Requirement Document

## Project Description

Malhalla is a big web shop wherein you can buy anything you can imagine. You can create an account to keep track of your activity on our website (previous searches, purchases). You can also make a purchase as a guest (without making an account) for a good user experience.

## Non-Functional Requirements

**NFR1**: Website must be able to handle 1 million concurrent users (LO3)

**NFR2**: Pages must load within 1 second

**NFR3**: A new user must be able to use the website and perform actions without external help

**NFR4**: Protect data in a GDPR-compliant manner (LO7)

## Functional Requirements

**Must Requirements:**

**FR01**: A frontpage that presents products

**FR02**: The ability to learn more about a product

**FR03**: The ability to order a product as a guest

**Should Requirements:**

**FR04**: The ability to favourite items

**FR05**: A search bar to search products

**FR06**: The ability to order a product as a user

**FR07**: Whenever something is ordered, it should save the order details into a database (LO7)

**FR08**: Setup CI/CD pipeline (LO4)

**FR09**: Implement load testing into CI/CD pipeline (LO3 + LO4)

**FR10**: Deploy anything on the cloud and explain why (LO5)

**FR11**: Make use of cloud services and explain why (LO5)

**FR12**: Automated code quality checks (LO4)

**FR13**: Run website on Docker (LO4)

**FR14**: Implement Role-based access control so it’s possible to split permissions for guests, users, and admins (LO6)

**Could Requirements**

**FR15**: Protect website against DDoS attacks (LO6)

**FR16**: Setup firewall for website (LO6)

**FR17**: Force the use of strong passwords (LO6)

**FR18**: Embrace MFA (LO6)