

Domain: Expense Submission & Review System

You're building a prototype for an internal tool that allows company employees to submit expenses, and for admins to view them. Your implementation should reflect production-quality practices for validation, file handling, and data integrity — even if the scope is limited.

Objectives

You are expected to:

- Design a basic but complete web-based expense submission and listing tool
- Ensure strong data validation and secure file handling
- Expose submitted data through a structured RESTful API
- Build a minimal user-facing interface
- Demonstrate understanding of Yii2 MVC, migrations, and common backend/REST patterns

Functional Scope

The tool should support:

- Submitting new expense records
- Attaching a supporting file (receipt)
- Listing expenses by user and status
- Accessing the data programmatically via REST API

Technical Expectations

You are free to make design decisions regarding:

- Model relationships and attributes
- Validation rules and error handling
- RESTful structure and response format
- File upload storage logic
- Frontend implementation approach (form-based, Ajax, simple layout, etc.)

Evaluation Focus

- Security: Safe file handling, validation, error handling
- Data Integrity: Proper use of validation, clean DB schema, enums/constants
- Code Quality: Readable, modular, well-structured code using Yii2 / Laravel conventions
- REST Design: Clear structure, consistent JSON output, proper error responses
- Frontend: Functional UI with basic interactivity and layout

Submission Checklist

Please submit:

- GitHub repo or ZIP archive of your code
- README with setup instructions
- Migrations and seeders (or SQL dump)
- Short screen recording (~1-2 min) demonstrating the flow

Time Limit

3 hours. Focus on completeness and code quality over feature bloat. It's okay to leave out minor UI polish or optional features if the core works reliably.