1. You're looking to integrate industry standards like **PRINCE2, ISO 10006, ISO 12207, and CMMI** into your **software project management** approach. Below are steps to explain these standards and integrate them into your project:

**1. Understanding the Industry Standards**

**PRINCE2 (Projects IN Controlled Environments)**

* A structured project management methodology widely used in IT and software development.
* Focuses on controlled project environments, clear governance, and stage-based project execution.
* **Key aspects**:
  + Defined roles & responsibilities
  + Business justification throughout the project
  + Continuous monitoring and improvement

**ISO 10006 (Quality Management in Projects)**

* Ensures quality management principles are applied to projects.
* Enhances project efficiency and quality compliance.
* **Key aspects**:
  + Stakeholder involvement
  + Risk-based approach
  + Quality assurance & control

**ISO 12207 (Software Lifecycle Processes)**

* Defines processes involved in **software development, maintenance, and retirement**.
* Establishes a standard framework for software lifecycle management.
* **Key aspects**:
  + Defines primary processes: acquisition, supply, development, operation, maintenance.
  + Emphasizes risk management and validation.

**CMMI (Capability Maturity Model Integration)**

* A process improvement framework from **SEI (Software Engineering Institute)**.
* Helps software organizations improve performance through maturity levels.
* **Key aspects**:
  + Maturity Levels: Initial → Managed → Defined → Quantitatively Managed → Optimizing.
  + Focus on process optimization and efficiency.

**2. Integrating These Standards Into Your Project**

**A. Governance and Project Control (PRINCE2)**

* **Apply PRINCE2 principles** for controlled project management.
* Define roles & responsibilities in your team.
* Use **stage gates** for key decision points.

**B. Quality Assurance & Risk Management (ISO 10006)**

* Implement **quality assurance checklists** at every development phase.
* Conduct **regular audits** to maintain process efficiency.
* Use **risk-based approach** to tackle uncertainties.

**C. Software Lifecycle Management (ISO 12207)**

* Implement **structured development processes** based on the software lifecycle.
* Follow a **defined framework for software updates and maintenance**.
* **Integrate DevOps methodologies** to improve efficiency.

**D. Process Maturity & Optimization (CMMI)**

* Identify your organization's **current maturity level**.
* Gradually **implement standardized workflows**.
* Use **KPIs & performance metrics** to measure improvements.
* Introduce **automation & documentation** to enhance efficiency.

**3. Example: Practical Implementation in Your Web App**

Since you've implemented authentication in your web app, you can take further steps to align with these standards:

1. **Apply PRINCE2**:
   * Define clear stages for feature rollouts (e.g., authentication → authorization → session management).
   * Use **JIRA/Trello** to track progress.
2. **Implement ISO 10006**:
   * Ensure **security reviews** for authentication implementation.
   * Conduct periodic **penetration testing**.
3. **Adopt ISO 12207**:
   * Define software lifecycle processes: **version control, updates, and deprecations**.
   * Maintain **technical documentation**.
4. **Leverage CMMI Principles**:
   * Standardize coding practices (e.g., **CI/CD pipelines**).
   * Continuously improve **error handling, logging, and monitoring**.