**Purpose**

The results of the requirements elicitation and the analysis activities are documented in the Requirements Analysis Document (RAD). This document completely describes the system in terms of functional and nonfunctional requirements and serves as a contractual basis between the client and the developers.

**Audience**

The audience for the RAD includes the client, the end users, the project manager, and the developers.

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**Document History**

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| --- | --- | --- | --- |
| Rev. | Author | Date | Changes |
| 1 | Moetaz Khelil | 10.06.2022 | First iteration |
| 2 | Leon Körbs | 22.07.2022 | Adapted RAD to match current system |
|  |  |  |  |
|  |  |  |  |

# Introduction

The reservation system has the goal to make it possible to book restaurants after searching for them. As it is a university project the application is very limited to its key functionality.

## Purpose of the system

## Scope of the system

## Objectives and success criteria of the project

## Definitions, acronyms, and abbreviations

## References

## Overview

# Current system

Currently there is no similar reservation system. We developed a completely new application and are not inheriting anything from a prior system.

# Proposed system

## Overview

Currently it is possible to look and search for restaurants on a list or on a map. The user can search and select different criteria. After selecting a restaurant the customer can book a table at most one week in advance. It is possible to book tables for lunch or for dinner.

## Functional requirements

**FR1 Search for restaurants:** The user can search for restaurants on a list and on a map that displays up to 50 restaurants.

**FR2 See restaurant details:** The user can see pictures, ratings and comments of the restaurant as well as opening times and a link to the website.

**FR3 Filter search results:** He can filter the results by the restaurant type, the price category, by distance around a certain location, by the average rating and by free time slots for reservations for specified dates and number of visitors.

**FR4 Reserve Table:** A user can see the times when he can reserve a table in the chosen restaurant. After clicking on the time, the user sees an overview of all tables in the restaurant. He can choose the exact table the free one in the overview and thus reserve the table for the specified number of visitors.

## Nonfunctional requirements

**NFR1 Usability:** The program should be intuitive to use, and the user interface should be easy to understand. Simple interactions should be completed in less than three clicks. Complex interactions should be completed in less than six clicks.

**NFR2 Conformance to guidelines:** The design of the program should conform to the usability guidelines for the chosen operating system.

**NFR3 Backend system:** A backend system with a couple of services that must be used in the program.

### Usability

### Reliability

### Performance

### Supportability

### Implementation Requirements

### Interface Requirements

### Packaging Requirements

### Legal Requirements

## System models

### Scenarios

### Use case model

Diagram, schematic

Description automatically generated

### Object model

Diagram, schematic

Description automatically generated

### Dynamic model

Diagram

Description automatically generated

### User interface

Graphical user interface, text, application

Description automatically generated

Graphical user interface

Description automatically generated with medium confidence

Graphical user interface, website

Description automatically generated

# Glossary