

Project VIOLET

KV Audit Level 1b
Software Development



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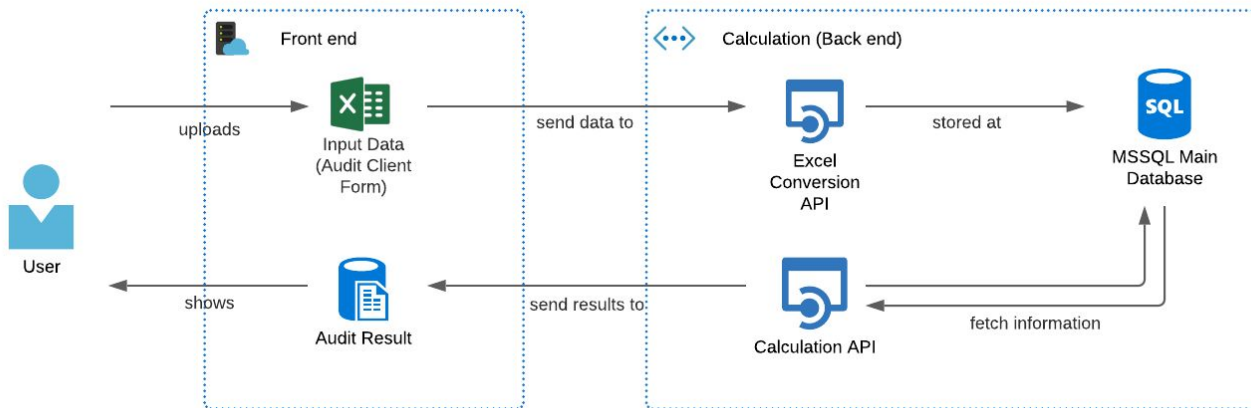
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Background

Our Client - Australian Clinical Dosimetry Service (ACDS)

