

Day Health Planner Interim Presentation

Team 4 Your Health

Sponsor Overview

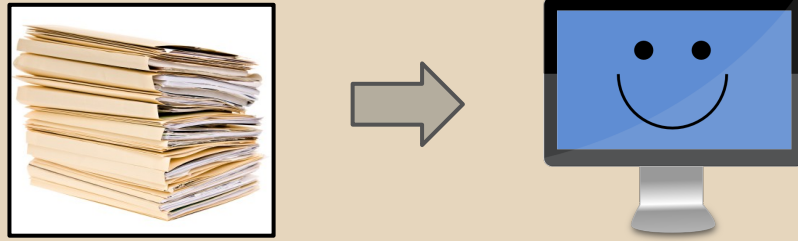


Provider of a variety of healthcare services

Local to Rochester

Require specially tailored solutions for
Day Health Program

Project Overview & Scope



Major Project Components

- Clinician Portal-
- Database-
- Session Sign In-

Team Roles



**Eric
Majchrzak**

-
Group
Coordinator

-
Database



**Calvin
D'rozario**

-
Website
Coordinator



**Peter
Buttler**

-
ScrumMaster



**Zachary
Nielsen**

-
Design
Coordinator

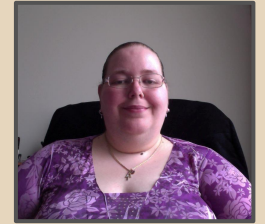
-
Source
Control



**Daniel
Hudy**

-
Customer
Representative

-
Session
Application



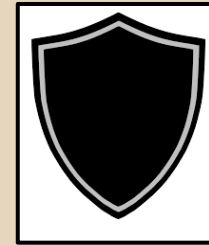
**Karen
Snavelly**

-
Testing

Risks and Management

Major Risks

- Fingerprint Scanner
- Deploying Database
- Shorter project time span



Risks were **identified** and assigned a **mitigation strategy**.

Initial Methodology

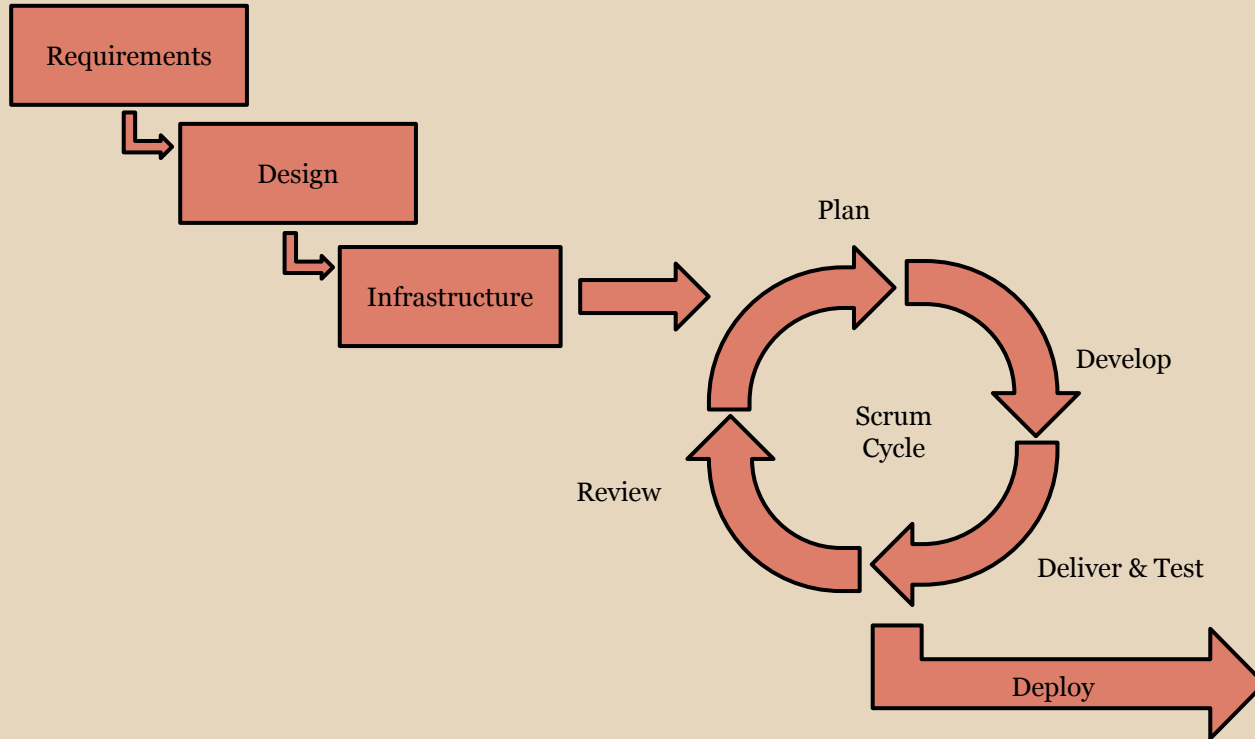
Full Scrum Process

- Stories, tasks, points, sprints

Did not work

- We needed a more traditional approach to Requirements and Design

Methodology Re-Work



Requirements Gathering

- Frequent customer meetings
 - On-site visits
- Heavy focus on SRS
 - Many Use Cases
- Required multiple customer artifacts
 - Many of our design decisions centered around these

