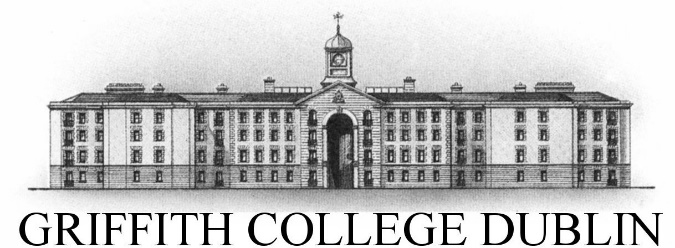
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Single page app

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# Introduction

## Description of the project and purpose of document (1-2 paragraphs)Front-end functionality

This project is a web platform designed to provide feedback and expert advice for individuals undertaking home renovation projects. Whether users are dealing with a leaking sink, constructing a wooden floor, or planning a complete bathroom renovation, the platform facilitates a community-driven environment where both professionals and DIY enthusiasts can share their knowledge and offer guidance. The application features functionalities that enable users to post questions, receive detailed feedback, and interact with experts and other users, creating a valuable resource for home improvement projects.

The platform is built using Angular for the front-end, with an Express backend, and a MongoDB database to store user data and questions. MongoDB is chosen for its scalability and comprehensive documentation. The front-end is deployed on StackBlitz, providing an accessible and interactive environment for development and testing. The Express backend is deployed on Render, ensuring robust and scalable server-side operations. The purpose of this document is to outline the front-end functionality of the platform. It details the structure and components of the application, explaining how each part contributes to the overall user experience. By providing a comprehensive overview, this document serves as a guide for developers and stakeholders to understand the implementation and usage of the front-end features, ensuring a consistent and efficient development process.

## Common features

The web platform encompasses a variety of common features aimed at providing a seamless and user-friendly experience for individuals seeking feedback and expert advice on home renovation projects. These features include:

* User Registration and Authentication:

Allows new users to create accounts and existing users to log in securely, ensuring personalized experiences and data security.

* Question Posting:

Enables users to post detailed questions about their renovation projects, including descriptions, images, and other relevant information.

* Expert and Community Feedback:

Provides a system for experts and community members to offer advice, suggestions, and solutions to posted questions, facilitating collaborative problem-solving.

* User Profiles:

Allows users to manage their personal information, view their activity history, and customize their settings.

* Question Management:

Features a dashboard for users to view, edit, and manage their posted questions, track responses, and engage with the feedback provided.

* Search and Navigation:

Includes robust search functionality to help users find relevant questions and answers quickly, along with intuitive navigation through different sections of the platform.

* Responsive Design:

Ensures that the platform is accessible and user-friendly across various devices, including desktops, tablets, and smartphones.

* Comment and Discussion System:

Facilitates ongoing discussions through comments, allowing for detailed follow-up questions and interactions between users and experts.

* Ratings and Reviews:

Allows users to rate the quality of feedback received, helping to highlight valuable contributions and maintain high-quality interactions.

These common features work together to create a comprehensive and engaging platform for home renovation enthusiasts, ensuring that users can effectively seek and provide assistance for their projects.

## Home page

The home page serves as the entry point to the web platform, offering users a central hub from which to navigate and engage with the various features and functionalities. In line with the platform's focus on community-driven interactions and knowledge sharing, the home page is designed to provide immediate access to the most critical aspect of the site—the community's questions.

Upon accessing the home page, users are directly redirected to the "All Community Questions" section, where they can browse through a curated list of questions posted by fellow community members. This strategic decision is based on the understanding that the heart of the platform lies in the collective wisdom and expertise of its user base. By prioritizing easy access to community questions, users can quickly find relevant topics, offer assistance, and participate in discussions, fostering a vibrant and collaborative environment for home renovation enthusiasts.

Additionally, the home page may feature highlights of recent or popular questions, along with relevant announcements, updates, or featured content to enhance user engagement and facilitate exploration of the platform's offerings. Overall, the home page serves as a dynamic gateway to the platform's community-driven ecosystem, empowering users to connect, learn, and contribute effectively to the shared goal of home improvement excellence.

# Back-end functionality

## How to log in and make changes

## A screenshot of a computer Description automatically generated

## A screenshot of a computer Description automatically generated

## A screenshot of a computer Description automatically generated

## User Groups/ Permission

## A screenshot of a computer Description automatically generatedA screenshot of a computer Description automatically generatedA screenshot of a computer Description automatically generated

## Post Question A screenshot of a computer Description automatically generated

## Answer Question A screenshot of a computer Description automatically generated

## Filter out questions A screenshot of a computer Description automatically generated

## Approve answers

## Rate answers

## UpvoteA screenshot of a computer Description automatically generated

## List answers A screenshot of a computer Description automatically generated

## SearchA screenshot of a computer Description automatically generated

## Create comment

A screenshot of a computer

Description automatically generated

# Design specifications

## Inspired by

We drew inspiration from the concept of creating a platform that fosters a sense of comfort and professionalism for individuals engaged in home-related work, such as renovations. While there wasn't a specific source of inspiration, we aimed to capture a soothing atmosphere through a light blue color theme. This choice was deliberate to evoke a sense of calmness and appeal to both professional and casual users, fostering a welcoming environment conducive to their work activities within their homes.