Project VIOLET - Voltage Integration Over Low Energy Therapy



The Redback Team



Product Owner

Xinyu Zeng



Scrum Master

Caleb Wang



Frontend Leader

Fangtai Dong



Backend Leader

Yipeng Li



Quality Assurance

Haoran Zhao

Development View

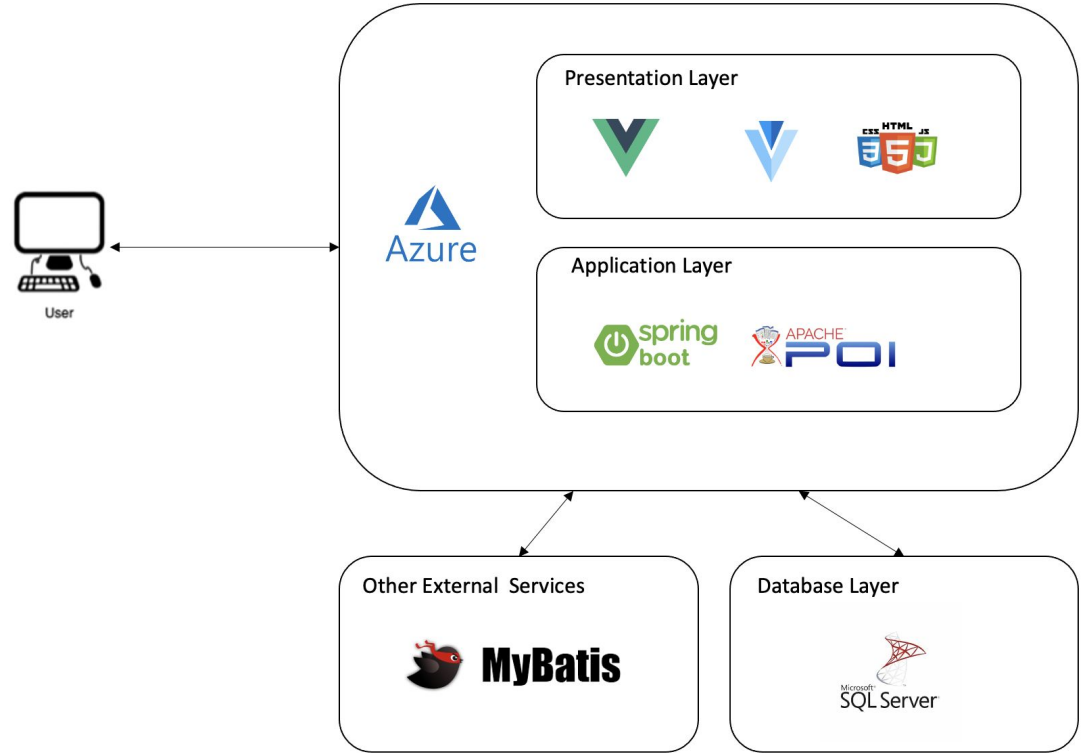
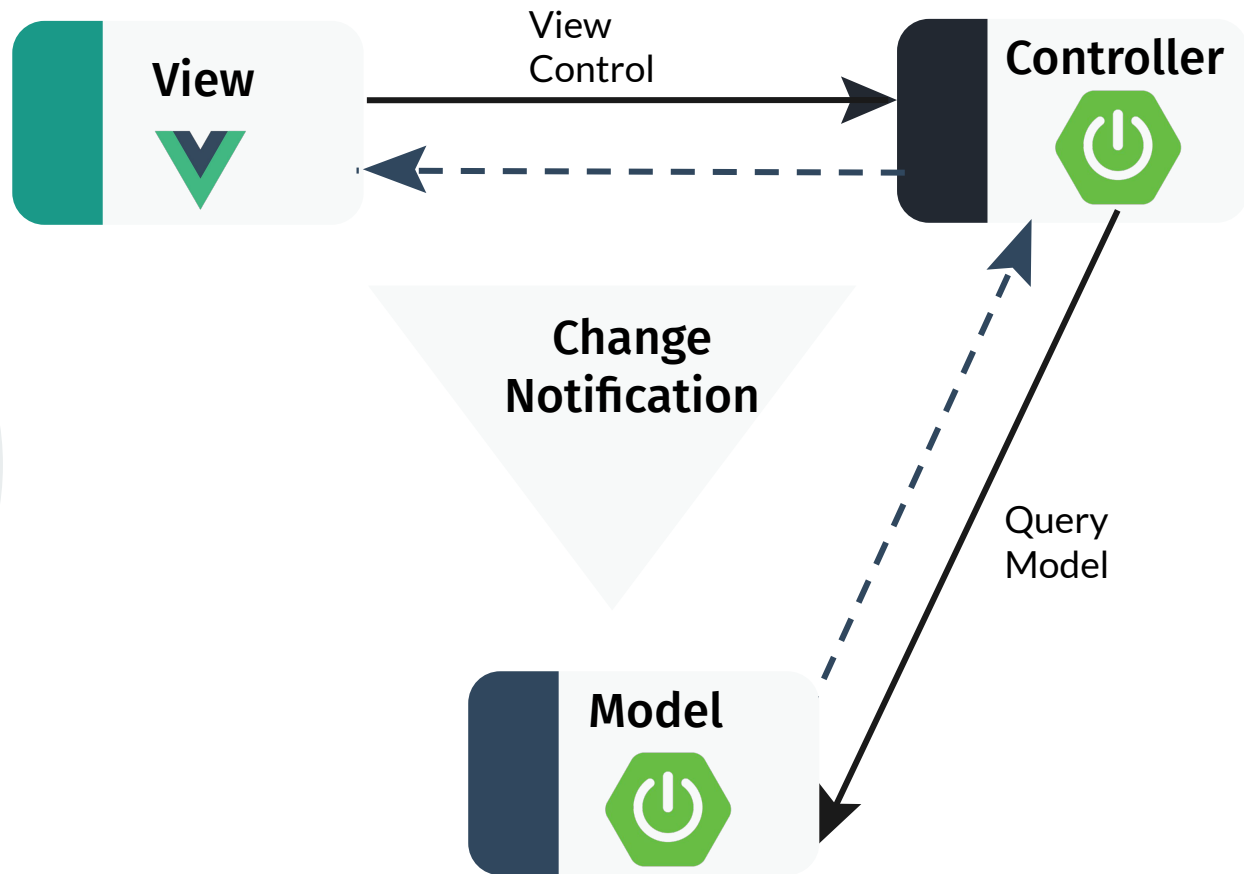


Figure 1 - System Diagram

Software Design Patterns



Technology

Microsoft Azure

Cloud development environment



Confluence

Development documentation.

Visual Studio Code

Source code editor.



