

# 1. Objective

This document provides an overview of the **core functionalities and workflow** for a SaaS MVP that allows users to upload files, apply basic design tools, and generate structured data outputs. The focus is on ensuring a **streamlined user experience** while maintaining efficient data processing capabilities.

## 2. Core Functionalities (MVP Scope)

### A. File Upload & Image Scaling

- Users upload site images in **JPEG, PNG, PDF, or CAD formats**.
- Users **define a known reference distance** to scale the image.

### B. Basic Drawing & Annotation Tools

- **Users can draw basic elements** over the scaled image.
- **Simple labeling system** to allow users to annotate elements.
- **Basic measurement tool** to estimate distances.

### C. Automated Data Extraction & Calculation

- System processes **basic quantities and dimensions** based on user input.
- **Generates structured data output** in a standardized format.

### D. User-Defined Data Input & Processing

- Users enter **custom input values** to generate **data-driven outputs**.
- System performs **basic calculations based on input data**.

### E. Report Generation & Export

- Generates **structured CSV file** with processed data.
- **Option to create PDF version**.

## 3. User Flow

### Step 1: File Upload & Scaling

1. User uploads an image or file.
2. User sets a **reference distance** for scaling.

## Step 2: Drawing & Annotation

1. User selects **basic drawing tools**.
2. User adds **labels to drawn elements**.

## Step 3: Auto-Processing & Data Generation

1. System **extracts basic calculated values**.
2. User inputs additional data as needed.
3. System generates **structured data output**.

## Step 4: Exporting Data

1. User clicks **Export**.
2. System generates **a structured CSV file or PDF**.
3. User downloads the file for further use.

## 4. Deliverables

✓ **Functional MVP with file uploads, scaling, and basic annotation tools.** ✓ **Basic structured data extraction & processing.** ✓ **CSV export functionality.** ✓ **Minimal UI to facilitate user interaction.** ✓ **Backend for handling file storage & processing.**