Software Design Specification

# Sustainable Shopping Assistant App - Version 1.0

Prepared by: Team Sustainable Solutions

## Document Information

Title: Sustainable Shopping Assistant App - Software Design Specification

Project Manager: [Insert Name]

Document Version No: 1.0

Document Version Date: [Insert Date]

Prepared By: Team Sustainable Solutions

Preparation Date: [Insert Date]

## Version History

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| --- | --- | --- | --- | --- |
| Ver. No | Ver. Date | Revised By | Description | Filename |
| 1.0 | [Insert Date] | Team Sustainable Solutions | Initial version | Sustainable\_Shopping\_SDS.doc |

# 1. Introduction

## 1.1 Purpose

This document outlines the software design for the Sustainable Shopping Assistant App. It provides technical guidance and documentation for developers, designers, and project stakeholders. The purpose is to offer eco-conscious users a smart, helpful way to find sustainable fashion and lifestyle products via a mobile/web application.

## 1.2 Scope

The scope includes backend architecture, user authentication, product catalog filtering, sustainability tagging, recommendation engine basics, and integration with MongoDB and third-party APIs. This document does not include frontend code, as it is already completed.

## 1.3 Definitions, Acronyms, and Abbreviations

rPET: Recycled Polyester  
JWT: JSON Web Token  
API: Application Programming Interface  
DB: Database  
CRUD: Create, Read, Update, Delete

## 1.4 References

MongoDB Atlas Documentation  
Render Deployment Docs  
Node.js Official Documentation  
Express.js Framework Docs