

Online shopping system

Problem Statement

The current online shopping systems are often complex, unreliable, insecure and lead to poor user experiences.

The statement is to develop a reliable user friendly, and secure online shopping platform that offers a range of products and services.

Introduction

Purpose: The purpose of this document is to give a detailed description of the new Online Shopping system.

Scope: The scope of an online shopping system is to provide a user friendly platform for customers to browse search purchase products.

Overview: This document provides a high level overview of an online shopping system so the user experience and profitability can be maximised.

General Description

The customers are able to place orders, perform transactions in this and the products will be delivered to their doorstep.

Functional Requirements

Problem Statement

User registration and login:

Users shall be able to register and login using correct credentials.

Product search and browser

Users shall search for product and results shall be available in a short interval of time.

Product filtering and sorting

Users shall have the option of filtering the available products.

Order tracking and history

Users shall be able to see details of the previous orders and their products.

Non Functional Requirements

Security: User authentication, data encryption, secure payment processing are required.

Compatibility: compatible with all the major OS, browsers and devices.

Usability requirements: User friendly and intuitive.

Availability: The website shall be available 24/7 and open within seconds of requests.

Performance Requirements:

Response time should be less than 200ms.

Scalability: The system should be easily scalable.

Throughput:

Load Testing: The system should be able to handle 20 percent increase in the load and not breakdown.

Network Latency: The system shall display low latency.

Interface Requirements:

UI: Navigation, layout forms notifications should be properly functioning.

Accessibility: The system should be available and easy to use by partially abled people too.

Language: The system shall be available in all the main languages.

Design Constraints:

Hardware constraints: The system shall work in all standard hardware requirements.

Software constraints: The system shall work in all standard software requirements.

Preliminary Budget and Schedule:-

Playing phase : 5 weeks : \$ 50 000

Design Phase : 5 Phase : \$ 50 000

Development Phase : 10 weeks : \$ 100 000

~~Maintenance~~

Maintenance Phase : \$ 50 000 per year

Total : \$ 250 000