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<Iteration/ Master> Test Plan

# Introduction

## Purpose

The purpose of the Iteration Test Plan is to gather all of the information necessary to plan and control the test effort for a given iteration. It describes the approach to testing the software, and is the top-level plan generated and used by managers to direct the test effort.

This *Test Plan* for the DHBWieWarsEssen-App supports the following objectives:

• figure out if all functionalities work

• find out if all wrong inputs are catched

## Scope

Unit-Tests are planned to cover most of the Use-Cases for the front-end.

## Intended Audience

The targeted Audience are Developers working on this Project.

## References

n.a.

# Evaluation Mission and Test Motivation

## Background

The main goal of testing is to be sure, that after small changes the functionalities will still work without problems.

Furthermore to find out where Bugs could possibly hide.

## Evaluation Mission

* find as many bugs as possible
* make sure everything works after changes
* advise about testing

## Test Motivators

The motivation for testing our App with Unit-Test is, that our App has the quality we imagined at the beginning. Another point is time, because it is much faster to test the App with Unit-Test rather then test everything yourself.

# Target Test Items

For testing we decided to test Use-Cases that are linked to the frontend.

# Test Approach

## Initial Test-Idea Catalogs and Other Reference Sources

The section Tested is Front- and BackEnd.

## Testing Techniques and Types

### Function Testing

|  |  |
| --- | --- |
| Technique Objective: | Target: LogIn, Create and Delete Rating |
| Technique: | Unit-Tests |
| Oracles: | * Success * Errormessages |
| Required Tools: | Unit-Test-Interface |
| Success Criteria: | * Server returns success, after sending data * Correct Errormessage gets displayed |
| Special Considerations: | A working Internetconnection |

### 

# Entry and Exit Criteria

## Test Plan

### Test Plan Entry Criteria

Stable Internetconnection.

### Test Plan Exit Criteria

Success from Server or right Error

### Suspension and Resumption Criteria

n.a.

# Deliverables

## Test Evaluation Summaries

The tests are mainly for the Input the User makes.

## Reporting on Test Coverage

Not yet decided

## Perceived Quality Reports

n.a.

## Incident Logs and Change Requests

n.a.

## Smoke Test Suite and Supporting Test Scripts

n.a.

# Testing Workflow

* Unit-Tests in IDE

# Environmental Needs

## Base Software Elements in the Test Environment

| **Software Element Name** | **Version** | **Type and Other Notes** |
| --- | --- | --- |
| Android Studio |  | IDE |
| Android 8.1 |  | Operating System |

## People and Roles

This table shows the staffing assumptions for the test effort.

[**Note**: Add or delete items as appropriate.]

| **Human Resources** | | |
| --- | --- | --- |
| **Role** | **Person assigned** | **Specific Responsibilities or Comments** |
| Test Manager | Thimo | * Plan Test * Code Tests * Do Tests |

# Iteration Milestones

We want to cover all Use-Cases of the frontend

# Risks, Dependencies, Assumptions, and Constraints

| **Risk** | **Mitigation Strategy** | **Contingency (Risk is realized)** |
| --- | --- | --- |
| Problems with Testcode and Steps | Work on more workable Testcode | * Publish new Testcode |
| Code has lots of side effects | Refactor code (Clean Code principles) | publish new refactored tests |

# Management Process and Procedures

n.a.