Ghalia

Version 1.0

Revision History

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| **Date** | **Version** | **Description** | **Author** |
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# Introduction

## Purpose

This document describes the creation of the Ghalia application, which provides a list of all available meals in the canteens in Karlsruhe.

## Scope

* Navigation Menu: A hamburger menu that extends from the left side and provides access to the other subsystems of the app
* Mensa List: A selection of the 5 supported canteen locations. Selecting one canteen opens it’s meals list
* Meals List: Here the meal options of the day are displayed, along with their prices and an option to select a different day. Additionally, a nutrition type is provided (vegetarian, pork, etc.)
* Details View: Provides a meal description, an image along with a nutrition score. We may extend the view with further information.

## Definitions, Acronyms, and Abbreviations

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## References

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| --- | --- | --- | --- |
| Title | Date | Publishing organization | URL |
| Source Code Repo | 20.10.2022 | Gahlia | <https://github.com/GahliaDHBW/Gahlia> |
| Blog | 20.10.2022 | Gahlia | <https://github.com/GahliaDHBW/Gahlia/discussions> |

## Overview

The following chapter provides an overview of this project with a vision and a general use case diagram. The third chapter (Requirements Specification) provides more details on the specific requirements in terms of functionality, usability, and design parameters. Finally, there is a chapter with supporting information.

# Overall Description

## Vision

**We would like to develop an easy-to-use Android app with all necessary meal information for the DHBW student.**

## Use-Case Diagram

## Assumptions and Dependencies

SPA: React Native application with Expo framework

IDE: VSCode

Project Management: YouTrack

Version control: Github

Delivery: Expo – Fdroid

Testing: Testing User Interactions – Component Tests - Snapchot Test

# Specific Requirements

This point structured below show the function of the application.

In the coming months, we are going to implement the following steps, to deploy the application.

* Creating the Mockup
* Analyzing the cantinas website
* Testing web scraping libraries
* Reading of the requirement information
* GUI implementation

### Creating Mockup

Figma is going to be the used tool for creating the Mockup for Ghalia application. The Mockup includes all wished to used GUI component, the used fonts, and the used colors.

### Analyzing the cantinas website

The aim of this steps is analyzing the URI of cantinas websites, to find out what the varies endpoint and parameters, so that the canteen locations and daily schedule can be adjusted later.

### Testing web scraping libraries

There are a lot of possible ways to get the wished information form the cantinas website, via multi case tasting, it is possible to figure out what is the best way to get the information.

### Reading of the requirement information

After getting the wished information, the task sorting and parsing the data of it and this the aim of this step

### GUI implementation

All data needs to be styled and via GUI implementation it is possible to convert the mockup in real react native components

## Usability

To make the user as comfortable as possible while using the application, we intend to create the user interface to be as clear and intuitive as feasible. To be sure that the previous aims are already achieved, usability test is also realizable.

# Supporting Information

For any further information you can contact the Ghalia Team or check our Ghalia Blog.

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