

# Comparative Analysis and Process Design using PM Standards

## Objective

To design and implement a website that consolidates globally recognized project management standards (PMBOK 7th Edition, PRINCE2 and ISO 21500/20502), enabling:

- **Navigation** of standard texts.
- **Comparisons** across standards by topics.
- **Evidence-based recommendations** for tailored project processes

## Scope

### In Scope

#### 1. *Standards Repository & Navigation*

- Upload and store full text of standards in the system.
- Topic wise pdf opening.

#### 2. *Comparison Engine*

- Compare standards by topic (Risk, Stakeholder, Quality, etc.).
- Side-by-side views of sections with deep linking to source text.

#### 3. *Uniqueness Analysis*

- Display unique points among the three standards.

- Deep linking to the source text

#### 4. *Insights Dashboard*

- Display similarities, differences, unique points among the three standards.
- Standards Coverage Map

#### 5. *Process Generator*

- Display similarities, differences, unique points among the three standards.
- Provide summaries and tailored recommendations.

#### 6. *Submission*

- Working prototype with repository and all features.
- Hybrid WBS and process documentation.
- GitHub repository for app code and content.

### **Out of Scope**

- Licensing/paid access to proprietary versions of standards.

## Roles & Responsibilities

- *App Development:*
  - Developed the prototype web application.
  - *Implemented repository and navigation system.*
- *Data & Standards Processing:*
  - Collected PMBOK, PRINCE2, ISO texts.
  - Validated correct sections/pages.
- ***Documentation & Testing:***
  - Wrote project documentation and final report.
  - Verified app navigation and functionality.

## Process & Approach

- **Planning:** Defined project scope and allocated tasks to group members estimated deadlines.
- **Execution:** Parallel workstreams – one focused on coding while other on standards data collection.
- **Verification:** Pages and navigation tested against original standards for accuracy.
- **Collaboration:** GitHub used for version control and accessibility.

## Testing Summary

- Repository search tested with keywords like *Risk*, *Quality*, *Stakeholders*.
- Navigation verified against original PDF page numbers.
- Comparison results cross-checked to ensure correct alignment.
- Dashboard summaries validated with actual standard texts.

## Deliverables

- **Web App on vercel**
- **GitHub Repository:** Containing code
- **Report Documentation:** Including WBS, scope, approach, testing and roles.

# WBS

Made a hybrid WBS :

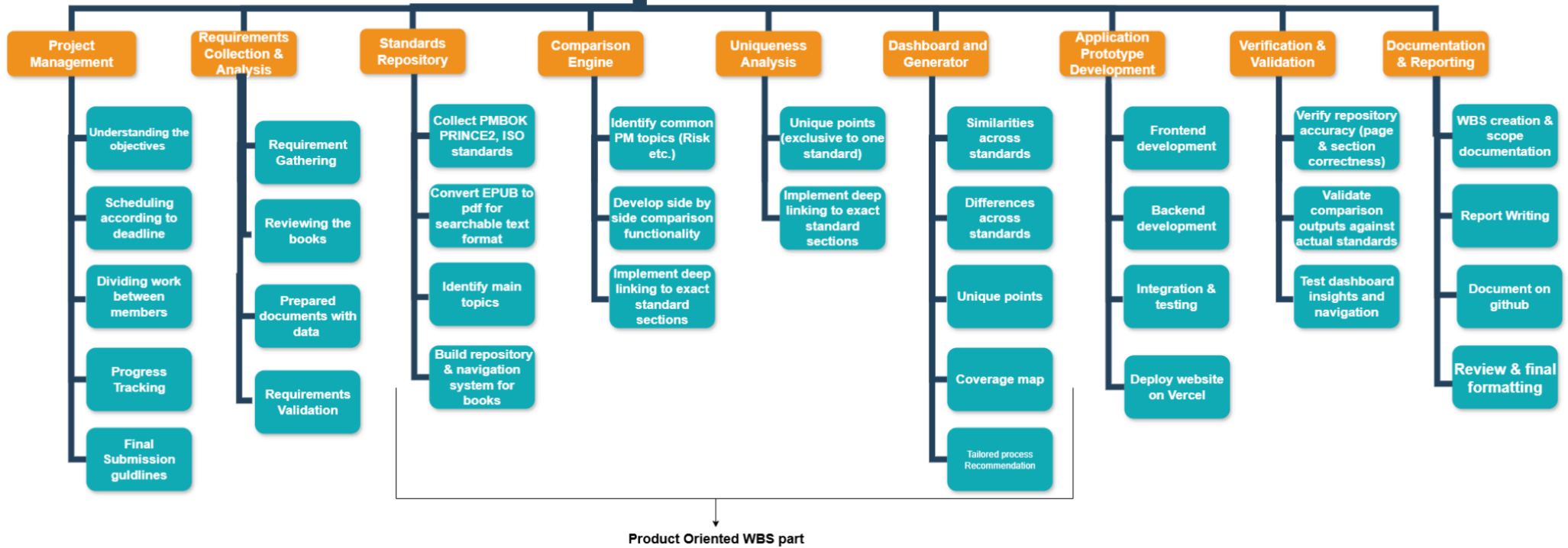
- **Product-oriented** (repository, search engine, dashboard)
- **Process-oriented** (requirements collection, testing, documentation, project management).

The WBS was designed to be manageable (each package assigned to members), independent (modules developed in parallel also in sequence), and measurable (clear deliverables like navigation, comparison and documentation). It also forms the basis for scheduling, cost estimation, testing, and progress control.

Thus the process design is both justified and aligned with PM standards.

WBS can be found on the next page

# Comparative Analysis and Process Design using PM Standards Application



## **Report by Group 9:**

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