Major Requirements

- **Functional**
 - Handle multiple documents
 - Maintain patient care plans
 - Tracking of patient billing
 - Maintaining accurate patient attendance
 - Generate statistical reports
- **Non-functional**
 - HIPAA Security Compliance
 - Usability

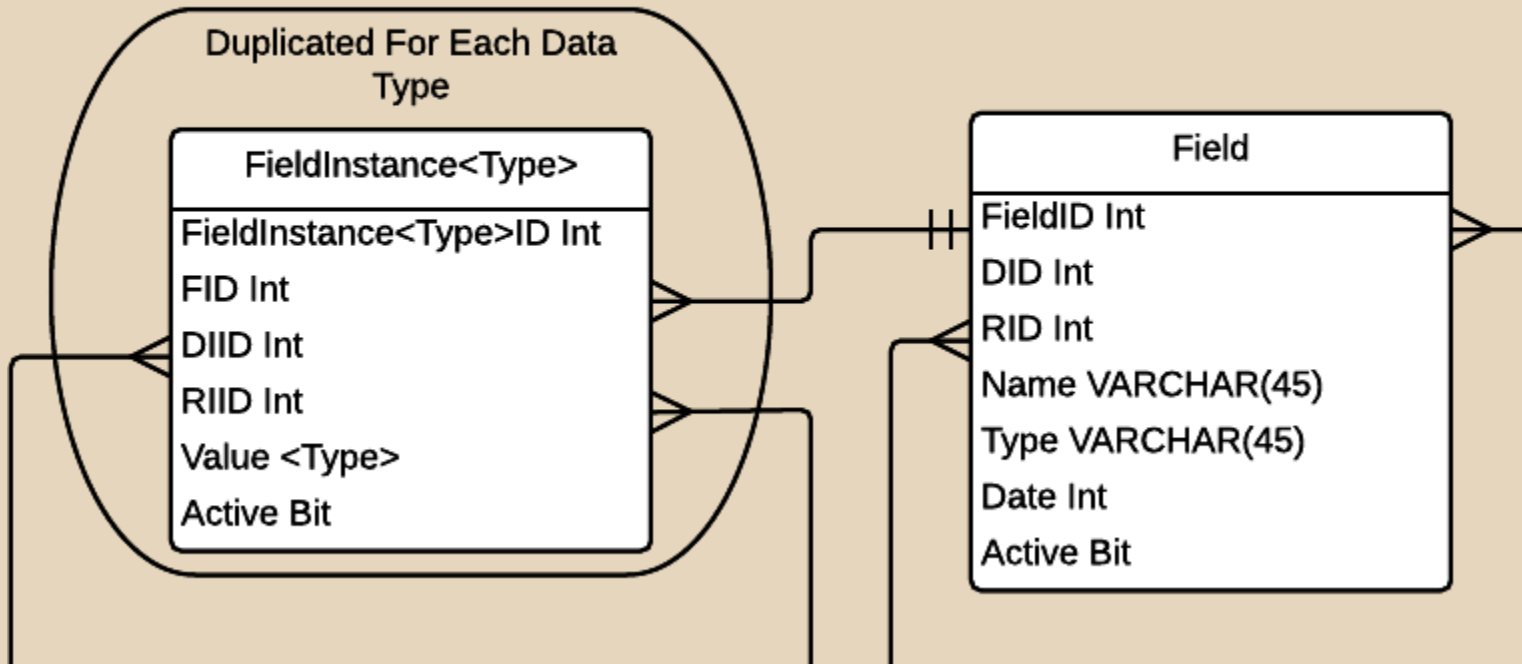
Requirements Analysis

- Flexible Database Design
 - Accomodate evolving document types
- Easy integration of an external application
 - Fingerprint scanner
- Web based
 - Platform independent