Github

For version control and source repo.

Microsoft SQL Server

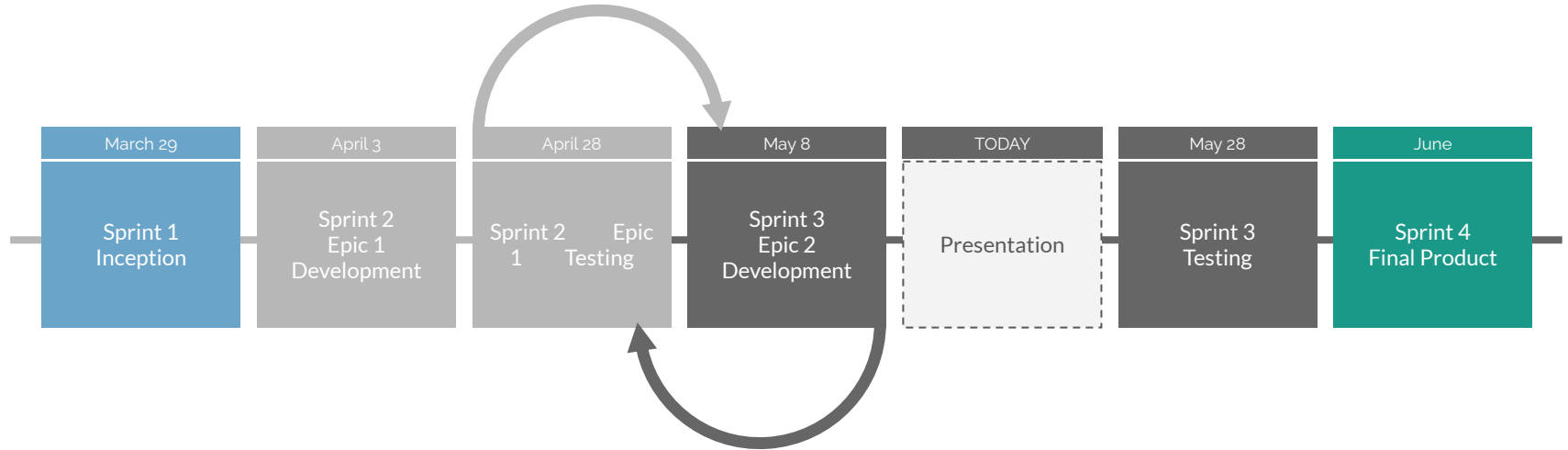
Database management system.



Trello

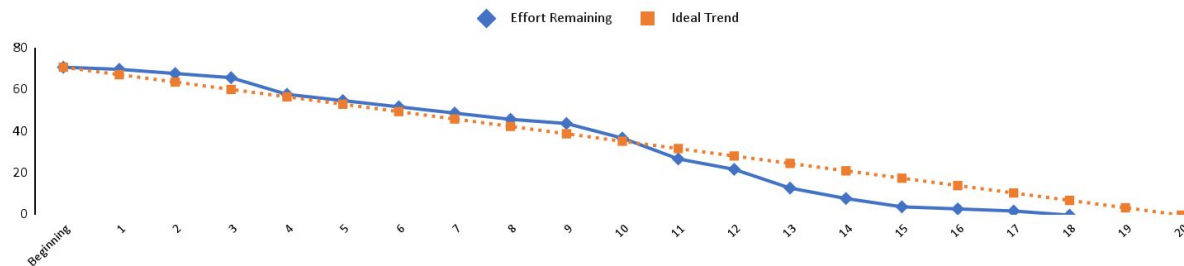
Sprint task tracking.

Timeline



Project Management (Completion status)

Burndown Chart Sprint 2



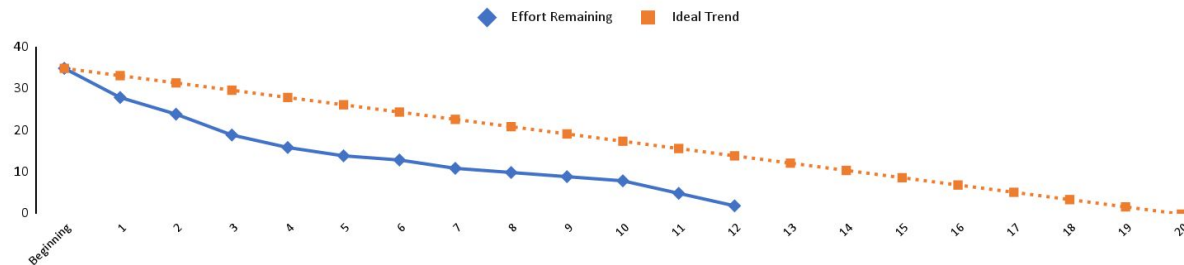
Point Done

71

Stories Done

8

Burndown Chart Sprint 3



Point Done

35

Stories Done

5

Quality Management

Coding Standard

Camel case. Avoid duplicate.



