

# Adagio Health

## Executive Summary

### **Community Partner**

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### **Student Consulting Team**

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## **Background**

Adagio Health is a healthcare non-profit organization that provides health and wellness services to a large portion of Western Pennsylvania, and parts of Ohio and West Virginia. They have been around for over 45 years, with over 100,000 patients currently receiving care. Adagio's services range from cancer screenings to STD testing, all the way to outreach and education projects in local communities.

The Information Systems team worked directly with senior members of Adagio's Cancer Screening Program, as well as their IT team. The IT team provides technical assistance to the entire organization and will be responsible for maintaining the system once the project is over.

## **Project Description**

### **Project Opportunity**

Currently, Adagio uses a database called Prequel to store all patient and provider information related to their cancer screening programs, as well as export vouchers to patients so that they can receive free cancer screenings. However, basic database functionalities like sorting, filtering, and searching are lacking or underdeveloped. Also, this last year, Pennsylvania updated to a new database called MED-IT which Prequel can no longer properly communicate with. This is causing problems for Adagio employees when they are trying to pull in information or records from MED-IT to run financial and demographic reports. It is also directly impacting healthcare providers in the field, since they are being forced to interface with both databases, when only one should be sufficient.

### **Project Vision**

Our team initially planned to build an improved database system that could successfully integrate with data from the Pennsylvania state database MED-IT. This system would have an emphasis on simplicity, privacy, and accuracy in terms of information management. It would enable seamless importing and viewing of health data as well as work well with Adagio's billing systems.

## **Project Outcomes**

The team first worked with the client to determine thorough but feasible system requirements. Then, in order to ensure the operability of a new system with MED-IT data, the team developed a new database schema and structure. Building on this database, they laid the initial groundwork for an application to replace Adagio's current system. The system currently has authorization and authentication functionality as well as information management for a variety of entities.

## **Project Deliverables**

The final deliverables that were delivered to Adagio Health include a Github repository with the .NET application code as well as an Entity Relationship Diagram that illustrates the new database schema. To supplement future work, the team also delivered a guide on how to further develop the application as well as considerations for data migration and a list of incomplete features.

## **Recommendations**

Although the team managed to port over many functionalities from the current Adagio system, there is still much work to be done. Our team recommends that Adagio temporarily hire a .NET developer to finish building out the required features that are integral to the usage of the application. Although the IT analyst at Adagio knows .NET, he has many roles throughout the organization and is too important to commit his time to development. Therefore, a temporary hire is the best option to ensure the success of a new system and increased capacity for the cancer screening program at Adagio Health.

Another recommendation we have is for Adagio to hold a small workshop once the application goes live, in order to ensure that users of the current system are not confused by the new design and interaction elements that will be employed going forward.

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## **Student Consulting Team**

**Brandyn Amado** served as the client liaison. He is a third-year student majoring in Information Systems with a minor in Computer Science. He will be interning at the Vanguard Group this summer as a software engineering intern.

**Dillan Gajarawala** served as the quality assurance lead. He is a third-year student majoring in Information Systems with a minor in Business Administration. He will be interning at Amazon Web Services this summer as a software engineering intern.

**Kailas Shekar** served as the project manager. He is a third-year student majoring in Information Systems. He will be interning at Amazon this summer as a software engineering intern.