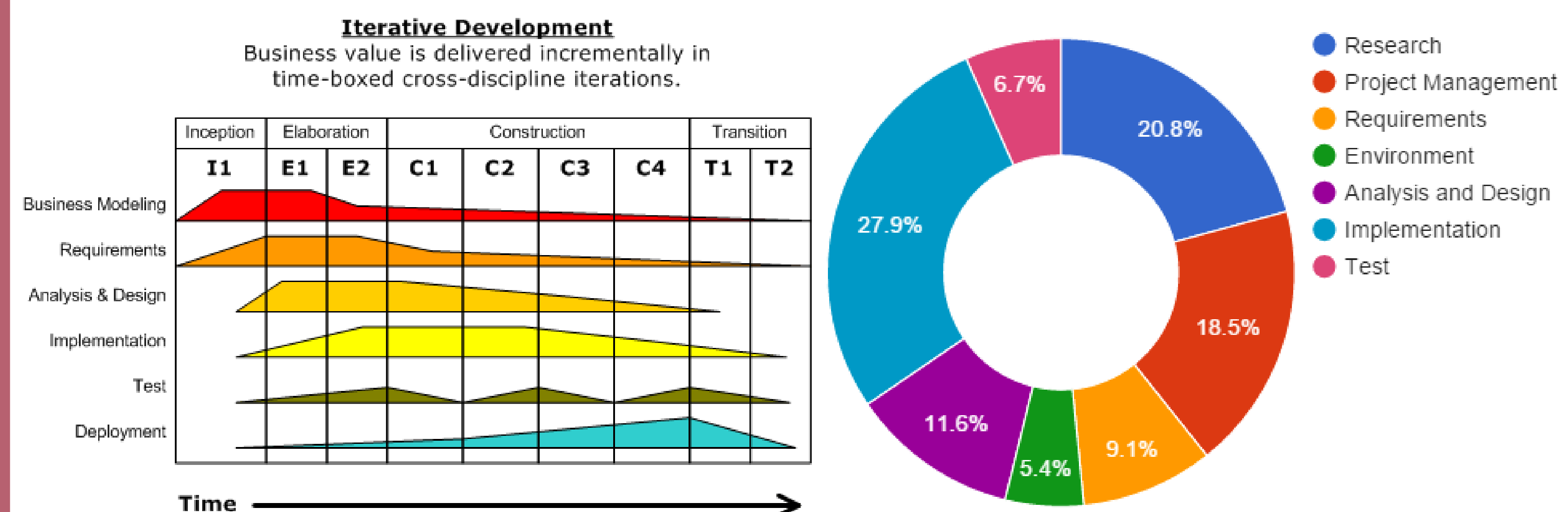
- Code Reviews helped with team synergy
- Not revisiting original risk estimates was costly
- Using Trello to assign tasks has gone well
- Great customer involvement and feedback

Future Work

- Further integration with Outlook
- Document tagging for categorization
- Recycling bin features for deleted documents/tasks/grants
- The ability to proxy as another user
- Viewing documents within the system

Rational Unified Process

Risk Mitigation; Iterative Development; Upfront Scoping in the Inception Phase



* As of 4/14/15