## SitemapA screenshot of a computer screen Description automatically generated

## Wireframe templates

## Colour

We chose a palette consisting of various shades of blue, gray, and white/black. The different blues provide a calming and professional feel, while gray adds a touch of neutrality and sophistication. The white and black elements offer contrast and clarity, ensuring a clean and appealing design.

## Fonts

We opted to use the default font because it effectively met our needs, providing readability and simplicity without the need for a specialized typeface.

## Photo or image treatment

/

## General style

Our design embraces a soothing and professional aesthetic, using a light blue color theme to create a welcoming and calm atmosphere. This choice is intended to appeal to both professionals and casual users engaged in home-related work, such as renovations. The overall style focuses on simplicity and clarity, with a neutral palette of blues, grays, and white/black, and utilizing default fonts to ensure readability and ease of use.

# Usage examples

**Getting Feedback on a Leaking Sink Repair**

Scenario: A homeowner notices their kitchen sink is leaking and wants to ensure their DIY repair will be effective.

Usage: The homeowner uploads photos and a description of the leak and their proposed repair solution. They receive feedback from plumbing experts and experienced DIY enthusiasts, providing tips and confirming the best approach.

**Advice on Wooden Floor Construction**

Scenario: A user plans to construct a wooden floor in their living room and seeks advice on materials and techniques.

Usage: The user posts their floor plan, desired materials, and construction steps. Experts and experienced users provide detailed feedback on the best types of wood, tools needed, and step-by-step instructions to achieve a professional finish.

**Evaluating a Bathroom Renovation Plan**

Scenario: A homeowner is planning a complete bathroom renovation and wants to ensure their design is functional and stylish.

Usage: They share their renovation plan, including layout changes, material choices, and design ideas. Professional interior designers and renovation experts review the plan, offering suggestions for improvements and potential issues to watch out for.

**Fixing a Cracked Wall**

Scenario: A user finds a crack in their living room wall and wants to repair it before it worsens.

Usage: The user posts images of the crack and a description of its development. They receive advice from construction experts on the best materials and techniques for patching the crack and preventing future damage.

**Optimizing Kitchen Layout for a Remodel**

Scenario: A homeowner is remodeling their kitchen and wants feedback on optimizing the layout for better workflow and aesthetics.

Usage: They upload their current kitchen layout and proposed changes. Kitchen design experts and other users provide feedback on the layout, suggesting ways to improve functionality and design coherence.

# Application Structure

Our application is organized into a service component for managing backend routes and nine key components that handle various aspects of the user interface and functionality:

**Service Component:**

Manages the routing and communication with the backend services, ensuring seamless data exchange and functionality across the application.

**Components:**

Register: Handles user registration, allowing new users to create an account.

Login: Manages user authentication, enabling existing users to log in.

Create-question: Provides an interface for users to post new questions about their renovation projects.

Home: Serves as the landing page, displaying an overview of the platform and featured content.

Navbar: A navigation bar that provides links to the main sections of the website, ensuring easy access and user-friendly navigation.

My-question-list: Displays a list of questions posted by the logged-in user, allowing them to track their inquiries and responses.

Profile: Manages user profile information, enabling users to view and edit their personal details and settings.

Question-detail: Shows detailed information about a specific question, including user comments and expert feedback.

Question-list: Displays a list of all questions posted on the platform, allowing users to browse and find topics of interest.

This structure ensures a clear separation of concerns, making the application modular, maintainable, and scalable.

# Database Structure

# The project timeline

About a month ago, we gathered for a brainstorming session to hash out the details. We discussed everything from how to set up the database to ideas for the backend and frontend. After sorting out the ideas, we kicked off development last week, diving headfirst into bringing our ideas to life. It's been a collaborative effort, with all of us pitching in to make sure we're on the same page and building something awesome together.

# Reflection on how the project went

Reflecting on the project, we encountered some challenges with communication and collaboration. At times, coordinating tasks and aligning our efforts proved to be a bit tricky. We faced difficulties in effectively conveying ideas and ensuring everyone was on the same page, which occasionally led to misunderstandings and delays in progress. Despite these challenges, we recognized the importance of open communication and actively worked towards improving our teamwork and coordination as the project progressed. Through ongoing discussions and adjustments, we were able to overcome these obstacles and ultimately deliver a successful outcome.