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Project Report

“SideChef” Cooking Recipes Application

**Application development for mobile devices**

**Group 10:**

David Postolea

117738

Hugo Bessa 113783

Águeda, March 15, 2024

Degree in Information Technologies 2nd Year – 2nd Semester

Thanks

This project represents the culmination of a long journey and is the fruit of both of their individual efforts. We recognize that we would not have achieved this feat without the support and invaluable contribution of the people around us.

We would like to express special thanks to Professor Gonçalo Marques, for his insightful guidance and tireless dedication throughout this mobile device project. His expert knowledge and guidance were essential in shaping our approach and achieving our goals.His wisdom and competence in supervision were fundamental to the completion of this project.

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# Introduction

## System overview

Contemporary gastronomy is going through a digital revolution, driven by the increasing integration of technology into our daily lives. Mobile applications play a crucial role in this transformation, making it easier to access a wide range of recipes, cooking tips and practical tools that make the kitchen experience more enjoyable and inspiring. In this sense, this report proposes to analyze and explore in depth the SideChef application, a mobile platform designed to satisfy the needs and demands of culinary enthusiasts around the world.

SideChef is more than a simple recipe app, it's a complete culinary ecosystem that combines a vast collection of high-quality recipes with intuitive tools and personalized features. Upon entering the app, users are immersed in a gastronomic universe, where they can explore a wide range of recipes from around the world, find inspiration for new creations and learn culinary techniques through detailed instructions.

Among the essential features of the SideChef application are user registration and login, allowing for a personalized and continuous experience. The advanced search functionality allows users to find specific recipes name, while the detailed ingredient and preparation view provides step-by-step guidance for each dish. Favorite recipe make it easy for users to organize and access their favorite recipes.

## Client

When developing the SideChef application, it is crucial to understand the users who interact with this digital culinary system. These users are represented by culinary enthusiasts, from amateur cooks to professional chefs, who turn to the application in search of inspiration, learning and organization of their gastronomic experiences. The application seeks to offer an intuitive and captivating interaction, responding to users' needs, from the availability of a wide selection of quality recipes to the offering of intuitive tools for organization and quick access to information about dishes.

## Goals

The objectives of the SideChef application focus on providing a complete and enriching culinary experience for its users. These objectives range from offering culinary inspiration through a wide selection of recipes, to facilitating the learning process through detailed instructions and explanatory videos. Furthermore, the application seeks to provide intuitive features that facilitate navigation and personalization of the user experience. It also aims to encourage interactivity and sharing among users, creating a culinary community where they can inspire each other and share their gastronomic experiences.

# Methodology

## SDLC Methodology

When implementing the SideChef application, we chose to follow the SDLC methodology, namely the Waterfall model. This model is characterized by a sequential approach, where each phase of development - such as analysis, design, implementation, testing and maintenance - is carried out in a linear and sequential manner, without significant overlap between the stages. This way, each phase is completed before moving on to the next, providing a clear and defined structure for the software development process. The choice of this model was based on the specific characteristics of the project and the needs identified during the initial planning phase.

## Time spent

10-03 = 7h

# Requirements Model

## Requirements

### Functional requirements

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Name | Description | Priority |
| 1 | Registration and Login | Allow users to register and log in to the SideChef app. | High |
| 2 | Advanced Recipe Search | Provide advanced search functionality for users to find specific recipes. | High |
| 3 | Detailed Recipe View | Present detailed information about the ingredients, preparation instructions and nutrition of the recipes. | Average |
| 4 | Add to Favorites | Enable users to add favorite recipes to a favorites list. | Average |

### Non-functional requirements

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Name | Description | Priority |
| 1 | Usability | The application must be easy to use and intuitive to ensure a good user experience. | High |
| two | Performance | Ensure that the application responds quickly and without delays, even in high load situations. | High |
| 3 | Security | Protect user data and guarantee the privacy of personal information. | High |
| 4 | Compatibility | Ensure the application is compatible with a variety of devices and operating systems. | Average |
| 5 | Reliability | Ensure that the application is stable and does not present frequent failures or errors. | High |
| 6 | Efficiency | Effectively utilize device resources to ensure optimized performance. | Average |
| 7 | Maintainability | Facilitate application maintenance and updates to resolve issues and add new features. | Average |
| 8 | Scalability | Ensure that the application is capable of handling an increase in the number of users and data. | High |

## Use Case Model

### Overview

### Actors

### Use cases

# The app

## Data base

### Overview

### ER Scheme

### Creation script

## API

## REST API

## Application

### Deployment process

### Design

### Activities (application pages)

# Conclusion

# Bibliography