BuildingBug

Luís Gonçalves | Rui Magalhães

Graduation in Computer Systems Engineering

Supervisor: Joana Vilas Boas

▶ BACKGROUND

Observing the myriad issues that occur nowadays, such as structural problems, mold, and leaks, it became evident that an effort from governments, communities, and the private sector was imperative to ensure decent living conditions for all. So, the conception of an application to solve the problem that homeowners face whenever they want to repair a "washing machine" , for example, was our goal.
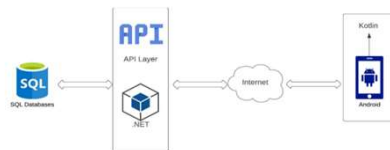
The application also benefits workers as they can find available services to undertake. By providing a platform for repair and renovation services, professionals have the opportunity to discover a variety of jobs that match their skills.

▶ OBJECTIVES

The objective of this app is to simplify the process of finding qualified professionals for home repairs and renovations. Through transparent cost estimates, the app helps homeowners plan their budgets effectively. Furthermore, by incorporating user reviews, the app enhances the quality of work, enabling informed choices.

▶ METHODOLOGY

Our development methodology is built on a strategic use of technologies:

- SQL Server for database management
- ASP.NET for the API
- Kotlin for the mobile app

To streamline our development process, we rely on Microsoft Project for task allocation. Our methodology unfolds through well-defined sprints, each lasting approximately three weeks.

▶ RESULTS AND CONCLUSIONS

The BuildingBug APP has evolved into a practical solution for small house reparations in Portugal. With its user-friendly interface, the app simplifies the process of budget estimations, user reviews, and convenient scheduling for small repairs. Positive user feedback provides the app's success in making home improvements accessible and stress-free. In conclusion, the home repair app stands as a valuable tool, providing an efficient platform for essential repairs and improvements in the housing sector.

▶ BIBLIOGRAPHY

Figma | "Figma: The Collaborative Interface Design Tool"
Figma, 2022, www.figma.com

Kotlin Documentation | : "Kotlin Programming Language"
Kotlin Foundation,
https://kotlinlang.org/docs/home.html
https://developer.android.com/kotlin?hl=pt-pt

SQL Server | Database:
Microsoft, 2023, https://learn.microsoft.com/en-us/sql/?view=sql-server-ver16

Microsoft Azure | " Azure Cloud Services "
Microsoft, 2023, https://learn.microsoft.com/en-us/azure/?product=popular

ASP.NET | "Open-source web framework for .NET "
Microsoft, 2023, https://learn.microsoft.com/en-us/aspnet/core/?view=aspnetcore-8.0

CONTACTS
- a22300@alunos.ipca.pt (Rui Magalhães)
- a18851@alunos.ipca.pt (Luís Gonçalves)