Code Review

According to the coding standard, and logic.



Version Control

Github.



Acceptance Testing

Client meeting.



Unit Testing

Correctness of the method.



UI Testing

Manual testing.

Persona: Eric



Demographic

♂ Male 30 years

📍 Melbourne

Single

Auditor

\$70000

Motivation

- Use the system to improve the working efficiency.

Goals

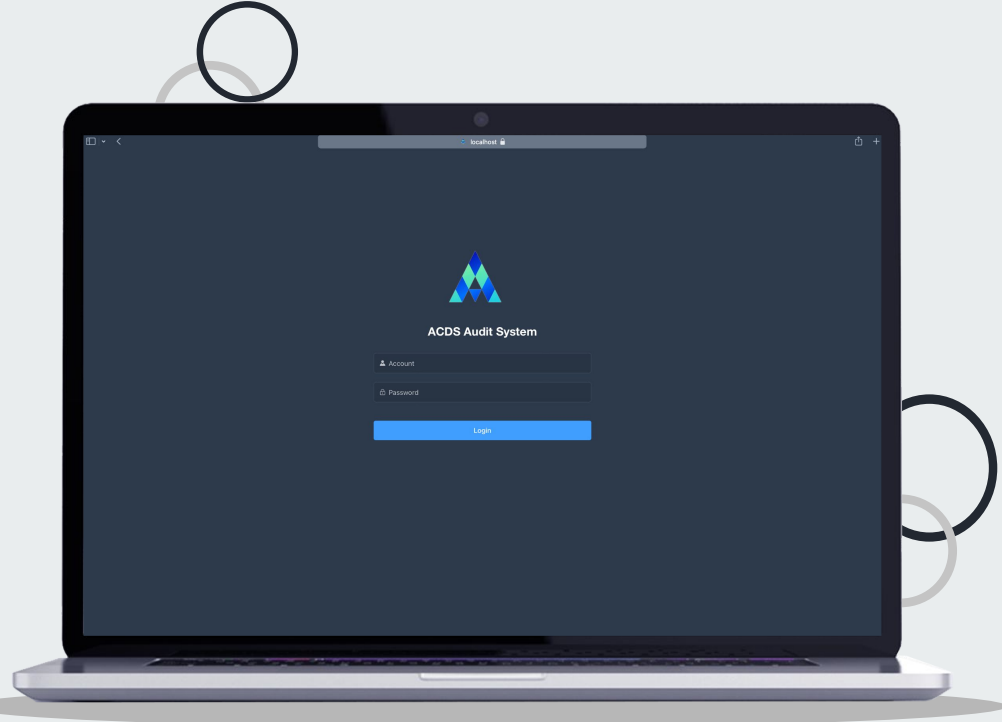
- Upload Excel files
- Review previous audit data

Fustractions

- The system is lack of responsiveness
- The previous audit data is invisible or incorrect.

As Eric ...

- ✓ Login in to the system
- ✓ Change password
- ✓ Upload Audit Case
- ✓ Name search audit case
- ✓ Date search
- ✓ Audit status (operation)
- ✓ Lookup identification
- ✓ Do live Calculation and store user input
- ✓ Check the LookUp Table



01

Information system design.

02

Save pre-audit Excel file to database.

03

Basic audit calculation.

04

Deal with the security issues.



In Scope

Out of Scope



01

On-going operation and system maintenance.

02

PDF report generator.

03

On-site deployment.

04

UI improvement.

Final Product



1

User Guide

To assist users in using a our product.

2

Developer Handover

An handover documentation for future develop.

3

Project Documentation

An exported confluence dev team page.

4

Source Code

The authorized Github repository.

5

Running Instance

An deployed instance used for demo.



Discussion