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Woodline Domain

Abstract

Woodline Domain is a software solution for our client, *Woodline Interiors*, serving as a project management system.

The solution allows for the tracking and management of client projects by company employees.

It should also allow employees and administrators to analyze project progress and general company performance information through individual and collective project data.

Introduction

Woodline Interiors, the client for this software solution, builds European-style furniture for clients by utilizing an automated process.

Our client does not currently have a system to manage projects which has reduced their productivity.

To further streamline client projects, the client has come to our group for a project management solution.

Requirements Research

To determine important requirements as soon as possible, our group questioned the client through face-to-face and digital communication as well as with a questionnaire before the design process.

From the requirements collection process, holistic details such as the form of the application and possible architectures and frameworks were developed.
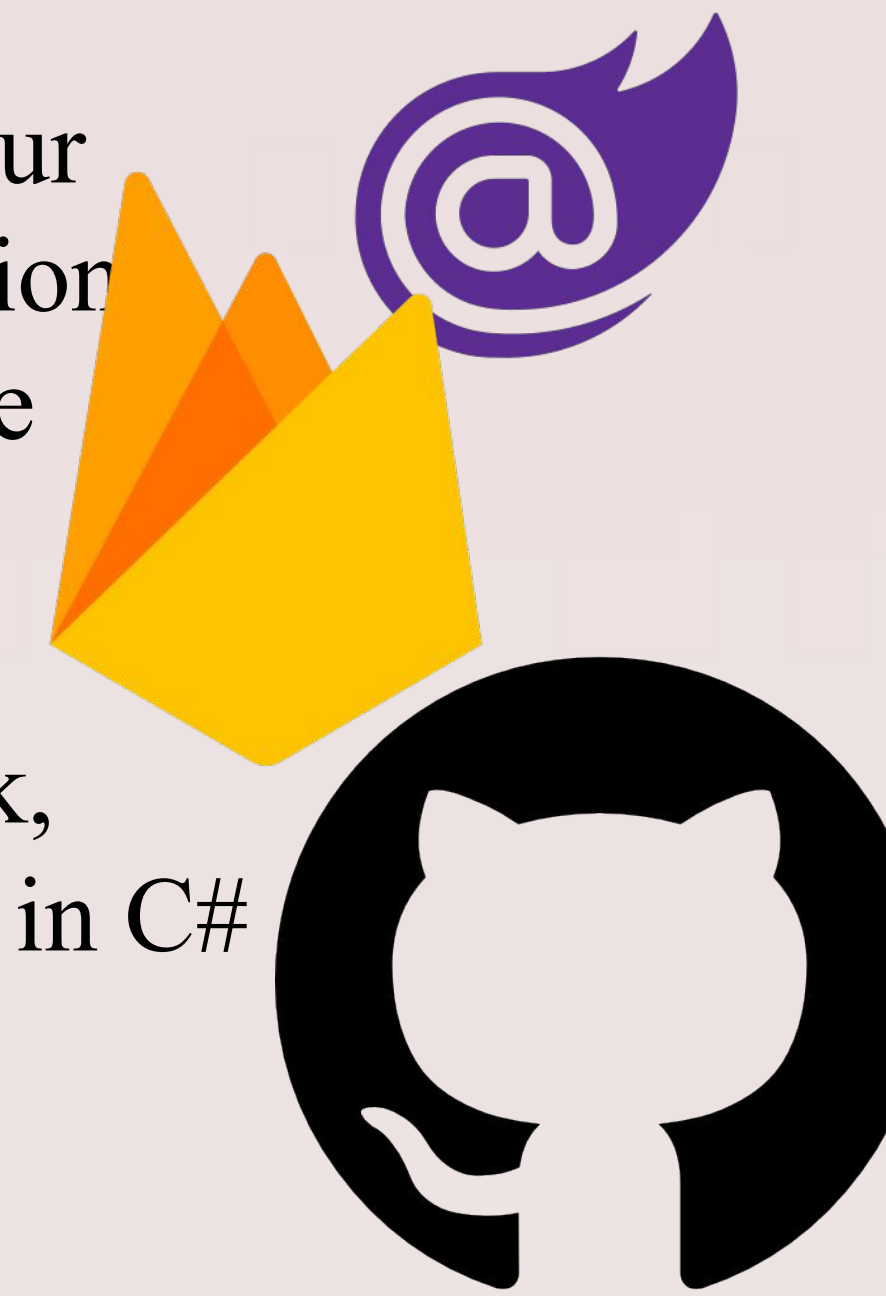
Finally, through prototypes, our group was able to develop detailed requirements to influence significant design decisions.

Design Methodology and Frameworks

Based on the requirements collected from our client, our framework revolve web-application development with Windows as the exclusive deployment platform.

Using the Windows-native .NET framework, Blazor serves to simplify web development in C# and .NET.

Blazor services are paired with Firebase for relational database storage and Github for source code repository management and source version control service. Bootstrap is used for quick front-end development.

Solution

Along with prototypes and solution-related documents, we currently have a functional software solution that provides a majority of the functionality required by the client such as project registration, management, employee and client registration, login functionality, and document recording.

Screenshot showing project view from current solution

Solution (Cont.)

Minor functionalities, such as in-app chat services and help page are currently being developed; all major requirements and most minor requirements are either fully implemented or in the testing-debugging phase. Other future features require discussion for further releases.

Screenshot showing employee view from current solution

Conclusion

Our software solution serves as a simple and direct way of managing client projects and measure holistic project productivity.

Most modules are functional and the software should be prepared for deployment for in-field use soon.

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