

Custom Hospital Patient Tracker App for Odoo 15

Project Approach:

1. Set up the development environment:

- Install Docker and Docker Compose
- Create a docker-compose.yml file to set up Odoo 15 and PostgreSQL

2. Create a new Odoo module:

- Generate the basic module structure
- Define the Patient model in Python
- Create XML views for list and form views
- Update the **manifest.py** file

3. Implement the Patient model:

- Define fields: reference (char), name (char), age (integer), gender (selection)
- Use the `@api.model_create_multi` decorator for creating records
- Implement a method to generate the auto-incrementing reference

4. Create views:

- Develop a tree view for listing patients
- Create a form view for adding/editing patients
- Add menu items and actions

5. Test the application:

- Run the Odoo instance using Docker, Docker Compose & Kubernetes
- Access the web interface and test patient creation and listing

Comprehensive Rubric for Hospital Patient App Tracker in Odoo 15

1. Functionality and Technical Implementation (50 points)

a. Patient Model (0-15 points)

- 15 points: All required fields implemented correctly, including auto-incrementing reference
- 10 points: Most fields present, minor issues with reference or other fields
- 5 points: Several fields missing or major issues with implementation
- 0 points: Model severely incomplete or non-functional

b. Views and User Interface (0-15 points)

- 15 points: All views (list, form, search) implemented with excellent usability
- 10 points: Most views present, good usability with minor issues
- 5 points: Some views missing or significant usability problems
- 0 points: Views largely non-functional or missing

c. CRUD Operations (0-10 points)

- 10 points: All operations (Create, Read, Update, Delete) work flawlessly
- 7 points: Most operations work with minor bugs
- 3 points: Significant issues with one or more operations
- 0 points: Multiple operations non-functional

d. Docker and PostgreSQL Integration (0-10 points)

- 10 points: Perfect setup with Odoo 15, Docker, and PostgreSQL
- 7 points: Correct setup with minor configuration issues
- 3 points: Major problems with integration or missing components
- 0 points: Failure to implement required technologies

2. Code Quality and Best Practices (25 points)

a. Code Structure and Organization (0-10 points)

- 10 points: Excellent organization, follows Odoo best practices
- 7 points: Good structure with minor deviations from best practices
- 3 points: Poor organization, significant departures from best practices
- 0 points: Chaotic structure, no adherence to best practices

b. Comments and Documentation (0-10 points)

- 10 points: Comprehensive, helpful comments and documentation
- 7 points: Good comments, some areas lacking detail
- 3 points: Minimal or unhelpful comments
- 0 points: No comments or documentation

c. Security Implementation (0-5 points)

- 5 points: Proper access rights and security measures in place
- 3 points: Basic security implemented with some gaps
- 1 point: Minimal security considerations
- 0 points: No security measures implemented

3. Presentation and Documentation (15 points)

a. Loom Video Demonstration (0-5 points)

- 5 points: Clear, concise, under 3 minutes, effectively shows all features
- 3 points: Covers most features, minor clarity issues or slightly over time
- 1 point: Unclear, missing key features, or significantly over time
- 0 points: No video or completely ineffective demonstration

b. Project Description (0-5 points)

- 5 points: Well-written, error-free, professional, covers all aspects
- 3 points: Good description with minor errors or omissions
- 1 point: Poor writing, multiple errors, or missing key information
- 0 points: No description or completely inadequate

c. README and Installation Instructions (0-5 points)

- 5 points: Comprehensive, clear instructions for setup and use
- 3 points: Good instructions with minor omissions
- 1 point: Basic instructions, missing critical information
- 0 points: No README or instructions provided

4. Innovation and Extra Features (10 points)

a. Additional Functionality (0-5 points)

- 5 points: Innovative features that significantly enhance the application
- 3 points: Some useful additional features
- 1 point: Minor extra features with limited utility
- 0 points: No extra features beyond basic requirements

b. Performance and Optimization (0-5 points)

- 5 points: Evidence of significant performance optimizations
- 3 points: Some optimization attempts
- 1 point: Basic performance considerations
- 0 points: No consideration for performance

Total: 100 points