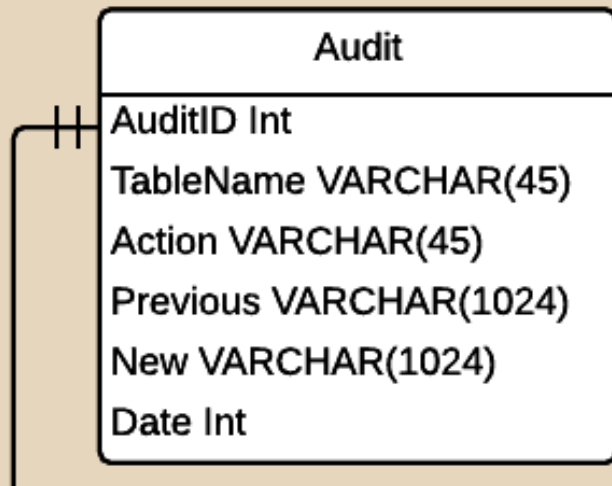
Data Driven Design

- Maintain Documents
 - Variable Tracked Data
- Run Statistics
- Auditing

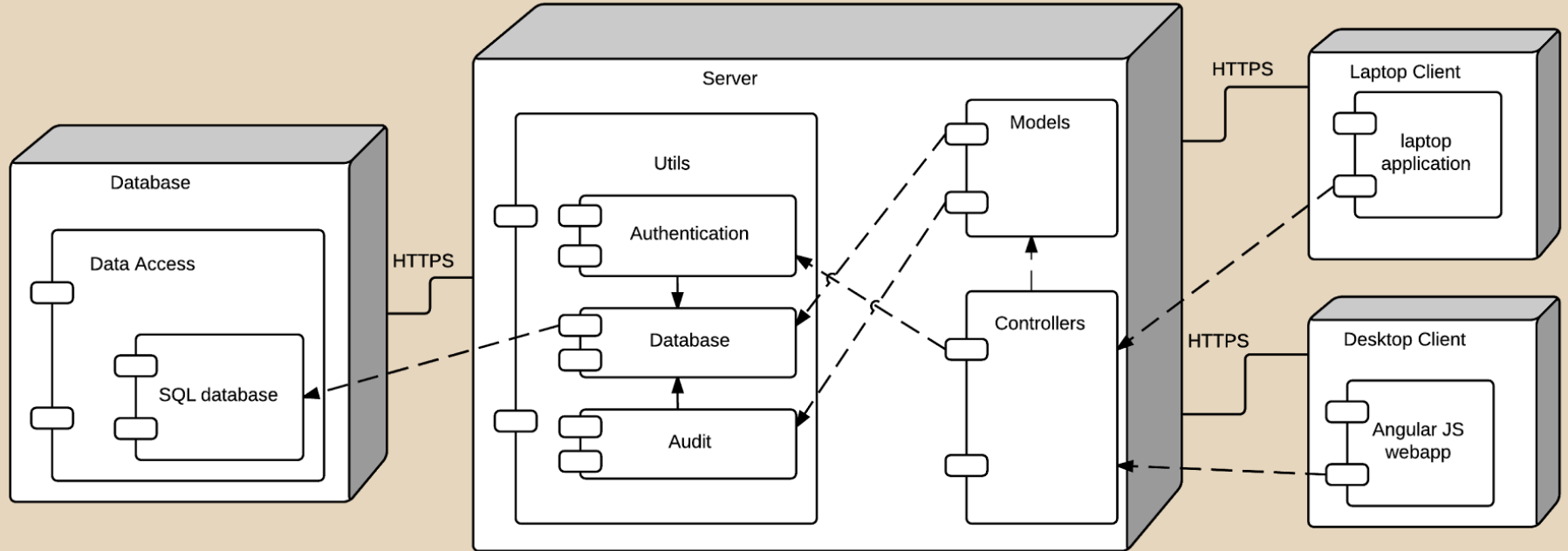
Database Design Decisions



Audit



Original Architecture & Plan



Technologies

Tech Stack



Dev Tools

maven

KARMA



Other Technologies



Demo

Fingerprint Scanner

Ordered
a Scanner



Didn't Get
Access to SDK



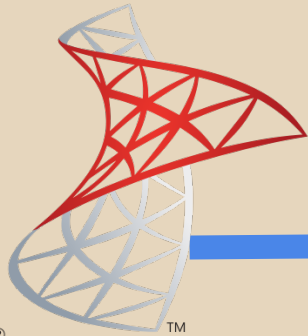
Mitigation
Solution:



Integration Problems

Database

Spring



Microsoft®
SQL Server®

Testing

- Integration Testing
 - Fingerprint Scanner
 - Database Connection Issues



- Usability Testing
 - End User Technology Skill Level
 - Strongly Stressed Requirement from Sponsor



Plan for Second Semester (Summer)

- Starting Scrum
 - Deliver New Features Every Sprint
- Deploy Key Features
 - Statistics
 - Billing
 - Session Application Integration
 - Document Templates
- RIT Required Deliverables

Questions?