

Technical Assessment Task: Mini-Form Builder

This document outlines a technical assessment task for evaluating the competency of a software development team. The task is designed to be completed by a single developer within 2 to 2.5 days. It requires the use of specific technologies and coding standards relevant to our project. For this task, use GitHub as a repository and share it with these email accounts: ergest@protocolhero.com and steven@protocolhero.com

Task Overview

The task is to develop a **Mini-Form Builder** using Tailwind, Laravel, React.js adhering to the following structured phases. **The primary focus of this task is on code structure, hierarchy, and design patterns to ensure maintainability and scalability.**

Phase 1: Laravel Setup (Docker, Authentication, React.js, Tailwind)

- Set up a new Laravel project with a **Docker-based environment**.
- Use **PostgreSQL** as the database.
- Implement **Internationalization/Localization** support.
- Implement authentication.
- Create **database migrations and models** for the form builder.

Phase 2: Form Builder

- Use React.js to create a dynamic protocol form builder.
- Implement validation for form fields.

Phase 3: UI/UX with Tailwind

- Utilize **Tailwind CSS** and **Shadcn** for responsive UI design.

Phase 4: Render the Generated Form

- Create a view to render the created form.

Testing and Coding Standards

- **Code quality, structure, and hierarchy are of primary importance.**
- Follow **PSR-12 coding standards**, enforced via **Laravel Pint**.

- Improve code quality using **Rector**.
- Enforce **PHP 8.1+ type declarations**.
- Use **strict typing enforcement**.
- Implement **feature tests** using **Pest PHP**.

The screenshot displays a web application interface for a 'Form Builder'. On the left is a dark sidebar with navigation links: 'Form Builder' (with a document icon), 'My Forms', 'Analytics', 'Knowledge Base', 'Help & Support', 'My Profile', and 'Logout'. The main content area is titled 'Create New Form' and includes a breadcrumb trail 'My Forms >> Create New Form' and a 'Publish Form' button. The central workspace shows a form titled 'Untitled Form' with two text input fields labeled 'First Name' (containing 'John') and 'Last Name' (containing 'Doe'). Each field has a three-dot menu icon to its right. Below these fields is a dashed box with a '+ Add New Field' button. At the bottom of the workspace is a search bar with a magnifying glass icon, and a dropdown menu listing form field types: 'Text field', 'Button', 'Dropdown', 'Radio button', 'Checkbox', and 'Switch option'. On the right side of the workspace is a settings panel with three sections: 'Background Color' with six colored circles (the first is selected), 'Font Family' with a dropdown menu showing 'Roboto', and 'Form Labels' with a toggle switch that is turned ON.

In this section you will see an example of the form builder. Its is for illustration purposes just to create an idea of what the task is about.