SOP Generator - Version 1.0

Description:

An Assembly SOP Generator MVP - a web app that helps manufacturing engineers create professional Standard Operating Procedures.

TARGET USERS:

Manufacturing engineers creating assembly SOPs

USER WORKFLOW:

1. The user fill in the input form
2. The user clicks on a button "Create SOP"
3. The user can then insert pictures (and corrects/adapts text if necessary)
4. The user clicks on a button "export to PDF"

CORE FEATURES:

1. Database management for reusable items (tools, fixtures, parts, safety warnings)
2. SOP input form with 6 sections
   a. Basic Info: Title, part number, creator, approver, language
   b. Database Management: Add/select tools, fixtures, parts
   c. BOM: List of parts needed for assembly
   d. Tools & Equipment: Required tools and fixtures
   e. Safety Requirements: Warnings and precautions
   f. Assembly Sequence: Step-by-step process description
3. LLM API integration for SOP generation
4. PDF export with company branding

DESIGN NOTES:

- Keep UI clean and professional
- Use following brand colors: Primary `#055263` , Accent `#FF7D3B`

- Focus on functionality over fancy design for MVP

- Each form section should be clearly separated

- Database items should be easily selectable/reusable across SOPs